

# HDCVI PRODUCT SELECTION | 2021 Ver.2

HDCVI Cameras / PTZ / Recorders / Display & Control / Accessories /  
Video Management Software / DORI Distance

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# CONTENTS



16

## HDCVI CAMERAS

Pro Series / Lite Series / Cooper Series / Active Deterrence Series /  
Panorama Series / PoC Series / Micro-size Series

62

## HDCVI PTZ CAMERAS

Pro Series / Lite Series



67

## HDCVI RECORDERS

WizSense 4K Series / WizSense 5MP Series /  
WizSense 5M-N & 1080P Series / WizSense 1080N  
& 720P Series / Cooper-I Series

86

## DISPLAY & CONTROL

92

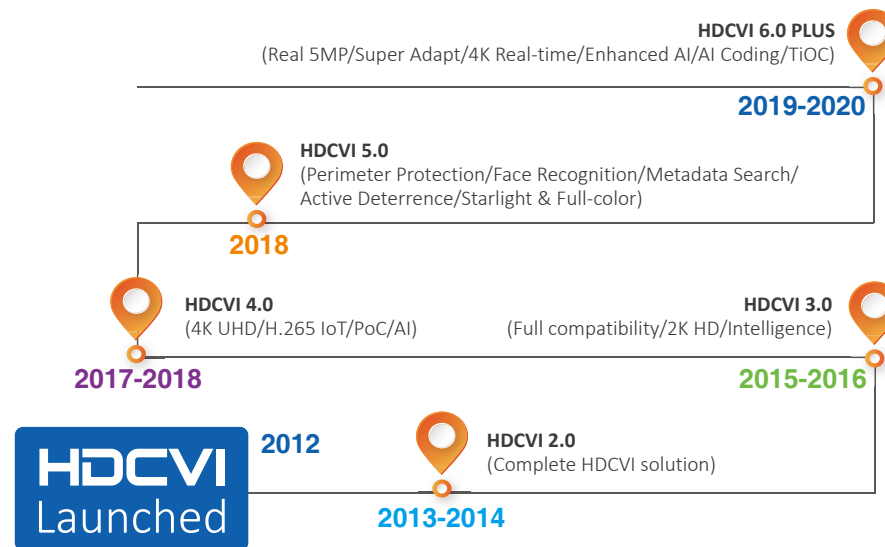
ACCESSORIES /  
VIDEO MANAGEMENT SOFTWARE /  
DORI DISTANCE (D/O/R/I)



# HDCVI 6.0 PLUS

The Dahua HDCVI technology has been leading the HD-over-Coax industry's development since its first launch in 2012. In 2020, on the basis of HDCVI 6.0 technology, HDCVI 6.0 PLUS successfully combines technological innovation with usability improvement, bringing some new technologies including Real 5MP, Super Adapt to users, continuing to lead the over-coax AI evolution.

With HDCVI 6.0 PLUS technology, the cameras can be better used with AI functions, thereby accelerating the application and popularization of AI solutions while maintaining the born feature of easy-to-use of HDCVI.



## HDCVI 6.0 PLUS

# Wiz Sense

## Focus on Human and Vehicle



## WizSense

Launched by Dahua Technology, WizSense is a series of wide range AI products and solutions that adopt independent AI chip and deep learning algorithm. It can recognize human and vehicle in an image with high accuracy, enabling users to focus on real targets. Based on Dahua's advanced technology, WizSense makes your video intelligent, simple and inclusive.



**Intelligent** refers to WizSense powered by AI chip and deep learning algorithm. It provides various features that realize accurate alarms for human and vehicle, as well as quick target search, maximizing resources to increase overall efficiency.



**Simple** means WizSense offers simple configuration, especially for SMD Plus and AI Coding enabled by default. It eases your customer's daily job and also empowers them to make better business decisions.



**Inclusivity** of WizSense is the idea that everyone gets the opportunities and benefits from AI. With affordable prices and easy configuration of Dahua WizSense, AI is no longer confined to the ivory tower, but applied to real scenarios instead.

# Full-color 2.0

The Full-color camera provides 24/7 color images with vivid color details that can accurately identify people or objects in low light conditions. Its latest upgrade, Full-color 2.0, has adopted a new packaging design with lively and eye-catching color palette. This new series offers enhanced image performance powered by WDR, 3DNR and Super Adapt technologies, providing users with a better visual experience.



## High Performance Chipset

Provides high color reproduction and excellent low light performance for a more vivid and brighter image.



## Smart White Light

Serves as supplementary light to guarantee image usability even in total darkness.



## 24/7 Color Monitoring

Increases probability of collecting valid human, vehicle, and event evidence.



## Wide Application

Suitable for low-light environment, such as parking lots, streets, cinemas, shops, schools, etc.

# Full-color Camera



Colorful View Ever, Dark World Never



# SMD Plus

One major problem with traditional motion detection is the false alarm triggered by non-target objects, such as pets, insects, leaves, branches, raindrops, lights, etc. Dealing with messages reporting false alarms is not only annoying but also a huge waste of time and money. In addition, due to lengthy surveillance videos, it usually takes a significant amount of time and effort to find relevant clips that contain crucial information. As an improved version of a typical Smart Motion Detection, SMD Plus is equipped with built-in independent AI intelligent chip that reduces false alarms and surveillance costs. At the same time, it also features practical functions empowered by deep learning AI algorithms.

## SMD Plus Work Process



# Perimeter Protection

Perimeter Protection system refers to the fortifications built to either keep intruders out or to keep captives contained within the area the boundary surrounds. The Dahua Perimeter Protection powered by AI focuses on human and vehicle, sending alarms only when unwanted movements by human or vehicle have been detected, saving users from unnecessary actions caused by false alarms. Compared with traditional physical perimeter protection solutions like infrared or fence sensor, the Dahua perimeter protection based on tripwire and area intrusion provides video evidence with higher accuracy and higher cost efficiency. In addition, the alarm events can be sent to the mobile app in real time via push notification, and lights and siren can be linked to provide real-time deterrent warning.



## Difference between SMD Plus and Perimeter Protection

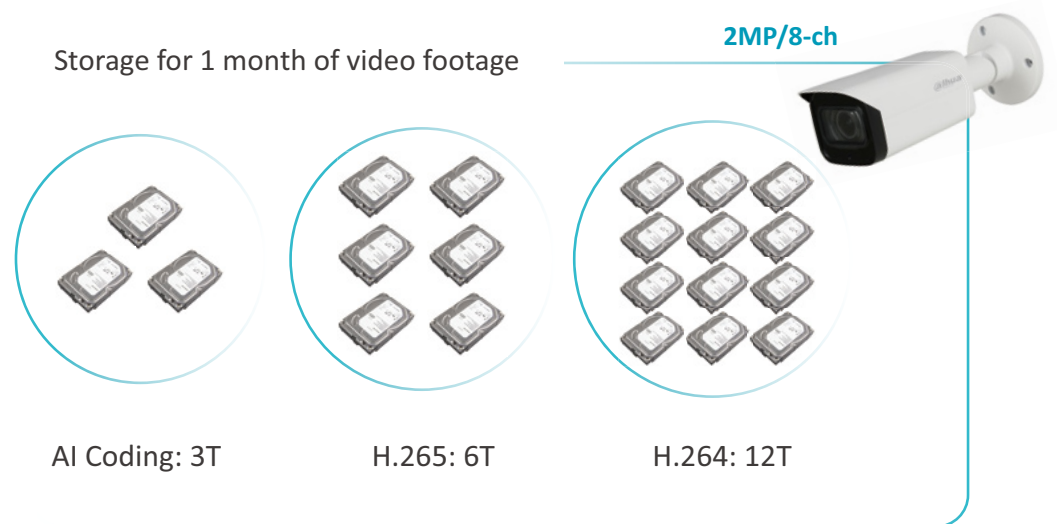
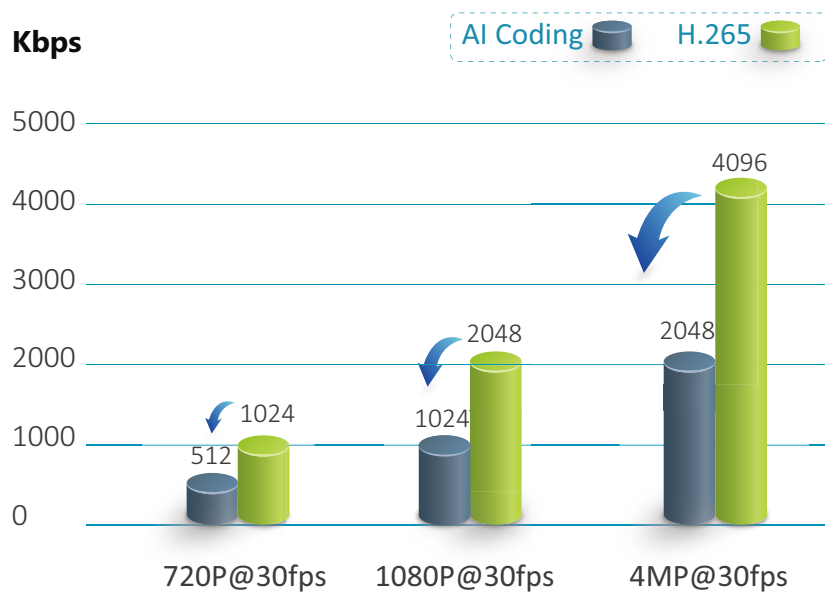
	Perimeter Protection	SMD Plus
Supported Channels	Up to 2 channels	Up to full channels
Configuration	Draw tripwire or intrusion rules	Enabled by default
Application Scenario	Applicable to specific areas, especially places that need direction	Whole scene by default

# AI Coding

As video moves toward high definition, how to save storage costs while maintaining image quality has become one of the users' concerns. Dahua AI Coding puts emphasis on human and vehicle while encoding, ensuring the target image quality while saving 50% bandwidth and storage costs compared with standard H.265. Through its CBR (Constant Bit Rate) algorithm framework, AI Coding does not lose its decoding compatibility when integrated with 3rd party players or platforms. Furthermore, AI Coding requires fixed bandwidth construction, making it easy to deploy bandwidth and improve bandwidth utilization.

AI Coding function is enabled by default in the newest firmware version.

Saves 50% of bandwidth and storage space!

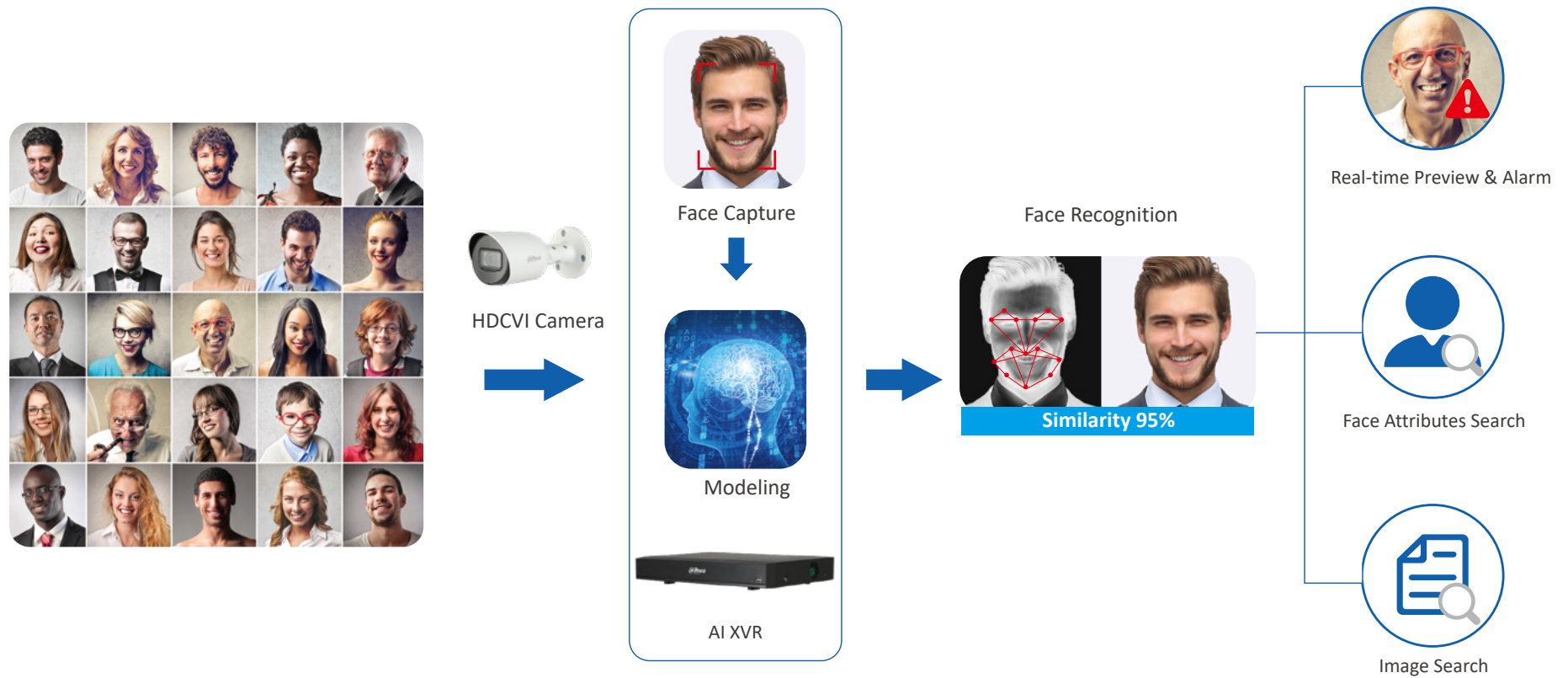




# Face Recognition

By comparing detected face image with a customized face image database, users can gain more business value through VIP recognition, blacklist alarm, stranger alarm, etc.

AI Search enables target searching using attributes or face images, helping users to efficiently and quickly find out when and where a person of interest has appeared in monitored scenes.



# TiOC

- TiOC (Three-in-One Camera) integrates full-color, active deterrence and AI into one solution.
- Accurately detects intrusion by Perimeter Protection/SMD Plus and filters out false alarms.
- Actively warns off intruders with red blue light and siren even before users become aware of the incident.
- 24/7 colorful and HD monitoring provides efficient verification with more useful evidence.
- The single-button arm/disarm function of DMSS provides quick and convenient switching operation of the video surveillance system.
- Customized voice audio can be uploaded via DMSS app, bringing great convenience for end-users.

## 1 Perimeter Protection/SMD Plus identifies intrusion



## 2 Actively warns off intruders



! Alarm over coax



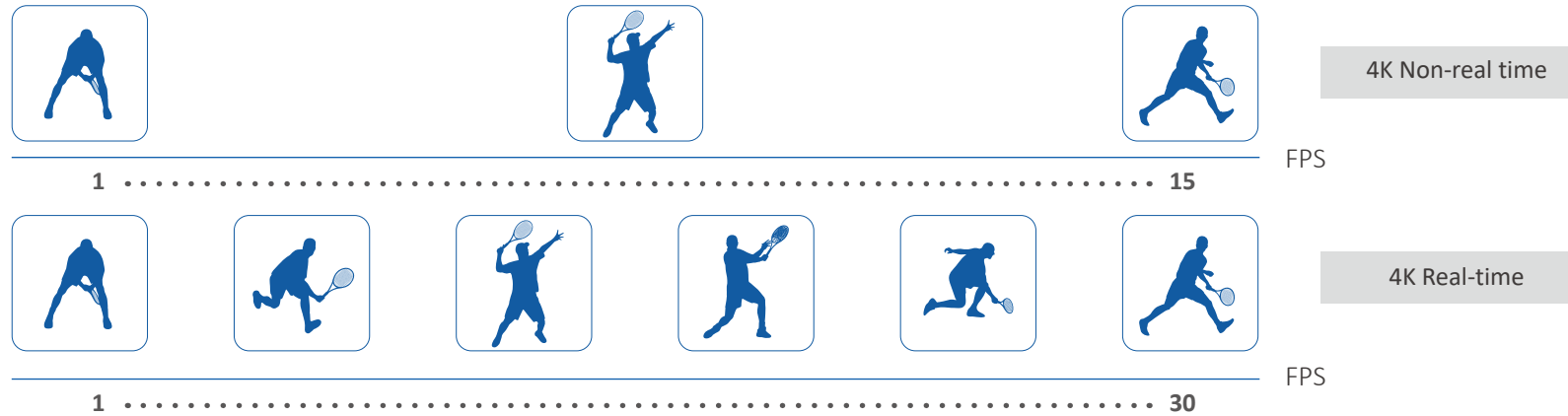
XVR

## 3 Users can verify alarm with video



# 4K Real-time

4K Real-time, one of the core features of the brand-new HDCVI 6.0, is a unique and leading technology in HD-over-Coax market. It restores the monitoring scene with 25/30fps for a better visual experience, and offers superior clarity by capturing even tiny details of the scene.




# 5MP 16:9 Camera

- 5MP 16:9 original image output, achieving undistorted 5MP image performance and super clear details.
- Starlight feature presents clean and bright images even in the low light environment.
- 5MP@25fps feature provides more fluent visual experience and abundant details.




# Customized Alarm Ringtone


The alarm sound of the camera can be customized and recorded via the DMSS app, bringing more convenience and flexibility for end-users.



"Private area, please keep away!"

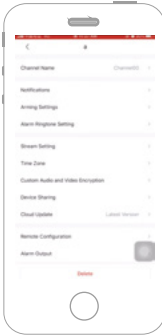


"No parking here!"

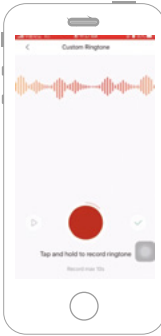


"Welcome!"


Easy Setting on DMSS:



Step1:  
Click alarm  
ringtone setting



Step2:  
Tap and hold to  
record ringtone



Step3:  
Saved  
successfully

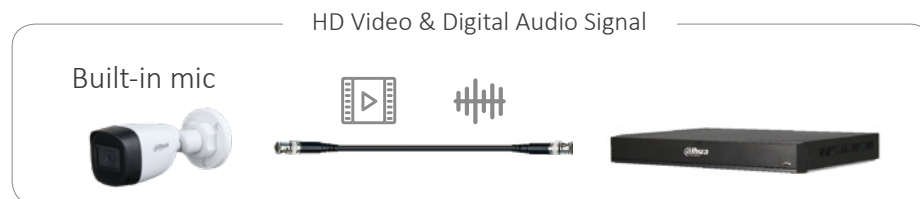
# One-tap Arming and Disarming

The DMSS app features a newly-added arming/disarming option for the camera's siren and warning light, making it convenient for users. For instance, once a delivery man that triggered the alarm has been verified, the user can simply use his cellphone to disable the alarm.



# DAC Technology

Audio information can bring supplementary evidence in video surveillance. HDCVI DAC (Digital Audio-over-Coax) technology can provide users with a lossless and real-time auditory experience and a high-quality video & audio surveillance solution.



- One coaxial cable transmission of audio and video simplifies installation and saves labor costs.
- Lossless and real-time digital audio signal transmission achieves broadcast-level audio quality.
- All XVR models support audio-over-coax, protecting users' investment.

# Super Adapt

HDCVI Super Adapt camera can recognize various monitoring environment such as indoor, outdoor or intense lighting, and automatically adjust the parameters to present the optimal image. No more manual camera debugging work is required, greatly saving the cost for installers.



Without Super Adapt

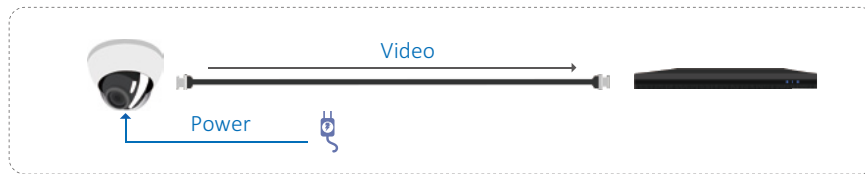


With Super Adapt

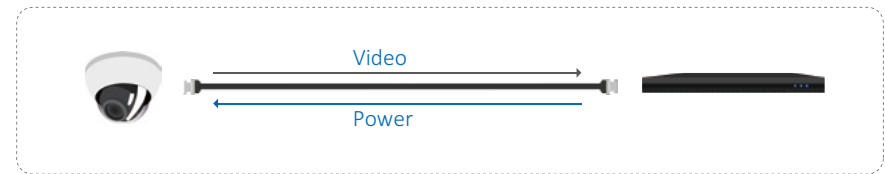
# POC

PoC (Power over Coax) transmits both video and electrical power over a single coaxial cable. The HDCVI PoC technology further simplifies HDCVI system deployment, reducing time and cost. In addition, its long distance transmission capability guarantees transmission of up to 200m for AF PoC cameras and 100m for AT PoC cameras.

Conventional System:



PoC System:



## Quick-to-Install

The HDCVI quick-to-install camera adopts aesthetic design with universal joints and quick-to-install pedestal structure, enabling an easy and convenient installation to save labor costs. In addition, all quick-to-install cameras are equipped with built-in mic to collect more useful audio evidence.



# HDCVI CAMERAS



# Pro Series

Pro Series is a perfect choice for SMB solutions and projects where both high reliability and flexibility are required. All cameras are equipped with Starlight feature, true WDR and 3DNR, and are able to provide clear images and rich details even under tough lighting conditions. Full-color cameras can provide 24/7 vivid color images.



## High Definition

Pro Series supports ultra high definition up to 4K, which equals to 4 times 1080P resolution, creating images with impressive clarity and details.



## Starlight

Starlight camera can provide bright and clear image even under extreme lowlight environment, allowing more details and longer color image periods to be captured.



## WDR (Wide Dynamic Range)

WDR technology optimizes both the bright and dark areas of a scene at the same time to provide usable video in intense contrast lighting conditions.










## DAC (Digital Audio-over-Coax)

Audio information is used as supplementary evidence for video surveillance. The DAC technology supports high quality overcoax audio transmission with low noise.









# HDCVI CAMERAS

## Pro Series

	Box Camera		Vari-focal Bullet				
Model	HAC-HF3805G	HAC-HF3231E(-T)	HAC-HFW2802T-Z-A(-DP)	HAC-HFW2501TU-Z-A(-DP)	HAC-HFW2402T-Z-A(-DP)	HAC-HFW2241T-Z-A(-DP)	HAC-HFW3231E-Z12
Appearance	 Full Color	 Starlight	 Starlight	 Starlight	 Starlight	 Starlight	 Starlight
Image Sensor	4/3" 8MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/1.8" 8MP CMOS	1/2.7" 5MP(16:9) CMOS	1/1.8" 4MP CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS
Min. Illumination	0.001Lux/F1.2 (Color)	0.005Lux/F1.2 (Color) 0.0005Lux/F1.2 (B/W)	0.005Lux/F1.5 (Color) 0Lux/F1.5 (IR on)	0.001Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.002Lux/F1.9 (Color) 0Lux/F1.9 (IR on)	0.004Lux/F1.6 (Color) 0Lux/F1.6 (IR on)	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR on)
Lens	M43, Auto Iris	C/CS, Auto Iris	3.7-11mm, Motorized	2.7~13.5mm, Motorized	3.7-11mm, Motorized	2.7~13.5mm (6~22mm Optional), Motorized	5.3~64mm, Motorized, Auto Iris
FOV-H	--	--	112°~46°	113°~31.4°	114.3°~47.2°	108.7°~28.7° (42.4°~17.9°)	58°~5°
Day/Night	Color	ICR	ICR	ICR	ICR	ICR	ICR
Max. IR Distance	--	--	80m (262ft), Smart IR	80m (262ft), Smart IR	80m (262ft), Smart IR	80m (262ft), Smart IR	100m (328ft), Smart IR
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
WDR	140dB	120dB	120dB	120dB	120dB	120dB	120dB
Noise Reduction	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D
Frame Rate	HDMI: 30fps@4K 30fps@4MP BNC: 15fps@4K 30fps@4MP	30fps@1080P 30fps@720P	15fps@4K 20fps@6MP 30fps@4MP	25fps@5MP(16:9) 30fps@4MP 30fps@1080P	30fps@4MP 30fps@1080P	30fps@1080P 30fps@720P	30fps@1080P 30fps@720P
Video Output	HD (HDMI & BNC Output)	HD/SD Dual-output SDI Output(-T)	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Dual-output SD Tester-out
Audio In	1ch in & Built-in Mic	1ch in & Built-in Mic	1ch in & Built-in Mic	Built-in Mic	1ch in & Built-in Mic	1ch in & Built-in Mic	1
Alarm In/Out	2/1	2/1	--	--	--	--	2/1
Pan/Tilt/Rotation	--	--	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°
Ingress Protection	--	--	IP67	IP67	IP67	IP67	IP67, IK10
Working Temperature	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)
Power	AC24V±25%/DC12V±25% Max. 6.4W	AC24V±25%/DC12V±25% Max. 4.7W	DC12V±30%, Max. 12.5W DC 12V±30%/AC 24V±30% Max. 15W(-DP) Output: DC12V, Max. 2W(-DP)	DC12V±30%, Max. 10.7W DC12V±10%/AC24V±25% Max. 12.5W(-DP)	DC12V±30%, Max. 10.8W DC12V±30%/AC24V±30% Max. 13.5W(-DP) Output: DC12V, Max. 2W(-DP)	DC12V±30%, Max. 8.2W AC24V±30%/DC12V±30% Max. 11.1W(-DP) Output: DC12V, Max. 2W(-DP)	AC24V±25%/DC12V±25% Max. 15.6W

# HDCVI CAMERAS

Pro Series

Model	Vari-focal Dome				Vari-focal Eyeball		
	HAC-HDBW2802R-Z (-DP)	HAC-HDBW2501R-Z (-DP)	HAC-HDBW2402R-Z (-DP)	HAC-HDBW2241R-Z (-DP)	HAC-HDW2501TMQ-Z-A(-DP)	HAC-HDW2802T-Z-A (-DP)	HAC-HDW2501T-Z-A (-DP)
Appearance	 Starlight	 Starlight	 Starlight	 Starlight	 Starlight	 Starlight	 Starlight
Image Sensor	1/1.8" 8MP CMOS	1/2.7" 5MP(16:9) CMOS	1/1.8" 4MP CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.7" 5MP(16:9) CMOS	1/1.8" 8MP CMOS	1/2.7" 5MP(16:9) CMOS
Min. Illumination	0.005Lux/F1.5 (Color) 0Lux/F1.5 (IR on)	0.001Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.002Lux/F1.9 (Color) 0Lux/F1.9 (IR on)	0.004Lux/F1.6 (Color) 0Lux/F1.6 (IR on)	0.001Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.005Lux/F1.5 (Color) 0Lux/F1.5 (IR on)	0.001Lux/F1.6 (Color) 0Lux/F1.6 (IR On)
Lens	3.7-11mm, Motorized	2.7~13.5mm, Motorized	3.7-11mm, Motorized	2.7~13.5mm, Motorized	2.7~13.5mm, Motorized	3.7-11mm, Motorized	2.7~13.5mm, Motorized
FOV-H	112°~46°	113°~31.4°	114.3°~47.2°	108.7°~28.7°	113°~31.4°	112°~46°	113°~31.4°
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR	ICR
Max. IR Distance	30m (98ft), Smart IR	30m (98ft), Smart IR	30m (98ft), Smart IR	30m (98ft), Smart IR	60m (197ft), Smart IR	60m (197ft), Smart IR	60m (197ft), Smart IR
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
WDR	120dB	120dB	120dB	120dB	120dB	120dB	120dB
Noise Reduction	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D
Frame Rate	15fps@4K 20fps@6MP 30fps@4MP	25fps@5MP(16:9) 30fps@4MP 30fps@1080P	30fps@4MP 30fps@1080P	30fps@1080P 30fps@720P	25fps@5MP(16:9) 30fps@4MP 30fps@1080P	15fps@4K 20fps@6MP 30fps@4MP	25fps@5MP(16:9) 30fps@4MP 30fps@1080P
Video Output	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable
Audio In	1	--	1	1	Built-in Mic	1ch in & Built-in Mic	Built-in Mic
Alarm In/Out	--	--	--	--	--	--	--
Pan/Tilt/Rotation	Pan: 0°~355°; Tilt: 0°~75° Rotation: 0°~355°	Pan: 0°~355°; Tilt: 0°~75° Rotation: 0°~355°	Pan: 0° ~ 355°; Tilt: 0° ~ 75° Rotation: 0° ~ 355°	Pan: 0°~355°; Tilt: 0°~75° Rotation: 0°~355°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°
Ingress Protection	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	IP67	IP67	IP67
Working Temperature	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)
Power	DC12V±30%, Max. 7W DC 12V±30%/AC 24V±30% Max. 8.4W(-DP) Output: DC12V, Max. 2W (-DP)	DC12V±30%, Max. 6.6W DC12V±10%/AC24V±25% Max. 8.7W (-DP)	DC12V±30%, Max. 8.8W DC12V±30%/AC24V±30% Max. 11.8W(-DP) Output: DC12V, Max. 2W (-DP)	DC12V±30%, Max. 4.7W AC24V±30%/DC12V±30% Max. 5.9W(-DP) Output: DC12V, Max. 2W (-DP)	DC12V±30%, Max. 7.9W DC12V±10%/AC24V±25% Max. 9.5W (-DP)	DC12V±30%, Max. 9.5W DC 12V±30%/AC 24V±30% Max. 12W(-DP) Output: DC12V, Max. 2W (-DP)	DC12V±30%, Max. 7.9W DC12V±10%/AC24V±25% Max. 9.5W (-DP)







# HDCVI CAMERAS

## Pro Series

	Vari-focal Eyeball		Fixed-focal Bullet			
Model	HAC-HDW2402T-Z-A (-DP)	HAC-HDW2241T-Z-A(-DP)	HAC-HFW2802T-I8-A	HAC-HFW2501TU-A	HAC-HFW2402T-I8-A	HAC-HFW2241T-I8-A
Appearance	 <span>Starlight</span>	 <span>Starlight</span>	 <span>Starlight</span>	 <span>Starlight</span>	 <span>Starlight</span>	 <span>Starlight</span>
Image Sensor	1/1.8" 4MP CMOS	1/2.8" 2MP STARVIS™ CMOS	1/1.8" 8MP CMOS	1/2.7" 5MP(16:9) CMOS	1/1.8" 4MP CMOS	1/2.8" 2MP STARVIS™ CMOS
Min. Illumination	0.002Lux/F1.9 (Color) 0Lux/F1.9 (IR on)	0.004Lux/F1.6 (Color) 0Lux/F1.6 (IR on)	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR on)	0.001Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.002Lux/F1.6 (Color) 0Lux/F1.6 (IR on)	0.004Lux/F1.6 (Color) 0Lux/F1.6 (IR on)
Lens	3.7-11mm, Motorized	2.7~13.5mm, Motorized	3.6mm (6mm Optional)	3.6mm (6mm, 8mm Optional)	3.6mm (2.8mm, 6mm Optional)	3.6mm (6mm Optional)
FOV-H	114.3°~47.2°	108.7°~28.7°	87°(55°)	92°(57°/43°)	88.5°(112.7°/55.8°)	86.9°(52.8°)
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR
Max. IR Distance	60m (197ft), Smart IR	60m (197ft), Smart IR	80m (262ft), Smart IR	80m (262ft), Smart IR	80m (262ft), Smart IR	80m (262ft), Smart IR
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
WDR	120dB	120dB	120dB	120dB	120dB	120dB
Noise Reduction	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D
Frame Rate	30fps@4MP 30fps@1080P	30fps@1080P 30fps@720P	15fps@4K 20fps@6MP 30fps@4MP	25fps@5MP(16:9) 30fps@4MP 30fps@1080P	30fps@4MP 30fps@1080P	30fps@1080P 30fps@720P
Video Output	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable
Audio In	1ch in & Built-in Mic	1ch in & Built-in Mic	1ch in & Built-in Mic	Built-in Mic	1ch in & Built-in Mic	1ch in & Built-in Mic
Alarm In/Out	--	--	--	--	--	--
Pan/Tilt/Rotation	Pan: 0° ~ 360°; Tilt: 0° ~ 78° Rotation: 0° ~ 360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°
Ingress Protection	IP67	IP67	IP67	IP67	IP67	IP67
Working Temperature	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)
Power	DC12V±30%, Max. 7.9W DC12V±30%/AC24V±30% Max. 10.3W(-DP) Output: DC12V, Max. 2W(-DP)	DC12V±30%, Max. 5.4W AC24V±30%/DC12V±30% Max. 6.9W(-DP) Output: DC12V, Max. 2W(-DP)	DC12V±30% Max. 11.3W	DC12V±30% Max. 9.6W	DC12V±30% Max. 11.5W	DC12V±30% Max. 10.1W







## Pro Series

## Fixed-focal Bullet

Model	HAC-HFW2249T-I8-A	HAC-HFW2249T-I8-A-LED	HAC-HFW2802E-A	HAC-HFW2501E-A	HAC-HFW2241E-A	HAC-HFW2249E-A
Appearance	 Full Color	 Full Color	 Starlight	 Starlight	 Starlight	 Full Color
Image Sensor	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/1.8" 8MP CMOS	1/2.7" 5MP(16:9) CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS
Min. Illumination	0.001Lux/F1.0 (Color)	0.001Lux/F1.0 (Color) 0Lux/F1.0 (LED On)	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR on)	0.001Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.004Lux/F1.6 (Color) 0Lux/F1.6 (IR on)	0.001Lux/F1.0 (Color)
Lens	3.6mm	3.6mm (6mm Optional)	3.6mm (2.8mm, 6mm Optional)	3.6mm (2.8mm, 6mm Optional)	3.6mm (2.8mm, 6mm Optional)	3.6mm
FOV-H	89.5°	89.5°(53.8°)	87°(110.8°/55°)	92°(111°/57°)	86.9°(110°/52.8°)	89.5°
Day/Night	Color	Color	ICR	ICR	ICR	Color
Max. IR Distance	--	LED: 40m (131ft), Smart Light	40m (131ft), Smart IR	40m (131ft), Smart IR	40m (131ft), Smart IR	--
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
WDR	120dB	120dB	120dB	120dB	120dB	120dB
Noise Reduction	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D
Frame Rate	30fps@1080P 30fps@720P	30fps@1080P 30fps@720P	15fps@4K 20fps@6MP 30fps@4MP	25fps@5MP(16:9) 30fps@4MP 30fps@1080P	30fps@1080P 30fps@720P	30fps@1080P 30fps@720P
Video Output	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable
Audio In	1ch in & Built-in Mic	1ch in & Built-in Mic	1ch in & Built-in Mic	Built-in Mic	1ch in & Built-in Mic	1ch in & Built-in Mic
Alarm In/Out	--	--	--	--	--	--
Pan/Tilt/Rotation	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°
Ingress Protection	IP67	IP67	IP67	IP67	IP67	IP67
Working Temperature	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)
Power	DC12V±30% Max. 2.4W	DC12V±30% Max. 6.6W	DC12V±30% Max. 6.8W	DC12V±30% Max. 5.9W	DC12V±30% Max. 6.7W	DC12V±30% Max. 2.4W







# HDCVI CAMERAS

## Pro Series

	Fixed-focal Bullet			Fixed-focal Dome		
Model	HAC-HFW2249E-A-LED	HAC-HFW2501CM-A	HAC-HFW2241S	HAC-HDBW2802R	HAC-HDBW2402R	HAC-HDBW2501E
Appearance	 Full Color	 Starlight	 Starlight	 Starlight	 Starlight	 Starlight
Image Sensor	1/2.8" 2MP STARVIS™ CMOS	1/2.7" 5MP(16:9) CMOS	1/2.8" 2MP STARVIS™ CMOS	1/1.8" 8MP CMOS	1/1.8" 4MP CMOS	1/2.7" 5MP(16:9) CMOS
Min. Illumination	0.001Lux/F1.0 (Color) 0Lux/F1.0 (LED On)	0.001Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.004Lux/F1.6 (Color) 0Lux/F1.6 (IR on)	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR on)	0.002Lux/F1.6 (Color) 0Lux/F1.6 (IR on)	0.001Lux/F1.6 (Color) 0Lux/F1.6 (IR On)
Lens	3.6mm (6mm Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm, 6mm Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm Optional)
FOV-H	89.5°(53.8°)	92°(111°)	86.9°(110°/52.8°)	87°(110.8°)	88.5°(112.7°)	92°(111°)
Day/Night	Color	ICR	ICR	ICR	ICR	ICR
Max. IR Distance	LED: 40m (131ft), Smart Light	30m (98ft), Smart IR	30m (98ft), Smart IR	30m (98ft), Smart IR	30m (98ft), Smart IR	30m (98ft), Smart IR
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
WDR	120dB	120dB	120dB	120dB	120dB	120dB
Noise Reduction	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D
Frame Rate	30fps@1080P 30fps@720P	25fps@5MP(16:9) 30fps@4MP 30fps@1080P	30fps@1080P 30fps@720P	15fps@4K 20fps@6MP 30fps@4MP	30fps@4MP 30fps@1080P	25fps@5MP(16:9) 30fps@4MP 30fps@1080P
Video Output	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable
Audio In	1ch in & Built-in Mic	Built-in Mic	1	1	1	Built-in Mic
Alarm In/Out	--	--	--	--	--	--
Pan/Tilt/Rotation	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~355°; Tilt: 0°~75° Rotation: 0°~355°	Pan: 0° ~ 355°; Tilt: 0° ~ 75° Rotation: 0° ~ 355°	Pan: 0°~355°; Tilt: 0°~65° Rotation: 0°~355°
Ingress Protection	IP67	IP67	IP67	IP67, IK10	IP67, IK10	IP67, IK10
Working Temperature	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)
Power	DC12V±30% Max. 6.6W	DC12V±30% Max. 4.7W	DC12V±30% Max. 5.9W	DC12V±30% Max. 7W	DC12V±30% Max. 5.8W	DC12V±30% Max. 4.5W







## Pro Series

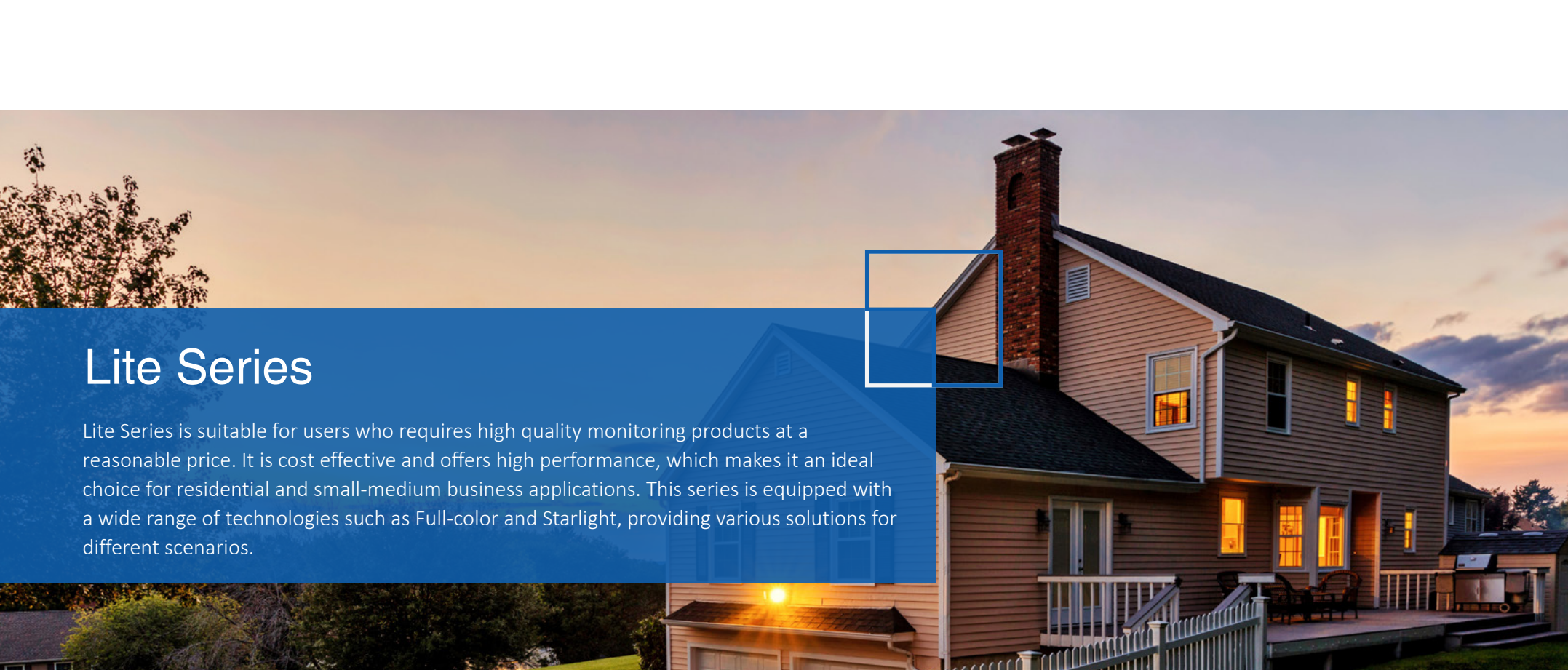
## Fixed-focal Eyeball

Model	HAC-HDBW2241E	HAC-HDW2501TMQ-A	HAC-HDW2501TQ-A	HAC-HDW2802T-A	HAC-HDW2402T-A	HAC-HDW2241T-A
Appearance	 Starlight	 Starlight	 Starlight	 Starlight	 Starlight	 Starlight
Image Sensor	1/2.8" 2MP STARVIST™ CMOS	1/2.7" 5MP(16:9) CMOS	1/2.7" 5MP(16:9) CMOS	1/1.8" 8MP CMOS	1/1.8" 4MP CMOS	1/2.8" 2MP STARVIST™ CMOS
Min. Illumination	0.004Lux/F1.6 (Color) 0Lux/F1.6 (IR on)	0.001Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.001Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR on)	0.002Lux/F1.6 (Color) 0Lux/F1.6 (IR on)	0.004Lux/F1.6 (Color) 0Lux/F1.6 (IR on)
Lens	3.6mm (2.8mm Optional)	3.6mm (2.8mm, 6mm Optional)	3.6mm (2.8mm, 6mm Optional)	3.6mm (2.8mm, 6mm Optional)	3.6mm (2.8mm, 6mm Optional)	3.6mm (2.8mm, 6mm Optional)
FOV-H	86.9°(110°)	92°(111°/57°)	92°(111°/57°)	87°(110.8°/55°)	88.5°(112.7°/55.8°)	86.9°(110°/52.8°)
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR
Max. IR Distance	30m (98ft), Smart IR	60m (197ft), Smart IR	40m (131ft), Smart IR	50m (164ft), Smart IR	50m (164ft), Smart IR	50m (164ft), Smart IR
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
WDR	120dB	120dB	120dB	120dB	120dB	120dB
Noise Reduction	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D
Frame Rate	30fps@1080P 30fps@720P	25fps@5MP(16:9) 30fps@4MP 30fps@1080P	25fps@5MP(16:9) 30fps@4MP 30fps@1080P	15fps@4K 20fps@6MP 30fps@4MP	30fps@4MP 30fps@1080P	30fps@1080P 30fps@720P
Video Output	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable
Audio In	1	Built-in Mic	Built-in Mic	1ch in & Built-in Mic	1ch in & Built-in Mic	1ch in & Built-in Mic
Alarm In/Out	--	--	--	--	--	--
Pan/Tilt/Rotation	Pan: 0°~355°; Tilt: 0°~65° Rotation: 0°~355°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°
Ingress Protection	IP67, IK10	IP67	IP67	IP67	IP67	IP67
Working Temperature	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)
Power	DC12V±30% Max. 4.4W	DC12V±30% Max. 5.9W	DC12V±30% Max. 4.3W	DC12V±30% Max. 8W	DC12V±30% Max. 7.1W	DC12V±30% Max. 5.3W

# HDCVI CAMERAS

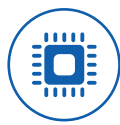
## Pro Series

	Fixed-focal Eyeball				Wedge Dome	
Model	HAC-HDW2249T-A	HAC-HDW2249T-A-LED	HAC-HDW2501TLMQ-A	HAC-HDW2241M	HAC-HDBW2501F-A	HAC-HDBW2241F-A
Appearance	 Full-color	 Full-color	 Starlight	 Starlight	 Starlight	 Starlight
Image Sensor	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.7" 5MP(16:9) CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.7" 5MP(16:9) CMOS	1/2.8" 2MP STARVIS™ CMOS
Min. Illumination	0.001Lux/F1.0 (Color)	0.001Lux/F1.0 (Color) 0Lux/F1.0 (LED On)	0.001Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.004Lux/F1.6 (Color) 0Lux/F1.6 (IR on)	0.001Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.004Lux/F1.6 (Color) 0Lux/F1.6 (IR on)
Lens	3.6mm	3.6mm (6mm Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm, 6mm Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm Optional)
FOV-H	89.5°	89.5°(53.8°)	92°(111°)	86.9°(110°/52.8°)	92°(111°)	86.9°(110°)
Day/Night	Color	Color	ICR	ICR	ICR	ICR
Max. IR Distance	--	LED: 40m (131ft), Smart Light	30m (197ft), Smart IR	30m (98ft), Smart IR	30m (197ft), Smart IR	20m (66ft), Smart IR
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
WDR	120dB	120dB	120dB	120dB	120dB	120dB
Noise Reduction	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D
Frame Rate	30fps@1080P 30fps@720P	30fps@1080P 30fps@720P	25fps@5MP(16:9) 30fps@4MP 30fps@1080P	30fps@1080P 30fps@720P	25fps@5MP(16:9) 30fps@4MP 30fps@1080P	30fps@1080P 30fps@720P
Video Output	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable
Audio In	1ch in & Built-in Mic	1ch in & Built-in Mic	Built-in Mic	1	Built-in Mic	1ch in & Built-in Mic
Alarm In/Out	--	--	--	--	--	--
Pan/Tilt/Rotation	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~60°; Tilt: 0°~80° Rotation: 0°~360°	Pan: 0°~60°; Tilt: 0°~80° Rotation: 0°~360°
Ingress Protection	IP67	IP67	IP67	IP67	IP67, IK10	IP67, IK10
Working Temperature	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)
Power	DC12V±30% Max. 2.4W	DC12V±30% Max. 6.6W	DC12V±30% Max. 4.3W	DC12V±30% Max. 4.7W	DC12V±30% Max. 4.0W	DC12V±30% Max. 4.3W



# Lite Series

Lite Series is suitable for users who requires high quality monitoring products at a reasonable price. It is cost effective and offers high performance, which makes it an ideal choice for residential and small-medium business applications. This series is equipped with a wide range of technologies such as Full-color and Starlight, providing various solutions for different scenarios.



## High Performance

Lite Series adopts advanced in-house ISP and high performance sensor to deliver high quality image with high resolution ranging from 1080P to 4K.



## Quick-to-Install

Quick-to-Install structure design allows quick and convenient installation and adjustment, saving time and labor costs.



## Full-color

Full-color cameras present 24/7 colored images with clear details to accurately identify people or objects even under low light conditions.



## Built-in Mic







Lite Series offers optional models with built-in mic, which can collect high quality audio information as supplementary evidence for video surveillance.









# HDCVI CAMERAS

Lite Series

## Vari-focal Bullet

Model	HAC-HFW1509TU-Z-A-LED(-DP)	HAC-HFW1239TU-Z-A-LED (-DP)	HAC-HFW1801R-Z-IRE6(-A)	HAC-HFW1500R-Z-IRE6(-A/DP)	HAC-HFW1231R-Z-A(-DP)	HAC-HFW1200R-Z-IRE6(-A)
Appearance						
Image Sensor	1/2.7" 5MP(16:9) CMOS	1/2.8" 2MP CMOS	1/2.7" 8MP CMOS	1/2.7" 5MP(16:9) CMOS	1/2.8" 2MP CMOS	1/2.7" 2MP CMOS
Min. Illumination	0.001Lux/F1.0 (Color) 0Lux/F1.0 (LED On)	0.001Lux/F1.2 (Color) 0Lux/F1.2 (LED On)	0.03Lux/F1.7 (Color) 0Lux/F1.7 (IR On)	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.002Lux/F1.5 (Color) 0Lux/F1.5 (IR On)	0.02Lux/F1.7 (Color) 0Lux/F1.7 (IR On)
Lens	2.7-13.5mm, Motorized	2.7-13.5mm, Motorized	2.7-13.5mm, Motorized	2.7-12mm, Motorized	2.7-12mm, Motorized	2.7-12mm, Motorized
FOV-H	112°~35°	107°~34°	105°~33°	106°~35°	102°~33°	102°~33°
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR
Max. IR Distance	LED: 60m (197ft), Smart Light	LED: 60m (197ft), Smart Light	60m (197ft), Smart IR	60m (197ft), Smart IR	80m (262.5ft), Smart IR	60m (197ft), Smart IR
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
WDR	120dB	130dB	120dB	DWDR	130dB	DWDR
Noise Reduction	2D/3D	2D/3D	2D/3D	2D	2D/3D	2D
Frame Rate	25fps@5MP(16:9) 25fps@4MP 25fps@1080P	30fps@1080P	15fps@4K 20fps@5MP 30fps@4MP	25fps@5MP(16:9) 30fps@4MP 30fps@1080P	30fps@1080P	30fps@1080P 30fps@720P
Video Output	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable
Audio In	Built-in Mic(-A)	Built-in Mic	Built-in Mic (-A)	Built-in Mic (-A)	Built-in Mic	Built-in Mic (-A)
Alarm In/Out	--	--	--	--	--	--
Pan/Tilt/Rotation	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°
Ingress Protection	IP67	IP67	IP67	IP67	IP67	IP67
Working Temperature	-30°C~+60°C (-22°F~+140°F)"	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)
Power	DC12V±30%, Max. 11.88W DC12V±10%/AC24V±25% Max. 14.92W(-DP)	DC12V±30%, Max. 10.2W DC12V±10%/AC24V±25% Max. 13.2W(-DP)	DC12V±30% Max. 11W	DC12V±30%, Max. 11W DC12V±10%/AC24V±25% Max. 11.5W(-DP)	DC12V±30%, Max. 12.1W DC12V±10%/AC24V±25% Max. 9.5W(-DP)	DC12V±30% Max. 12.1W







## Lite Series

	Vari-focal Dome				Vari-focal Eyeball	
Model	HAC-HDBW1231RA-Z-A(-DP)	HAC-HDBW1801R-Z	HAC-HDBW1500R-Z(-DP)	HAC-HDBW1200R-Z	HAC-HDW1801T-Z(-A)	HAC-HDW1509T-Z-A-LED(-DP)
Appearance	 Starlight		 Starlight			
Image Sensor	1/2.8" 2MP CMOS	1/2.7" 8MP CMOS	1/2.7" 5MP(16:9) CMOS	1/2.7" 2MP CMOS	1/2.7" 8MP CMOS	1/2.7" 5MP(16:9) CMOS
Min. Illumination	0.002Lux/F1.5 (Color) 0Lux/F1.5 (IR On)	0.03Lux/F1.7 (Color) 0Lux/F1.7 (IR On)	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.02Lux/F1.7 (Color) 0Lux/F1.7 (IR On)	0.03Lux/F1.7 (Color) 0Lux/F1.7 (IR On)	0.001Lux/F1.0 (Color) 0Lux/F1.0 (LED On)
Lens	2.7-12mm, Motorized	2.7-13.5mm, Motorized	2.7-12mm, Motorized	2.7-12mm, Motorized	2.7-13.5mm, Motorized	2.7-13.5mm, Motorized
FOV-H	102°~33°	105°~33°	106°~35°	102°~33°	105°~33°	112°~35°
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR
Max. IR Distance	60m (197ft), Smart IR	30m (98ft), Smart IR	30m (98ft), Smart IR	30m (98ft), Smart IR	60m (197ft), Smart IR	LED: 40m (131ft), Smart IR
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
WDR	130dB	120dB	DWDR	DWDR	120dB	120dB
Noise Reduction	2D/3D	2D/3D	2D	2D	2D/3D	2D/3D
Frame Rate	30fps@1080P	15fps@4K 20fps@5MP 30fps@4MP	25fps@5MP (16:9) 30fps@4MP 30fps@1080P	30fps@1080P 30fps@720P	15fps@4K 20fps@5MP 30fps@4MP	25fps@5MP(16:9) 25fps@4MP 25fps@1080P
Video Output	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable
Audio In	Built-in Mic	--	--	--	Built-in Mic(-A)	Built-in Mic
Alarm In/Out	--	--	--	--	--	--
Pan/Tilt/Rotation	Pan: 0°~355°; Tilt: 0°~80° Rotation: 0°~355°	Pan: 0°~355°; Tilt: 0°~75° Rotation: 0°~355°	Pan: 0°~355°; Tilt: 0°~75° Rotation: 0°~355°	Pan: 0°~360°; Tilt: 0°~75° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°
Ingress Protection	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	IP67	IP67
Working Temperature	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)
Power	DC12V±30%, Max. 6.9W DC12V±10%/AC24V±25% Max. 9.5W(-DP)	DC12V±30% Max. 6.9W	DC12V±30%, Max. 5.5W DC12V±10%/AC24V±25% Max. 6.9W(-DP)	DC12V±30% Max. 6.3W	DC12V±30% Max. 7.8W	DC12V±30%, Max. 7.92W DC12V±10%/AC24V±25% Max. 9.9W(-DP)

# HDCVI CAMERAS

Lite Series

## Vari-focal Eyeball

Model	HAC-HDW1500T-Z(-A/DP)	HAC-HDW1239T-Z-A-LED(-DP)	HAC-HDW1231T-Z-A(-DP)	HAC-HDW1200T-Z(-A)	HAC-HDW1500TMQ-Z(-A/DP)	HAC-HDW1231TMQ-Z-A(-DP)
Appearance	 Starlight	 Full-Color	 Starlight	 Starlight	 Starlight	 Starlight
Image Sensor	1/2.7" 5MP(16:9) CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.7" 2MP CMOS	1/2.7" 5MP(16:9) CMOS	1/2.8" 2MP CMOS
Min. Illumination	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.001Lux/F1.2 (Color) 0Lux/F1.2 (LED On)	0.002Lux/F1.5 (Color) 0Lux/F1.5 (IR On)	0.02Lux/F1.7 (Color) 0Lux/F1.7 (IR On)	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.002Lux/F1.5 (Color) 0Lux/F1.5 (IR On)
Lens	2.7-12mm, Motorized	2.7-13.5mm, Motorized	2.7-12mm, Motorized	2.7-12mm, Motorized	2.7-12mm, Motorized	2.7-12mm, Motorized
FOV-H	106°~35°	107°~34°	102°~33°	102°~33°	106°~35°	102°~33°
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR
Max. IR Distance	60m (197ft), Smart IR	LED: 40m (131ft), Smart Light	60m (197ft), Smart IR	60m (197ft), Smart IR	60m (197ft), Smart IR	60m (197ft), Smart IR
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
WDR	DWDR	130dB	130dB	DWDR	DWDR	130dB
Noise Reduction	2D	2D/3D	2D/3D	2D	2D	2D/3D
Frame Rate	25fps@5MP(16:9) 30fps@4MP 30fps@1080P	30fps@1080P	30fps@1080P	30fps@1080P 30fps@720P	25fps@5MP(16:9) 30fps@4MP 30fps@1080P	30fps@1080P
Video Output	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable
Audio In	Built-in Mic(-A)	Built-in Mic	Built-in Mic	Built-in Mic(-A)	Built-in Mic(-A)	Built-in Mic
Alarm In/Out	--	--	--	--	--	--
Pan/Tilt/Rotation	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°
Ingress Protection	IP67	IP67	IP67	IP67	IP67	IP67
Working Temperature	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)
Power	DC12V±30%, Max. 6.6W DC12V±10%/AC24V±25% Max. 8.2W(-DP)	DC12V±30%, Max. 6.7W DC12V±10%/AC24V±25% Max. 8.2W(-DP)	DC12V±30%, Max. 8.2W DC12V±10%/AC24V±25% Max. 8.2W(-DP)	DC12V±30% Max. 8.2W	DC12V±30%, Max. 6.6W DC12V±10%/AC24V±25% Max. 8.2W(-DP)	DC12V±30%, Max. 6.1W DC12V±10%/AC24V±25% Max. 8.2W(-DP)







## Lite Series

	Vari-focal Eyeball	Fixed-focal Bullet				
Model	HAC-HDW1200TMQ-Z(-A)	HAC-HFW1801D	HAC-HFW1500D	HAC-HFW1200D	HAC-HFW1801TH-I8	HAC-HFW1800TH-I8
Appearance			 Starlight			 4K Real-time
Image Sensor	1/2.7" 2MP CMOS	1/2.7" 8MP CMOS	1/2.7" 5MP(16:9) CMOS	1/2.7" 2MP CMOS	1/2.7" 8MP CMOS	1/2.7" 8MP CMOS
Min. Illumination	0.02Lux/F1.7 (Color) 0Lux/F1.7 (IR On)	0.03Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.02Lux/F1.9 (Color) 0Lux/F1.9 (IR On)	0.03Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.03Lux/F2.0 (Color) 0Lux/F2.0 (IR On)
Lens	2.7-12mm, Motorized	3.6mm (6mm Optional)	3.6mm (6mm, 8mm Optional)	3.6mm (6mm, 8mm Optional)	3.6mm (6mm Optional)	3.6mm (6mm Optional)
FOV-H	102°~33°	87°(54.7°)	92°(57°/43°)	84°(56°/40°)	87°(54.7°)	87°(54.7°)
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR
Max. IR Distance	60m (197ft), Smart IR	80m (262ft), Smart IR	80m (262ft), Smart IR	80m (262ft), Smart IR	80m (262ft), Smart IR	80m (262ft), Smart IR
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
WDR	DWDR	120dB	DWDR	DWDR	120dB	DWDR
Noise Reduction	2D	2D/3D	2D	2D	2D/3D	2D
Frame Rate	30fps@1080P 30fps@720P	15fps@4K 20fps@5MP 30fps@4MP	25fps@5MP(16:9) 30fps@4MP 30fps@1080P	30fps@1080P 30fps@720P	15fps@4K 20fps@5MP 30fps@4MP	30fps@4K 20fps@5MP 30fps@4MP
Video Output	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable
Audio In	Built-in Mic(-A)	--	--	--	--	--
Alarm In/Out	--	--	--	--	--	--
Pan/Tilt/Rotation	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~87° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~87° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~87° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°
Ingress Protection	IP67	IP67	IP67	IP67	IP67	IP67
Working Temperature	-30°C~+60°C (-22°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)
Power	DC12V±30% Max. 6.1W	DC12V±30% Max. 6.5W	DC12V±30% Max. 4.9W	DC12V±30% Max. 4.9W	DC12V±30% Max. 5.9W	DC12V±30% Max. 6W

# HDCVI CAMERAS




Lite Series

## Fixed-focal Bullet

Model	HAC-HFW1500TH-I8	HAC-HFW1200TH-I8	HAC-HFW1801TH-I4	HAC-HFW1800TH-I4	HAC-HFW1500TH-I4	HAC-HFW1200TH-I4
Appearance	 Starlight			 4K Real-time	 Starlight	 Starlight
Image Sensor	1/2.7" 5MP(16:9) CMOS	1/2.7" 2MP CMOS	1/2.7" 8MP CMOS	1/2.7" 8MP CMOS	1/2.7" 5MP(16:9) CMOS	1/2.7" 2MP CMOS
Min. Illumination	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.02Lux/F1.9 (Color) 0Lux/F1.9 (IR On)	0.03Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.03Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.02Lux/F1.9 (Color) 0Lux/F1.9 (IR On)
Lens	3.6mm (6mm, 8mm Optional)	3.6mm (6mm, 8mm Optional)	3.6mm (2.8mm, 6mm Optional)	3.6mm (2.8mm,6mm Optional)	3.6mm ( 6mm Optional)	3.6mm (2.8mm, 6mm Optional)
FOV-H	92°(57°/43°)	84°(56°/40°)	87°(105°/54.7°)	87°(105°/54.7°)	92°(57°)	84°(101°/56°)
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR
Max. IR Distance	80m (262ft), Smart IR	80m (262ft), Smart IR	40m (131ft), Smart IR	40m (131ft), Smart IR	40m (131ft), Smart IR	40m (131ft), Smart IR
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
WDR	DWDR	DWDR	120dB	DWDR	DWDR	DWDR
Noise Reduction	2D	2D	2D/3D	2D	2D	2D
Frame Rate	25fps@5MP(16:9) 30fps@4MP 30fps@1080P	30fps@1080P 30fps@720P	15fps@4K 20fps@5MP 30fps@4MP	30fps@4K 20fps@5MP 30fps@4MP	25fps@5MP(16:9) 30fps@4MP 30fps@1080P	30fps@1080P 30fps@720P
Video Output	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable
Audio In	--	--	--	--	--	--
Alarm In/Out	--	--	--	--	--	--
Pan/Tilt/Rotation	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°
Ingress Protection	IP67	IP67	IP67	IP67	IP67	IP67
Working Temperature	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)
Power	DC12V±30% Max. 5.2W	DC12V±30% Max. 4.9W	DC12V±30% Max. 4.4W	DC12V±30% Max. 4.3W	DC12V±30% Max. 3.2W	DC12V±30% Max. 2.8W

## Lite Series







## Fixed-focal Bullet

Model	HAC-HFW1231TM-I8-A	HAC-HFW1801TL-A	HAC-HFW1800TL-A	HAC-HFW1500TL-A	HAC-HFW1200TL-A	HAC-HFW1801TL
Appearance			 4K Real-time	 Starlight		
Image Sensor	1/2.8" 2MP CMOS	1/2.7" 8MP CMOS	1/2.7" 8MP CMOS	1/2.7" 5MP(16:9) CMOS	1/2.7" 2MP CMOS	1/2.7" 8MP CMOS
Min. Illumination	0.002Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.03Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.03Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.02Lux/F1.9 (Color) 0Lux/F1.9 (IR On)	0.03Lux/F2.0 (Color) 0Lux/F2.0 (IR On)
Lens	3.6mm (2.8mm, 6mm, 8mm Optional)	3.6mm (2.8mm, 6mm Optional)	3.6mm (2.8mm,6mm Optional)	3.6mm (2.8mm, 6mm, 8mm Optional)	3.6mm (2.8mm, 6mm Optional)	3.6mm (2.8mm, 6mm Optional)
FOV-H	86°(107°/54°/41°)	87°(105°/54.7°)	87°(105°/54.7°)	92°(111°/57°/43°)	84°(101°/56°)	87°(105°/54.7°)
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR
Max. IR Distance	80m (262ft), Smart IR	80m (262ft), Smart IR	80m (262ft), Smart IR	80m (262ft), Smart IR	80m (262ft), Smart IR	80m (262ft), Smart IR
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
WDR	130dB	120dB	DWDR	DWDR	DWDR	120dB
Noise Reduction	2D/3D	2D/3D	2D	2D	2D	2D/3D
Frame Rate	30fps@1080P	15fps@4K 20fps@5MP 30fps@4MP	30fps@4K 20fps@5MP 30fps@4MP	25fps@5MP(16:9) 30fps@4MP 30fps@1080P	30fps@1080P 30fps@720P	15fps@4K 20fps@5MP 30fps@4MP
Video Output	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable
Audio In	Built-in Mic	Built-in Mic	Built-in Mic	Built-in Mic	Built-in Mic	--
Alarm In/Out	--	--	--	--	--	--
Pan/Tilt/Rotation	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°
Ingress Protection	IP67	IP67	IP67	IP67	IP67	IP67
Working Temperature	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)
Power	DC12V±30% Max. 5.1W	DC12V±30% Max. 6.6W	DC12V±30% Max. 6W	DC12V±30% Max. 5.2W	DC12V±30% Max. 4.9W	DC12V±30% Max. 6.6W

# HDCVI CAMERAS







Lite Series

## Fixed-focal Bullet

Model	HAC-HFW1800TL	HAC-HFW1500TL	HAC-HFW1200TL	HAC-HFW1509TLM(-A)-LED	HAC-HFW1239TLM(-A)-LED	HAC-HFW1231TLM-I6(-A)
Appearance	 4K Real-time	 Starlight		 Full-color	 Full-color	 Starlight
Image Sensor	1/2.7" 8MP CMOS	1/2.7" 5MP(16:9) CMOS	1/2.7" 2MP CMOS	1/2.7" 5MP(16:9) CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS
Min. Illumination	0.03Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.02Lux/F1.9 (Color) 0Lux/F1.9 (IR On)	0.001Lux/F1.0 (Color) 0Lux/F1.0 (LED On)	0.001Lux/F1.6 (Color) 0Lux/F1.6 (LED On)	0.002Lux/F1.6 (Color) 0Lux/F1.6 (IR On)
Lens	3.6mm (2.8mm,6mm Optional)	3.6mm (2.8mm, 6mm Optional)	3.6mm (2.8mm, 6mm Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm, 6mm Optional)
FOV-H	87°(105°/54.7°)	92°(111°/57°)	84°(101°/56°)	88°(112°)	86°(107°)	86°(107°/54°)
Day/Night	ICR	ICR	ICR	Color	ICR	ICR
Max. IR Distance	80m (262ft), Smart IR	40m (131ft), Smart IR	40m (131ft), Smart IR	LED: 40m (131ft), Smart Light	LED: 40m (131ft), Smart Light	60m (197ft), Smart IR
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
WDR	DWDR	DWDR	DWDR	120dB	130dB	130dB
Noise Reduction	2D	2D	2D	2D/3D	2D/3D	2D/3D
Frame Rate	30fps@4K 20fps@5MP 30fps@4MP	25fps@5MP(16:9) 30fps@4MP 30fps@1080P	30fps@1080P 30fps@720P	25fps@5MP(16:9) 30fps@4MP 30fps@1080P	30fps@1080P	30fps@1080P
Video Output	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable
Audio In	--	--	--	Built-in Mic(-A)	Built-in Mic(-A)	Built-in Mic(-A)
Alarm In/Out	--	--	--	--	--	--
Pan/Tilt/Rotation	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°
Ingress Protection	IP67	IP67	IP67	IP67	IP67	IP67
Working Temperature	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)
Power	DC12V±30% Max. 6W	DC12V±30% Max. 3.1W	DC12V±30% Max. 2.8W	DC12V±30% Max. 6.4W	DC12V±30% Max. 5.1W	DC12V±30% Max. 5.1W

## Lite Series

## Fixed-focal Bullet







Model	HAC-HFW1509MH-A-LED	HAC-HFW1239MH-A-LED	HAC-HFW1801T(-A)	HAC-HFW1800T(-A)	HAC-HFW1500T(-A)	HAC-HFW1200T(-A)
Appearance	 Full-color	 Full-color		 4K Real-time	 Starlight	
Image Sensor	1/2.7" 8MP CMOS	1/2.8" 2MP CMOS	1/2.7" 8MP CMOS	1/2.7" 8MP CMOS	1/2.7" 5MP(16:9) CMOS	1/2.7" 2MP CMOS
Min. Illumination	0.001Lux/F1.0 (Color) 0Lux/F1.0 (LED On)	0.001Lux/F1.6 (Color) 0Lux/F1.6 (LED On)	0.03Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.03Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.02Lux/F1.9 (Color) 0Lux/F1.9 (IR On)
Lens	3.6mm (6mm Optional)	3.6mm (6mm Optional)	3.6mm (2.8mm, 6mm Optional)	3.6mm (2.8mm, 6mm Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm, 6mm Optional)
FOV-H	88°(59°)	86°(54°)	87°(105°/54.7°)	87°(105°/54.7°)	92°(111°)	84°(101°/56°)
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR
Max. IR Distance	LED: 50m (1641ft), Smart Light	LED: 50m (1641ft), Smart Light	30m (98ft), Smart IR	30m (98ft), Smart IR	30m (98ft), Smart IR	30m (98ft), Smart IR
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
WDR	120dB	130dB	120dB	DWDR	DWDR	DWDR
Noise Reduction	2D/3D	2D/3D	2D/3D	2D	2D	2D
Frame Rate	25fps@5MP(16:9) 25fps@4MP 25fps@1080P	30fps@1080P	15fps@4K 20fps@5MP 30fps@4MP	30fps@4K 20fps@5MP 30fps@4MP	25fps@5MP(16:9) 30fps@4MP 30fps@1080P	30fps@1080P 30fps@720P
Video Output	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable
Audio In	Built-in Mic	Built-in Mic	Built-in Mic(-A)	Built-in Mic(-A)	Built-in Mic(-A)	Built-in Mic(-A)
Alarm In/Out	--	--	--	--	--	--
Pan/Tilt/Rotation	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°
Ingress Protection	IP67	IP67	IP67	IP67	IP67	IP67
Working Temperature	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)
Power	DC12V±30% Max. 6.4W	DC12V±30% Max. 5.1W	DC12V±30% Max. 5.2W	DC12V±30% Max. 4.3W	DC12V±30% Max. 3.2W	DC12V±30% Max. 3.3W



# HDCVI CAMERAS







## Lite Series

### Fixed-focal Bullet

Model	HAC-HFW1509T(-A)-LED	HAC-HFW1239T(-A)-LED	HAC-HFW1801S	HAC-HFW1200S	HAC-HFW1500CM(-A)	HAC-HFW1231CM(-A)
Appearance	 Full-color	 Full-color			 Starlight	 Starlight
Image Sensor	1/2.7" 5MP(16:9) CMOS	1/2.8" 2MP CMOS	1/2.7" 8MP CMOS	1/2.7" 2MP CMOS	1/2.7" 5MP(16:9) CMOS	1/2.8" 2MP CMOS
Min. Illumination	0.001Lux/F1.0 (Color) 0Lux/F1.0 (LED On)	0.001Lux/F1.6 (Color) 0Lux/F1.6 (LED On)	0.03Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.02Lux/F1.9 (Color) 0Lux/F1.9 (IR On)	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.002Lux/F1.6 (Color) 0Lux/F1.6 (IR On)
Lens	3.6mm (2.8mm Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm, 6mm Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm Optional)
FOV-H	88°(112°)	86°(107°)	87°(105°/54.7°)	84°(101°)	92°(111°)	86°(107°)
Day/Night	Color	Color	ICR	ICR	ICR	ICR
Max. IR Distance	LED: 20m (66ft), Smart Light	LED: 20m (66ft), Smart Light	30m (98ft), Smart IR	30m (98ft), Smart IR	30m (98ft), Smart IR	30m (98ft), Smart IR
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
WDR	120dB	130dB	120dB	DWDR	DWDR	130dB
Noise Reduction	2D/3D	2D/3D	2D/3D	2D	2D	2D/3D
Frame Rate	25fps@5MP(16:9) 30fps@4MP 30fps@1080P	30fps@1080P	15fps@4K 20fps@5MP 30fps@4MP	30fps@1080P 30fps@720P	25fps@5MP(16:9) 30fps@4MP 30fps@1080P	30fps@1080P
Video Output	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable
Audio In	Built-in Mic(-A)	Built-in Mic(-A)	--	--	Built-in Mic(-A)	Built-in Mic(-A)
Alarm In/Out	--	--	--	--	--	--
Pan/Tilt/Rotation	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°
Ingress Protection	IP67	IP67	IP67	IP67	IP67	IP67
Working Temperature	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)
Power	DC12V±30% Max. 4.4W	DC12V±30% Max. 3W	DC12V±30% Max. 6W	DC12V±30% Max. 4.1W	DC12V±30% Max. 3.7W	DC12V±30% Max. 3W






## Lite Series

## Fixed-focal Bullet

Model	HAC-HFW1200CM(-A)	HAC-HFW1509C(-A)-LED	HAC-HFW1500C(-A)	HAC-HFW1239C(-A)-LED	HAC-HFW1231C-A	HAC-HFW1200C(-A)
Appearance						
Image Sensor	1/2.7" 2MP CMOS	1/2.7" 5MP(16:9) CMOS	1/2.7" 5MP(16:9) CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.7" 2MP CMOS
Min. Illumination	0.02Lux/F1.9 (Color) 0Lux/F1.9 (IR On)	0.001Lux/F1.0 (Color) 0Lux/F1.0 (IR On)	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.001Lux/F1.6 (Color) 0Lux/F1.6 (LED On)	0.002Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.02Lux/F1.9 (Color) 0Lux/F1.9 (IR On)
Lens	3.6mm (2.8mm Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm Optional)
FOV-H	84°(101°)	88°(112°)	92°(111°)	86°(107°)	86°(107°)	84°(101°)
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR
Max. IR Distance	30m (98ft), Smart IR	20m (66ft), Smart IR	30m (98ft), Smart IR	LED: 20m (66ft), Smart Light	30m (98ft), Smart IR	30m (98ft), Smart IR
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
WDR	DWDR	120dB	DWDR	130dB	130dB	DWDR
Noise Reduction	2D	2D/3D	2D	2D/3D	2D/3D	2D
Frame Rate	30fps@1080P 30fps@720P	25fps@5MP(16:9) 25fps@4MP 25fps@1080P	25fps@5MP(16:9) 30fps@4MP 30fps@1080P	30fps@1080P	30fps@1080P	30fps@1080P 30fps@720P
Video Output	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable
Audio In	Built-in Mic(-A)	Built-in Mic(-A)	Built-in Mic(-A)	Built-in Mic(-A)	Built-in Mic	Built-in Mic(-A)
Alarm In/Out	--	--	--	--	--	--
Pan/Tilt/Rotation	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°
Ingress Protection	IP67	IP67	IP67	IP67	IP67	IP67
Working Temperature	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)
Power	DC12V±30% Max. 2.7W	DC12V±30% Max. 4.4W	DC12V±30% Max. 3.7W	DC12V±30% Max. 3.3W	DC12V±30% Max. 3W	DC12V±30% Max. 2.7W






# HDCVI CAMERAS

## Lite Series

	Fixed-focal Bullet	Fixed-focal Dome			
Model	HAC-HFW1200R	HAC-HDBW1231EA-A	HAC-HDBW1801E	HAC-HDBW1500E	HAC-HDBW1200E
Appearance		 Starlight		 Starlight	
Image Sensor	1/2.7" 2MP CMOS	1/2.8" 2MP CMOS	1/2.7" 8MP CMOS	1/2.7" 5MP(16:9) CMOS	1/2.7" 2MP CMOS
Min. Illumination	0.02Lux/F1.9 (Color) 0Lux/F1.9 (IR On)	0.002Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.03Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.02Lux/F1.9 (Color) 0Lux/F1.9 (IR On)
Lens	3.6mm (2.8mm, 6mm Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm Optional)
FOV-H	84°(101°/56°)	86°(107°)	87°(105°)	92°(111°)	84°(101°)
Day/Night	ICR	ICR	ICR	ICR	ICR
Max. IR Distance	20m (66ft), Smart IR	40m (131.2ft), Smart IR	30m (98ft), Smart IR	30m (98ft), Smart IR	30m (98ft), Smart IR
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
WDR	DWDR	130dB	120dB	DWDR	DWDR
Noise Reduction	2D	2D/3D	2D/3D	2D	2D
Frame Rate	30fps@1080P 30fps@720P	30fps@1080P	15fps@4K 20fps@5MP 30fps@4MP	25fps@5MP(16:9) 30fps@4MP 30fps@1080P	30fps@1080P 30fps@720P
Video Output	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable
Audio In	--	Built-in Mic	--	--	--
Alarm In/Out	--	--	--	--	--
Pan/Tilt/Rotation	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~355°; Tilt: 0°~80° Rotation: 0°~355°	Pan: 0°~355°; Tilt: 0°~65° Rotation: 0°~355°	Pan: 0°~355°; Tilt: 0°~65° Rotation: 0°~355°	Pan: 0°~355°; Tilt: 0°~65° Rotation: 0°~355°
Ingress Protection	IP67	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10
Working Temperature	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)
Power	DC12V±30% Max. 3.1W	DC12V±30% Max. 3W	DC12V±30% Max. 4.8W	DC12V±30% Max. 3.5W	DC12V±25% Max. 3.4W

## Lite Series






## Fixed-focal Eyeball

Model	HAC-HDW1801EM(-A)	HAC-HDW1200EM(-A)	HAC-HDW1500TMQ(-A)	HAC-HDW1231TMQ-A	HAC-HDW1200TMQ(-A)
Appearance					
Image Sensor	1/2.7" 8MP CMOS	1/2.7" 2MP CMOS	1/2.7" 5MP(16:9) CMOS	1/2.8" 2MP CMOS	1/2.7" 2MP CMOS
Min. Illumination	0.03Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.02Lux/F1.9 (Color) 0Lux/F1.9 (IR On)	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.002Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.02Lux/F1.9 (Color) 0Lux/F1.9 (IR On)
Lens	3.6mm (6mm Optional)	3.6mm (2.8mm, 6mm Optional)	3.6mm (2.8mm, 6mm Optional)	3.6mm (2.8mm, 6mm Optional)	3.6mm (2.8mm, 6mm Optional)
FOV-H	87°(54.7°)	84°(101°/56°)	92°(111°/57°)	86°(107°/54°)	84°(101°/56°)
Day/Night	ICR	ICR	ICR	ICR	ICR
Max. IR Distance	50m (164ft), Smart IR	50m (164ft), Smart IR	60m (197ft), Smart IR	60m (197ft), Smart IR	60m (197ft), Smart IR
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
WDR	120dB	DWDR	DWDR	130dB	DWDR
Noise Reduction	2D/3D	2D	2D	2D/3D	2D
Frame Rate	15fps@4K 20fps@5MP 30fps@4MP	30fps@1080P 30fps@720P	25fps@5MP(16:9) 30fps@4MP 30fps@1080P	30fps@1080P	30fps@1080P 30fps@720P
Video Output	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable
Audio In	Built-in Mic(-A)	Built-in Mic(-A)	Built-in Mic(-A)	Built-in Mic	Built-in Mic(-A)
Alarm In/Outi	--	--	--	--	--
Pan/Tilt/Rotation	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°
Ingress Protection	IP67	IP67	IP67	IP67	IP67
Working Temperature	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)
Power	DC12V±30% Max. 4.5W	DC12V±30% Max. 3.2W	DC12V±30% Max. 5.2W	DC12V±30% Max. 5.1W	DC12V±30% Max. 4.9W

# HDCVI CAMERAS







Lite Series

## Fixed-focal Eyeball

Model	HAC-HDW1500TQ(-A)	HAC-HDW1231TQ-A	HAC-HDW1200TQ(-A)	HAC-HDW1509T(-A)-LED	HAC-HDW1239T(-A)-LED
Appearance	 Starlight	 Starlight		 Full-color	 Full-color
Image Sensor	1/2.7" 5MP(16:9) CMOS	1/2.8" 2MP CMOS	1/2.7" 2MP CMOS	1/2.7" 5MP(16:9) CMOS	1/2.8" 2MP CMOS
Min. Illumination	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.002Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.02Lux/F1.9 (Color) 0Lux/F1.9 (IR On)	0.001Lux/F1.0 (Color) 0Lux/F1.0 (LED On)	0.001Lux/F1.6 (Color) 0Lux/F1.6 (LED On)
Lens	3.6mm (2.8mm, 6mm Optional)	3.6mm (2.8mm, 6mm Optional)	3.6mm (2.8mm, 6mm Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm Optional)
FOV-H	92°(111°/57°)	86°(107°/54°)	84°(101°/56°)	88° (112°)	86°(107°)
Day/Night	ICR	ICR	ICR	Color	Color
Max. IR Distance	40m (131ft), Smart IR	40m (131ft), Smart IR	40m (131ft), Smart IR	LED: 40m (131ft), Smart Light	LED: 40m (131ft), Smart Light
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
WDR	DWDR	130dB	DWDR	120dB	130dB
Noise Reduction	2D	2D/3D	2D	2D/3D	2D/3D
Frame Rate	25fps@5MP(16:9) 30fps@4MP 30fps@1080P	30fps@1080P	30fps@1080P 30fps@720P	25fps@5MP(16:9) 30fps@4MP 30fps@1080P	30fps@1080P
Video Output	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable
Audio In	Built-in Mic(-A)	Built-in Mic	Built-in Mic(-A)	Built-in Mic(-A)	Built-in Mic(-A)
Alarm In/Out	--	--	--	--	--
Pan/Tilt/Rotation	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°
Ingress Protection	IP67	IP67	IP67	IP67	IP67
Working Temperature	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)
Power	DC12V±30% Max. 3.2W	DC12V±30% Max. 3.1W	DC12V±30% Max. 2.9W	DC12V±30% Max. 6.4W	DC12V±30% Max.5.1W

## Lite Series







## Fixed-focal Eyeball

Model	HAC-HDW1801TL(-A)	HAC-HDW1800TL(-A)	HAC-HDW1200TL-A	HAC-HDW1500TLMQ(-A)	HAC-HDW1231TLMQ(-A)	HAC-HDW1200TLMQ(-A)
Appearance		 4K Real-time		 Starlight	 Starlight	
Image Sensor	1/2.7" 8MP CMOS	1/2.7" 8MP CMOS	1/2.7" 2MP CMOS	1/2.7" 5MP(16:9) CMOS	1/2.8" 2MP CMOS	1/2.7" 2MP CMOS
Min. Illumination	0.03Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.03Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.02Lux/F1.9 (Color) 0Lux/F1.9 (IR On)	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.002Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.02Lux/F1.9 (Color) 0Lux/F1.9 (IR On)
Lens	3.6mm (2.8mm Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm Optional)
FOV-H	87°(105°)	87°(105°)	84°(101°)	92°(111°)	86°(107°)	84°(101°)
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR
Max. IR Distance	30m (98ft), Smart IR	30m (98ft), Smart IR	30m (98ft), Smart IR	30m (98ft), Smart IR	30m (98ft), Smart IR	30m (98ft), Smart IR
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
WDR	120dB	DWDR	DWDR	DWDR	130dB	DWDR
Noise Reduction	2D/3D	2D	2D	2D	2D/3D	2D
Frame Rate	15fps@4K 20fps@5MP 30fps@4MP	30fps@4K 20fps@5MP 30fps@4MP	30fps@1080P 30fps@720P	25fps@5MP(16:9) 30fps@4MP 30fps@1080P	30fps@1080P	30fps@1080P 30fps@720P
Video Output	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable
Audio In	Built-in Mic(-A)	Built-in Mic(-A)	Built-in Mic	Built-in Mic(-A)	Built-in Mic	Built-in Mic(-A)
Alarm In/Out	--	--	--	--	--	--
Pan/Tilt/Rotation	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°
Ingress Protection	IP67	IP67	IP67	IP67	IP67	IP67
Working Temperature	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)
Power	DC12V±30% Max. 5.2W	DC12V±30% Max. 4.3W	DC12V±30% Max. 3.3W	DC12V±30% Max. 3.2W	DC12V±30% Max. 3.1W	DC12V±30% Max. 2.9W

# HDCVI CAMERAS






Lite Series

## Fixed-focal Eyeball

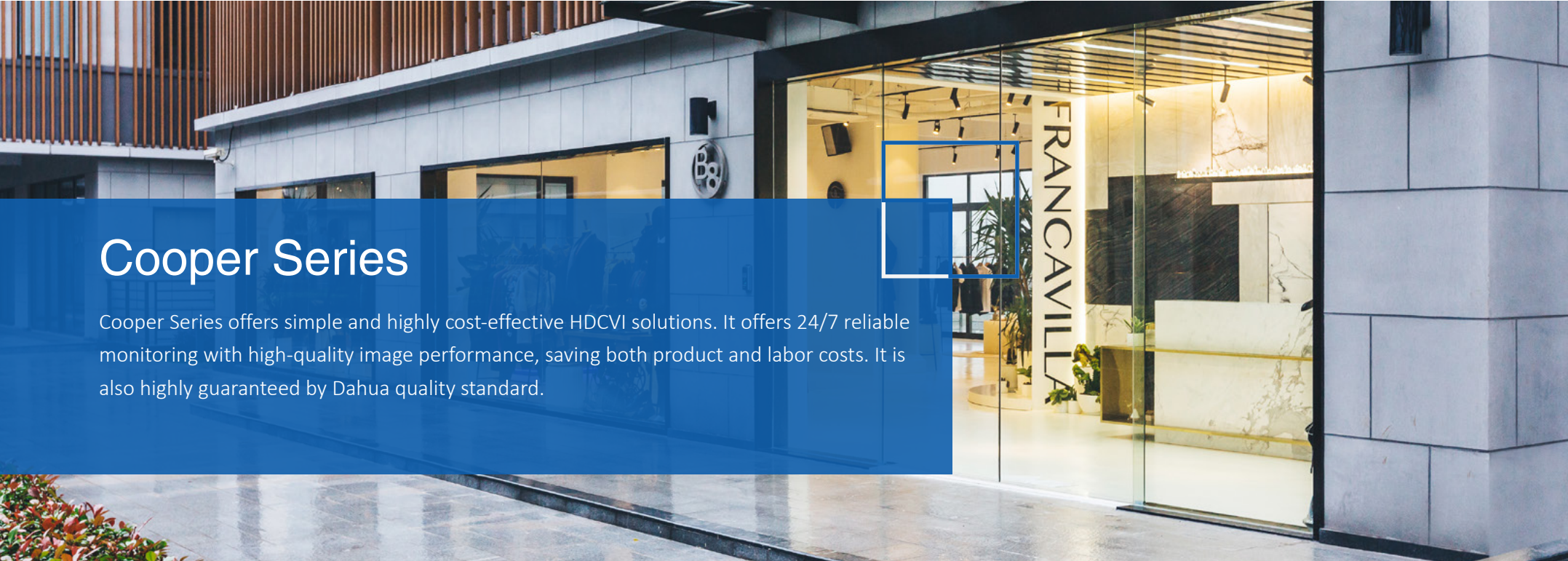
Model	HAC-HDW1801M	HAC-HDW1800M	HAC-HDW1200M	HAC-HDW1509TLQ(-A)-LED	HAC-HDW1500TLQ-A	HAC-HDW1239TLQ(-A)-LED
Appearance						
Image Sensor	1/2.7" 8MP CMOS	1/2.7" 8MP CMOS	1/2.7" 2MP CMOS	1/2.7" 5MP(16:9) CMOS	1/2.7" 5MP(16:9) CMOS	1/2.8" 2MP CMOS
Min. Illumination	0.03Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.03Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.02Lux/F1.9 (Color) 0Lux/F1.9 (IR On)	0.001Lux/F1.0 (Color) 0Lux/F1.0 (LED On)	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.001Lux/F1.6 (Color) 0Lux/F1.6 (LED On)
Lens	3.6mm (2.8mm Optional)	3.6mm (2.8mm,6mm Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm Optional)
FOV-H	87°(105°)	87°(105°/54.7°)	84°(101°)	88° (112°)	92° (111°)	86°(107°)
Day/Night	ICR	ICR	ICR	Color	ICR	ICR
Max. IR Distance	30m (98ft), Smart IR	30m (98ft), Smart IR	30m (98ft), Smart IR	LED: 20m (66ft), Smart Light	30m (98ft), Smart IR	LED: 20m (66ft), Smart Light
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
WDR	120dB	DWDR	DWDR	120dB	DWDR	130dB
Noise Reduction	2D/3D	2D	2D	2D/3D	2D	2D/3D
Frame Rate	15fps@4K 20fps@5MP 30fps@4MP	30fps@4K 20fps@5MP 30fps@4MP	30fps@1080P 30fps@720P	25fps@5MP(16:9) 30fps@4MP 30fps@1080P	25fps@5MP(16:9) 30fps@4MP 30fps@1080P	30fps@1080P
Video Output	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable
Audio In	--	--	--	Built-in Mic(-A)	Built-in Mic	Built-in Mic(-A)
Alarm In/Out	--	--	--	--	--	--
Pan/Tilt/Rotation	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°
Ingress Protection	IP67	IP67	IP67	IP67	IP67	IP67
Working Temperature	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)
Power	DC12V±30% Max. 4.9W	DC12V±30% Max. 4.3W	DC12V±30% Max. 3.1W	DC12V±30% Max. 4.4W	DC12V±30% Max. 3.2W	DC12V±30% Max. 3.3W

## Lite Series

## Fixed-focal Eyeball

Model	HAC-HDW1500TRQ(-A)	HAC-HDW1231TRQ-A	HAC-HDW1200TRQ(-A)	HAC-HDW1200R	HAC-HDW1231G-A
Appearance	 Starlight	 Starlight			 Starlight
Image Sensor	1/2.7" 5MP(16:9) CMOS	1/2.8" 2MP CMOS	1/2.7" 2MP CMOS	1/2.7" 2MP CMOS	1/2.8" 2MP CMOS
Min. Illumination	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.002Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.02Lux/F1.9 (Color) 0Lux/F1.9 (IR On)	0.02Lux/F1.9 (Color) 0Lux/F1.9 (IR On)	0.002Lux/F1.6 (Color) 0Lux/F1.6 (IR On)
Lens	3.6mm (2.8mm Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm Optional)
FOV-H	92° (111°)	86°(107°)	84° (101°)	84° (101°)	86°(107°)
Day/Night	ICR	ICR	ICR	ICR	ICR
Max. IR Distance	25m (82ft), Smart IR	30m (98ft), Smart IR	25m (82ft), Smart IR	20m (66ft), Smart IR	30m (98ft), Smart IR
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
WDR	DWDR	130dB	DWDR	DWDR	130dB
Noise Reduction	2D	2D/3D	2D	2D	2D/3D
Frame Rate	25fps@5MP(16:9) 30fps@4MP 30fps@1080P	30fps@1080P	30fps@1080P 30fps@720P	30fps@1080P 30fps@720P	30fps@1080P
Video Output	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable
Audio In	Built-in Mic (-A)	Built-in Mic	Built-in Mic (-A)	--	Built-in Mic
Alarm In/Out	--	--	--	--	--
Pan/Tilt/Rotation	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°
Ingress Protection	--	--	--	--	IP67
Working Temperature	-40°C~+60°C (-40°F~+140°F)	-40°C~+50°C (-40°F~+122°F)	-40°C~+50°C (-40°F~+122°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)
Power	DC12V±30% Max. 3.0W	DC12V±30% Max. 2.8W	DC12V±30% Max. 2.6W	DC12V±30% Max. 3.1W	DC12V±30% Max. 2.4W





# Cooper Series

Cooper Series offers simple and highly cost-effective HDCVI solutions. It offers 24/7 reliable monitoring with high-quality image performance, saving both product and labor costs. It is also highly guaranteed by Dahua quality standard.



### Reliable Monitoring

Cooper Series provides bright and clear image with rich details day and night. It offers up to 5MP resolution and vari-focal/ fixed lens options to fit various scenarios.



### Dahua Quality







Cooper Series is designed with complete structure and hardware protection and is fully in line with Dahua's quality assurance standard.



### Cost Saving

With real plug & play and compact housing, this series allows easy installation that saves time and labor costs. Its competitive price also saves system deployment for customers.

## Cooper Series

	Vari-focal Bullet			Vari-focal Dome		
Model	HAC-B4A21-VF	HAC-B3A51-Z	HAC-B3A21-Z	HAC-D3A21-VF	HAC-D3A51-Z	HAC-D3A21-Z
Appearance						
Image Sensor	1/2.7" 2MP CMOS	1/2.7" 5MP(16:9) CMOS	1/2.7" 2MP CMOS	1/2.7" 2MP CMOS	1/2.7" 5MP(16:9) CMOS	1/2.7" 2MP CMOS
Min. Illumination	0.04Lux/F1.8 (Color) 0Lux/F1.8 (IR On)	0.01Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.04Lux/F1.7 (Color) 0Lux/F1.7 (IR On)	0.04Lux/F1.8 (Color) 0Lux/F1.8 (IR On)	0.01Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.04Lux/F1.7 (Color) 0Lux/F1.7 (IR On)
Lens	2.7~12mm, Manual	2.7~12mm, Motorized	2.7~12mm, Motorized	2.7~12mm, Manual	2.7~12mm, Motorized	2.7~12mm, Motorized
FOV-H	106°~33°	106°~35°	102°~33°	106°~33°	106°~35°	102°~33°
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR
Max. IR Distance	40m (131ft), Smart IR	40m (131ft), Smart IR	40m (131ft), Smart IR	30m (98ft), Smart IR	30m (98ft), Smart IR	30m (98ft), Smart IR
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
WDR	DWDR	DWDR	DWDR	DWDR	DWDR	DWDR
Noise Reduction	2D	2D	2D	2D	2D	2D
Frame Rate	30fps@1080P 30fps@720P	25fps@5MP(16:9) 30fps@4MP 30fps@1080P	30fps@1080P 30fps@720P	30fps@1080P 30fps@720P	25fps@5MP(16:9) 30fps@4MP 30fps@1080P	30fps@1080P 30fps@720P
Video Output	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable
Audio In	--	--	--	--	--	--
Alarm In/Out	--	--	--	--	--	--
Pan/Tilt/Rotation	Pan: 0°~360°; Tilt: 0°~87° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~355°; Tilt: 0°~75° Rotation: 0°~355°	Pan: 0°~355°; Tilt: 0°~75° Rotation: 0°~355°	Pan: 0°~355°; Tilt: 0°~75° Rotation: 0°~355°
Ingress Protection	IP67	IP67	IP67	IP67	IP67	IP67
Working Temperature	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)
Power	DC12V±30% Max. 4.4W	DC12V±30% Max. 6.6W	DC12V±30% Max. 6.6W	DC12V±30% Max. 3.5W	DC12V±30% Max. 5.3W	DC12V±30% Max. 5.3W






# HDCVI CAMERAS

## Cooper Series

	Vari-focal Eyeball			Fixed-focal Bullet			
Model	HAC-T3A21-VF	HAC-T3A51-Z	HAC-T3A21-Z	HAC-B2A51	HAC-B2A21	HAC-B1A51	HAC-B1A21
Appearance							
Image Sensor	1/2.7" 2MP CMOS	1/2.7" 5MP(16:9) CMOS	1/2.7" 2MP CMOS	1/2.7" 5MP(16:9) CMOS	1/2.7" 2MP CMOS	1/2.7" 5MP(16:9) CMOS	1/2.7" 2MP CMOS
Min. Illumination	0.04Lux/F1.8 (Color) 0Lux/F1.8 (IR On)	0.01Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.04Lux/F1.7 (Color) 0Lux/F1.7 (IR On)	0.02Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.04Lux/F1.85 (Color) 0Lux/F1.85 (IR On)	0.02Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.04Lux/F1.85 (Color) 0Lux/F1.85 (IR On)
Lens	2.7~12mm, Manual	2.7~12mm, Motorized	2.7~12mm, Motorized	3.6mm (2.8mm Optional)	3.6mm (2.8mm,6mm Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm,6mm Optional)
FOV-H	106°~33°	106°~35°	102°~33°	88°(106°)	93°(103°/54.7°)	88°(106°)	93°(103°/54.7°)
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR	ICR
Max. IR Distance	40m (131ft), Smart IR	40m (131ft), Smart IR	40m (131ft), Smart IR	20m (66ft), Smart IR	20m (66ft), Smart IR	20m (66ft), Smart IR	20m (66ft), Smart IR
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
WDR	DWDR	DWDR	DWDR	DWDR	DWDR	DWDR	DWDR
Noise Reduction	2D	2D	2D	2D	2D	2D	2D
Frame Rate	30fps@1080P 30fps@720P	25fps@5MP(16:9) 30fps@4MP 30fps@1080P	30fps@1080P 30fps@720P	25fps@5MP(16:9) 30fps@4MP 30fps@1080P	30fps@1080P 30fps@720P	25fps@5MP(16:9) 30fps@4MP 30fps@1080P	30fps@1080P 30fps@720P
Video Output	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable
Audio In	--	--	--	--	--	--	--
Alarm In/Out	--	--	--	--	--	--	--
Pan/Tilt/Rotation	Pan: 0°~355°; Tilt: 0°~75° Rotation: 0°~355°	Pan: 0°~355°; Tilt: 0°~75° Rotation: 0°~355°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°
Ingress Protection	IP67	IP67	IP67	IP67	IP67	IP67	IP67
Working Temperature	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)
Power	DC12V±30% Max. 4.6W	DC12V±30% Max. 6.6W	DC12V±30% Max. 6.6W	DC12V±30% Max. 3.7W	DC12V±30% Max. 2.7W	DC12V±30% Max. 3.7W	DC12V±30% Max. 2.7W

## Cooper Series

## Fixed-focal Eyeball

Model	HAC-D1A51	HAC-D1A21	HAC-T2A51	HAC-T2A21	HAC-T1A51	HAC-T1A21
Appearance						
Image Sensor	1/2.7" 5MP(16:9) CMOS	1/2.7" 2MP CMOS	1/2.7" 5MP(16:9) CMOS	1/2.7" 2MP CMOS	1/2.7" 5MP(16:9) CMOS	1/2.7" 2MP CMOS
Min. Illumination	0.02Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.04Lux/F1.85 (Color) 0Lux/F1.85 (IR On)	0.02Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.04Lux/F1.85 (Color) 0Lux/F1.85 (IR On)	0.02Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.04Lux/F1.85 (Color) 0Lux/F1.85 (IR On)
Lens	3.6mm (2.8mm Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm, 6mm Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm, 6mm Optional)
FOV-H	88°(106°)	93°(103°)	88°(106°)	93°(103°/54.7°)	88°(106°)	93°(103°/54.7°)
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR
Max. IR Distance	20m (66ft), Smart IR	20m (66ft), Smart IR	20m (66ft), Smart IR	20m (66ft), Smart IR	20m (66ft), Smart IR	20m (66ft), Smart IR
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
WDR	DWDR	DWDR	DWDR	DWDR	DWDR	DWDR
Noise Reduction	2D	2D	2D	2D	2D	2D
Frame Rate	25fps@5MP(16:9) 30fps@4MP 30fps@1080P	30fps@1080P 30fps@720P	25fps@5MP(16:9) 30fps@4MP 30fps@1080P	30fps@1080P 30fps@720P	25fps@5MP(16:9) 30fps@4MP 30fps@1080P	30fps@1080P 30fps@720P
Video Output	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable
Audio In	--	--	--	--	--	--
Alarm In/Out	--	--	--	--	--	--
Pan/Tilt/Rotation	Pan: 0°~355°; Tilt: 0°~70° Rotation: 0°~355°	Pan: 0°~355°; Tilt: 0°~70° Rotation: 0°~355°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°
Ingress Protection	--	--	IP67	IP67	--	--
Working Temperature	-40°C~+45°C (-40°F~+113°F)	-40°C~+45°C (-40°F~+113°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+55°C (-40°F~+131°F)	-40°C~+55°C (-40°F~+131°F)
Power	DC12V±30% Max. 3.2W	DC12V±30% Max. 3.0W	DC12V±30% Max. 3.7W	DC12V±30% Max. 2.7W	DC12V±30% Max. 2.7W	DC12V±30% Max. 2.3W



# Active Deterrence Series

Active Deterrence Series provides multi-dimensional system that links video with audio, information and alarm to verify potential risks. Active deterrence camera can actively warn off intruders with light and siren, alert users in real-time with alarm-over-coax, and provide visual verification with HDCVI video.



## Active Deterrence

Instead of checking recordings and taking action after an incident, active deterrence camera with embedded light and siren warns off intruders on time, which can help prevent incident from happening and protect lives and properties.



## Accurate Alarm

With PIR and motion dual detection, the PIR camera can accurately alarm when human intrusion has been detected, avoiding false alarms and saving storage space for motion-triggered recordings.









## Multiple Info Over Coax

In addition to video and audio, multiple data types including alarm, temperature, humidity, etc., can be transmitted over a single coaxial cable.








## Active Deterrence Series

## TIOC

Model	HAC-ME1809TH-A-PV	HAC-ME1809TH-A-PV-POC	HAC-ME1509TH-PV	HAC-ME1509TH-A-PV	HAC-ME1509TH-A-PV-POC	HAC-ME1809H-A-PV
Appearance						
Image Sensor	1/2.8" 4K CMOS	1/2.8" 4K CMOS	1/2.7" 5MP CMOS	1/2.7" 5MP CMOS	1/2.7" 5MP CMOS	1/2.8" 4K CMOS
Min. Illumination	0.005 Lux/F1.6 (Color) 0Lux/F1.6 (LED On)	0.005 Lux/F1.6 (Color) 0Lux/F1.6 (LED On)	0.005Lux/F1.2 (Color) 0Lux/F1.2 (LED On)	0.005 Lux/F1.2 (Color) 0Lux/F1.2 (LED On)	0.005 Lux/F1.2 (Color) 0Lux/F1.2 (LED On)	0.005Lux/F1.6 (Color) 0Lux/F1.6 (LED On)
Lens	3.6 mm	3.6 mm	3.6mm (6mm Optional)	3.6 mm	3.6 mm	3.6mm (2.8mm Optional)
FOV-H	89°	89°	83°(53°)	83°	83°	89°(107°)
Day/Night	Color	Color	Color	Color	Color	Color
Max. IR Distance	LED: 40m (131ft), Smart Light	LED: 40m (131ft), Smart Light	LED: 40m (131ft), Smart Light	LED: 40m (131ft), Smart Light	LED: 40m (131ft), Smart Light	LED: 40m (131ft), Smart Light
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
WDR	DWDR	DWDR	DWDR	DWDR	DWDR	DWDR
Noise Reduction	2D	2D	2D	2D	2D	2D
Frame Rate	15/25/30fps@4K 25/30fps@4MP	15/25/30fps@4K 25/30fps@4MP	20fps@5MP 30fps@4MP 30fps@1080P	20fps@5MP 25/30fps@4MP 25/30fps@1080P	20fps@5MP 25/30fps@4MP 25/30fps@1080P	15/25/30fps@4K 25/30fps@4MP
Video Output	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable
Audio In	Built-in mic	Built-in mic	--	Built-in mic	Built-in mic	Built-in mic
IoT Features	Active Deterrence with Red Blue Light & Siren & Alarm out Interface	Active Deterrence with Red Blue Light & Siren & Alarm out Interface	Active Deterrence with Red Blue Light & Siren & Alarm out Interface	Active Deterrence with Red Blue Light & Siren & Alarm out Interface	Active Deterrence with Red Blue Light & Siren & Alarm out Interface	Active Deterrence with Red Blue Light & Siren & Alarm out Interface
Pan/Tilt/Rotation	Pan:0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan:0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan:0°~360°; Tilt: 0°~180° Rotation: 0°~360°	Pan:0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan:0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan:0°~360°; Tilt: 0°~78° Rotation: 0°~360°
Ingress Protection	IP67	IP67	IP67	IP67	IP67	IP67
Working Temperature	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)
Power	DC12V±30% Max. 7.7W	POC/DC12V±30% Max. 7.7W	DC12V±30% Max. 7.7W	DC12V±30% Max. 7.7W	POC/DC12V±30% Max. 7.7W	DC12V±30% Max. 7.7W








# HDCVI CAMERAS

## Active Deterrence Series

	TiOC				Active Deterrence 2.0		
Model	HAC-ME1809H-A-PV-POC	HAC-ME1509H-A-PV	HAC-ME1509H-A-PV-POC	HAC-ME1509TQ-PV	HAC-ME1800TH-PV	HAC-ME1800TQ-PV	HAC-ME1800B-LS
Appearance							
Image Sensor	1/2.8" 4K CMOS	1/2.7" 5MP CMOS	1/2.7" 5MP CMOS	1/2.7" 5MP CMOS	1/2.7" 8MP CMOS	1/2.7" 8MP CMOS	1/2.7" 8MP CMOS
Min. Illumination	0.005Lux/F1.6 (Color) 0Lux/F1.6 (LED On)	0.005 Lux/F1.2 (Color) 0Lux/F1.2 (LED On)	0.005 Lux/F1.2 (Color) 0Lux/F1.2 (LED On)	0.005Lux/F1.2 (Color) 0Lux/F1.2 (LED On)	0.02Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.02Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.02Lux/F2.0 (Color) 0Lux/F2.0 (IR On)
Lens	3.6mm (2.8mm Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm Optional)	3.6mm (6mm Optional)	3.6mm (2.8mm Optional)	2.8mm
FOV-H	89°(107°)	83°(98°)	83°(98°)	83°(98°)	87°(55°)	87°(105°)	105°
Day/Night	Color	Color	Color	Color	Color	Color	ICR
Max. IR Distance	LED: 40m (131ft), Smart Light	LED: 40m (131ft), Smart Light	LED: 40m (131ft), Smart Light	LED: 40m (131ft), Smart Light	80m (266ft), Smart IR	60m (197ft), Smart IR	20m (66ft), Smart IR
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
WDR	DWDR	DWDR	DWDR	DWDR	DWDR	DWDR	DWDR
Noise Reduction	2D	2D	2D	2D	2D	2D	2D
Frame Rate	15/25/30fps@4K 25/30fps@4MP	20fps@5MP 25/30fps@4MP 25/30fps@1080P	20fps@5MP 25/30fps@4MP 25/30fps@1080P	20fps@5MP 30fps@4MP 30fps@1080P	30fps@4K 20fps@5MP 30fps@4MP	30fps@4K 20fps@5MP 30fps@4MP	30fps@4K 20fps@5MP 30fps@4MP
Video Output	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable
Audio In	Built-in mic	Built-in mic	Built-in mic	--	--	--	--
IoT Features	Active Deterrence with Red Blue Light & Siren & Alarm out Interface	Active Deterrence with Red Blue Light & Siren & Alarm out Interface	Active Deterrence with Red Blue Light & Siren & Alarm out Interface	Active Deterrence with Red Blue Light & Siren & Alarm out Interface	Active Deterrence with Red Blue Light & Siren & Alarm out Interface	Active Deterrence with Red Blue Light & Siren & Alarm out Interface	Active Deterrence with White Light & Siren; Accurate Alarm Based on PIR & Motion Dual-detection; Coax Alarm Out
Pan/Tilt/Rotation	Pan:0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan:0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan:0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan:0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan:0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan:0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan:0°~360°; Tilt: 0°~90° Rotation: 0°~360°
Ingress Protection	IP67	IP67	IP67	IP67	IP67	IP67	IP67
Working Temperature	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)
Power	POC/DC12V±30% Max. 7.7W	DC12V±30% Max. 7.7W	POC/DC12V±30% Max. 7.7W	DC12V±30% Max. 7.7W	DC12V±30% Max. 8.5W	DC12V±30% Max. 8.5W	DC12V±30% Max. 8.5W

## Active Deterrence Series

## Active Deterrence 2.0








Model	HAC-ME1509B-LS	HAC-ME1800EQ-LS	HAC-ME1509EQ-LS	HAC-ME1800B-L	HAC-ME1800EQ-L	HAC-ME1500C	HAC-ME2241C
Appearance							
Image Sensor	1/2.7" 5MP CMOS	1/2.7" 8MP CMOS	1/2.7" 5MP CMOS	1/2.7" 8MP CMOS	1/2.7" 8MP CMOS	1/2.7" 5MP CMOS	1/2.8" 2MP STARVIS™ CMOS
Min. Illumination	0.005Lux/F1.2 (Color) 0Lux/F1.2 (LED On)	0.02Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.005Lux/F1.2 (Color) 0Lux/F1.2 (LED On)	0.02Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.02Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.02Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.004Lux/F1.6 (Color) 0Lux/F1.6 (IR On)
Lens	3.6mm (2.8mm Optional)	2.8mm	3.6mm (2.8mm Optional)	2.8mm	2.8mm	3.6mm (2.8mm Optional)	3.6mm (2.8mm Optional)
FOV-H	83°(98°)	105°	83°(98°)	105°	105°	77.5°(92°)	86.9°(110°)
Day/Night	Color	ICR	Color	ICR	ICR	ICR	ICR
Max. IR Distance	LED: 40m (131ft), Smart Light	20m (66ft), Smart IR	LED: 40m (131ft), Smart Light	20m (66ft), Smart IR	20m (66ft), Smart IR	20m (66ft), Smart IR	20m (66ft), Smart IR
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
WDR	DWDR	DWDR	DWDR	DWDR	DWDR	DWDR	120dB
Noise Reduction	2D	2D	2D	2D	2D	2D	2D/3D
Frame Rate	20fps@5MP 30fps@4MP 30fps@1080P	30fps@4K 20fps@5MP 30fps@4MP	20fps@5MP 30fps@4MP 30fps@1080P	30fps@4K 20fps@5MP 30fps@4MP	30fps@4K 20fps@5MP 30fps@4MP	20fps@5MP 30fps@4MP 30fps@1080P	30fps@1080P 30fps@720P
Video Output	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable
Audio In	--	--	--	--	--	--	1ch in & Built-in Mic
IoT Features	Active Deterrence with White Light & Siren; Accurate Alarm Based on PIR & Motion Dual-detection; Coax Alarm Out	Active Deterrence with White Light & Siren; Accurate Alarm Based on PIR & Motion Dual-detection; Coax Alarm Out	Active Deterrence with White Light & Siren; Accurate Alarm Based on PIR & Motion Dual-detection; Coax Alarm Out	Active Deterrence with White Light ; Accurate Alarm Based on PIR & Motion Dual-detection; Coax Alarm Out	Active Deterrence with White Light ; Accurate Alarm Based on PIR & Motion Dual-detection; Coax Alarm Out	Active Deterrence with White Light & Siren; Accurate Alarm Based on PIR & Motion Dual-detection; Coax Alarm Out	Active Deterrence with White Light & Siren; Accurate Alarm Based on PIR & Motion Dual-detection; Coax Alarm Out
Pan/Tilt/Rotation	Pan:0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan:0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan:0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan:0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan:0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan:0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan:0°~360°; Tilt: 0°~90° Rotation: 0°~360°
Ingress Protection	IP67	IP67	IP67	IP67	IP67	IP67	IP67
Working Temperature	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-20°C~+60°C (-4°F~+140°F)	-20°C~+60°C (-4°F~+140°F)
Power	DC12V±30% Max. 7.0W	DC12V±30% Max. 8.5W	DC12V±30% Max. 7.0W	DC12V±30% Max. 7.2W	DC12V±30% Max. 7.2W	DC12V±30% Max. 4.2W	DC12V±30% Max. 5.5W



# HDCVI CAMERAS







## Active Deterrence Series

### Active Deterrence 2.0

Model	HAC-ME2241C-W	HAC-ME1500D	HAC-ME1200D	HAC-ME1500B-LED	HAC-ME1200B-LED	HAC-ME1500E-LED	HAC-ME1200E-LED
Appearance							
Image Sensor	1/2.8" 2MP STARVIS™ CMOS	1/2.7" 5MP CMOS	1/2.7" 2MP CMOS	1/2.7" 5MP CMOS	1/2.7" 2MP CMOS	1/2.7" 5MP CMOS	1/2.7" 2MP CMOS
Min. Illumination	0.004Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.02Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.02Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.02Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.02Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.02Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.02Lux/F2.0 (Color) 0Lux/F2.0 (IR On)
Lens	3.6mm (2.8mm Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm Optional)
FOV-H	86.9°(110°)	77.5°(99°)	88°(112°)	77.5°(99°)	88°(112°)	77.5°(99°)	88°(112°)
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR	ICR
Max. IR Distance	20m (66ft), Smart IR	20m (66ft), Smart IR	20m (66ft), Smart IR	20m (66ft), Smart IR	20m (66ft), Smart IR	20m (66ft), Smart IR	20m (66ft), Smart IR
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
WDR	120dB	DWDR	DWDR	DWDR	DWDR	DWDR	DWDR
Noise Reduction	2D/3D	2D	2D	2D	2D	2D	2D
Frame Rate	30fps@1080P 30fps@720P	20fps@5MP 30fps@4MP 30fps@1080P	30fps@1080P 30fps@720P	20fps@5MP 30fps@4MP 30fps@1080P	30fps@1080P 30fps@720P	20fps@5MP 30fps@4MP 30fps@1080P	30fps@1080P 30fps@720P
Video Output	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable
Audio In	1ch in & Built-in Mic	--	Built-in Mic	--	--	--	--
IoT Features	Active Deterrence with White Light & Siren; Accurate Alarm Based on PIR & Motion Dual-detection; Built-in Airfly Tranceiver; Coax Alarm Out	Active Deterrence with White Light & Siren; Accurate Alarm Based on PIR & Motion Dual-detection; Coax Alarm Out	Active Deterrence with White Light & Siren; Accurate Alarm Based on PIR & Motion Dual-detection; Coax Alarm Out	Active Deterrence with White Light; Accurate Alarm Based on PIR & Motion Dual-detection; Coax Alarm Out	Active Deterrence with White Light; Accurate Alarm Based on PIR & Motion Dual-detection; Coax Alarm Out	Active Deterrence with White Light; Accurate Alarm Based on PIR & Motion Dual-detection; Coax Alarm Out	Active Deterrence with White Light; Accurate Alarm Based on PIR & Motion Dual-detection; Coax Alarm Out
Pan/Tilt/Rotation	Pan:0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan:0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan:0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan:0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan:0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan:0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan:0°~360°; Tilt: 0°~78° Rotation: 0°~360°
Ingress Protection	IP67	IP67	IP67	IP67	IP67	IP67	IP67
Working Temperature	-20°C~+60°C (-4°F~+140°F)	-20°C~+60°C (-4°F~+140°F)	-20°C~+60°C (-4°F~+140°F)	-10°C~+50°C (14°F~+122°F)	-10°C~+50°C (14°F~+122°F)	-10°C~+50°C (14°F~+122°F)	-10°C~+50°C (14°F~+122°F)
Power	DC12V±30% Max. 5.5W	DC12V±30% Max. 3.9W	DC12V±30% Max. 4.9W	DC12V±30% Max. 2.5W	DC12V±30% Max. 2.5W	DC12V±30% Max. 2.5W	DC12V±30% Max. 2.5W

## Active Deterrence Series

## PIR

Model	HAC-ME2802B	HAC-ME1500B	HAC-ME1200B	HAC-ME1500E	HAC-ME1200E	HAC-ME1200A
Appearance						
Image Sensor	1/1.8" 8MP CMOS	1/2.7" 5MP CMOS	1/2.7" 2MP CMOS	1/2.7" 5MP CMOS	1/2.7" 2MP CMOS	1/2.7" 2MP CMOS
Min. Illumination	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.02Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.02Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.02Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.02Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.02Lux/F2.4 (Color) 0.002Lux/F2.4 (B/W)
Lens	2.8mm	3.6mm (2.8mm Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm Optional)
FOV-H	110.8°	77.5°(99°)	88°(112°)	77.5°(99°)	88°(112°)	96°(107°)
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR
Max. IR Distance	20m (66ft), Smart IR	20m (66ft), Smart IR	20m (66ft), Smart IR	20m (66ft), Smart IR	20m (66ft), Smart IR	--
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
WDR	DWDR	DWDR	DWDR	DWDR	DWDR	DWDR
Noise Reduction	2D	2D	2D	2D	2D	2D
Frame Rate	15fps@4K 20fps@5MP 30fps@4MP	20fps@5MP 30fps@4MP 30fps@1080P	30fps@1080P 30fps@720P	20fps@5MP 30fps@4MP 30fps@1080P	30fps@1080P 30fps@720P	30fps@1080P 30fps@720P
Video Output	HD/SD Switchable (Video only)	HD/SD Switchable (Video only)	HD/SD Switchable (Video only)	HD/SD Switchable (Video only)	HD/SD Switchable (Video only)	HD/SD Switchable (Video only)
Audio In	--	--	--	--	--	--
IoT Features	Accurate Alarm Based on PIR & Motion Dual-detection Coax Alarm Out	Accurate Alarm Based on PIR & Motion Dual-detection Coax Alarm Out	Accurate Alarm Based on PIR & Motion Dual-detection Coax Alarm Out	Accurate Alarm Based on PIR & Motion Dual-detection Coax Alarm Out	Accurate Alarm Based on PIR & Motion Dual-detection Coax Alarm Out	Accurate Alarm Based on PIR & Motion Dual-detection Coax Alarm Out
Pan/Tilt/Rotation	Pan:0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan:0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan:0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan:0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan:0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan:0°~180°; Tilt: 0°~90° Rotation: 0°~360°
Ingress Protection	IP67	IP67	IP67	IP67	IP67	--
Working Temperature	-10°C~+50°C (14°F~+122°F)	-10°C~+50°C (14°F~+122°F)	-10°C~+50°C (14°F~+122°F)	-10°C~+50°C (14°F~+122°F)	-10°C~+50°C (14°F~+122°F)	-10°C~+50°C (14°F~+122°F)
Power	DC12V±30% Max. 5.3W	DC12V±30% Max. 5.3W	DC12V±30% Max. 3.9W	DC12V±30% Max. 4.5W	DC12V±30% Max. 3.9W	DC12V±30% Max. 0.8W

# Panorama Series

Panorama Series offers a wide range of intelligent cameras including fisheye, multi-sensor and dual-lens that cater different scenarios. A single panoramic camera can cover an extremely wide field of view, which makes it suitable for large-scale monitoring applications and greatly simplifies system installation and maintenance.



## Multi-sensor Camera

Provides a 180 degree panoramic view which consists of three 1080P single views. The camera has 4 BNCs and outputs one panoramic view and three individual images.



## Fisheye Camera

Adopts fisheye lens to provide a 360 degree round view, covering a whole large area. It also offers options for models with 4K/5MP high resolution.



## Dual-lens Camera





Monitors two directions with separate cameras, saving installation work. This camera is suitable for monitoring scenes such as corridors, corners and stairs.



## Simplicity

Panoramic camera can replace multiple cameras, making installation, adjustment and maintenance easier, and saving product and labor costs for customers.

## Panorama Series

	Multi-sensor	Fisheye		Dual-lens
Model	HAC-PFW3601-A180(-AC24)	HAC-EBW3802	HAC-EW2501	HAC-HDW2241M-E2
Appearance	 <span>Starlight</span>	 <span>Starlight</span>	 <span>Starlight</span>	 <span>Starlight</span>
Image Sensor	3x1/2.8" 2MP STARVIS™ CMOS	1/2" 8MP CMOS	1/2.8" 5MP STARVIS™ CMOS	2x1/2.8" 2MP STARVIS™ CMOS
Min. Illumination	0.005Lux/F1.8 (Color) 0Lux/F1.8 (IR On)	0.005Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.005Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.004Lux/F1.6 (Color) 0Lux/F1.6 (IR On)
Lens	3x3.6mm	2.5mm	1.4mm	2x3.6mm (2.8mm, 6mm Optional)
FOV-H	Panoramic View: 180° Single View: 3x87°	180°	180°	Single View: 2x86.9°(110°/52.8°)
Day/Night	ICR	ICR	ICR	ICR
Max. IR Distance	20m (66ft), Smart IR	15m (49ft), Smart IR	10m (33ft), Smart IR	30m (98ft), Smart IR
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language
WDR	120dB	120dB	120dB	120dB
Noise Reduction	2D/3D	2D/3D	2D/3D	2D/3D
Frame Rate	Panoramic View: 15fps@4K, 25fps@4MP Single View: 25fps@1080P	15fps@4K 30fps@4MP	20fps@5MP 30fps@4MP 30fps@1080P	Single View: 30fps@1080P 30/60fps@720P
Video Output	HD (1xPanoramic View & 3xSingle View Output) SD Tester-out (Panoramic View)	HD/SD Dual-output	HD/SD Switchable	HD/SD Switchable
Audio In	1	1ch in & Built-in Mic	Built-in Mic	1
Alarm In/Out	2/1	2/1	--	--
Pan/Tilt/Rotation	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	--	--	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°
Ingress Protection	IP67, IK10	IP67, IK10	--	IP67
Working Temperature	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-40°C~+60°C (-40°F~+140°F)
Power	DC12V±25%, Max. 22W (AC24V±25% Optional, Max. 22W)	DC12V±25% Max. 7.4W	DC12V±25% Max. 7.3W	1xDC12V±30% Max. 9.2W



## PoC Series

Power-over-Coax (PoC) transmits both video and electrical power over a single coaxial cable, eliminating separate power supplies for the camera. It further simplifies system deployment with real plug & play, benefiting users with reduced material and installation costs.



### Power-over-coax

PoC technology transmits power over the same coaxial cable with video, audio and data.



### Long Distance

Dahua PoC transmission distance can reach up to 200 meters for AF cameras and 100 meters for AT cameras.



### Cost Saving

HDCVI PoC technology simplifies HDCVI system deployment and enhances power system stability, reducing installation and maintenance costs.



### Safe Operation

In case of connection with non-PoC devices or short-circuits in the cable, the PoC system automatically identifies the risk and cuts off power at once, avoiding damage and injuries.

## PoC Series






## Vari-focal Bullet

## Vari-focal Dome

Model	HAC-HFW2501TU-Z-A-POC	HAC-HFW2241T-Z-POC	HAC-HFW1500R-Z-IRE6-A-POC	HAC-HFW1230R-Z-IRE6-POC	HAC-HDBW2501R-Z-POC
Appearance	 Starlight	 Starlight	 Starlight	 Starlight	 Starlight
Image Sensor	1/2.7" 5MP(16:9) CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.7" 5MP(16:9) CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.7" 5MP(16:9) CMOS
Min. Illumination	0.001Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.004Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.005Lux/F1.8 (Color) 0Lux/F1.8 (IR On)	0.001Lux/F1.6 (Color) 0Lux/F1.6 (IR On)
Lens	2.7~13.5mm, Motorized	2.7~13.5mm, Motorized	2.7-12mm, Motorized	2.7-12mm, Motorized	2.7~13.5mm, Motorized
FOV-H	113°~31.4°	108.7°~28.7°	107°~34°	101.7°~32.3°	113°~31.4°
Day/Night	ICR	ICR	ICR	ICR	ICR
Max. IR Distance	80m (262ft), Smart IR	80m (262ft), Smart IR	60m (197ft), Smart IR	60m (197ft), Smart IR	30m (98ft), Smart IR
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
WDR	120dB	120dB	DWDR	DWDR	120dB
Noise Reduction	2D/3D	2D/3D	2D	2D	2D/3D
Frame Rate	25fps@5MP(16:9) 30fps@4MP	30fps@1080P 30fps@720P	25fps@5MP(16:9) 30fps@4MP 30fps@1080P	30fps@1080P 30fps@720P	25fps@5MP(16:9) 30fps@4MP
Video Output	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable
Audio In	Built-in Mic	--	Built-in Mic	--	--
Alarm In/Out	--	--	--	--	--
Pan/Tilt/Rotation	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~87° Rotation: 0°~360°	Pan: 0°~355°; Tilt: 0°~75° Rotation: 0°~355°
Ingress Protection	IP67	IP67	IP67	IP67	IP67, IK10
Working Temperature	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)
Power	POC/DC12V±30% Max. 8.2W	POC/DC12V±30% Max. 8.2W Output: DC12V, Max. 2W	POC/DC12V±30% Max. 9.8W	POC/DC12V±30% Max. 12.1W	POC/DC12V±30% Max. 6.6W

# HDCVI CAMERAS






## PoC Series

Model	Vari-focal Dome			Vari-focal Eyeball	
	HAC-HDBW1500R-Z-POC	HAC-HDBW2241R-Z-POC	HAC-HDBW1230R-Z-POC	HAC-HDW2501TMQ-Z-A-POC	HAC-HDW1500TMQ-Z-A-POC
Appearance	 Starlight	 Starlight	 Starlight	 Starlight	 Starlight
Image Sensor	1/2.7" 5MP(16:9) CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.7" 5MP(16:9) CMOS	1/2.7" 5MP(16:9) CMOS
Min. Illumination	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.004Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.005Lux/F1.8 (Color) 0Lux/F1.8 (IR On)	0.001Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR On)
Lens	2.7-12mm, Motorized	2.7~13.5mm, Motorized	2.7-12mm, Motorized	2.7~13.5mm, Motorized	2.7-12mm, Motorized
FOV-H	107°~34°	108.7°~28.7°	101.7°~32.3°	113°~31.4°	107°~34°
Day/Night	ICR	ICR	ICR	ICR	ICR
Max. IR Distance	30m (98ft), Smart IR	30m (98ft), Smart IR	30m (98ft), Smart IR	60m (197ft), Smart IR	60m (197ft), Smart IR
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
WDR	DWDR	120dB	DWDR	120dB	DWDR
Noise Reduction	2D	2D/3D	2D	2D/3D	2D
Frame Rate	25fps@5MP(16:9) 30fps@4MP 30fps@1080P	30fps@1080P 30fps@720P	30fps@1080P 30fps@720P	25fps@5MP(16:9) 30fps@4MP	25fps@5MP(16:9) 30fps@4MP 30fps@1080P
Video Output	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable
Audio In	--	--	--	Built-in Mic	Built-in Mic
Alarm In/Out	--	--	--	--	--
Pan/Tilt/Rotation	Pan: 0°~355°; Tilt: 0°~75° Rotation: 0°~355°	Pan: 0°~355°; Tilt: 0°~75° Rotation: 0°~355°	Pan: 0°~355°; Tilt: 0°~75° Rotation: 0°~355°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°
Ingress Protection	IP67, IK10	IP67, IK10	IP67, IK10	IP67	IP67
Working Temperature	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)
Power	POC/DC12V±30% Max. 5.5W	POC/DC12V±30%, Max. 4.7W Output: DC12V, Max. 2W	POC/DC12V±30% Max. 6.7W	POC/DC12V±30% Max. 8W	POC/DC12V±30% Max. 6.6W

## PoC Series

## Vari-focal Eyeball

## Fixed-focal Bullet






Model	HAC-HDW2501T-Z-A-POC	HAC-HDW1500T-Z-A-POC	HAC-HDW2241T-Z-POC	HAC-HDW1230T-Z-A-POC	HAC-HFW2501TU-A-POC
Appearance	 Starlight	 Starlight	 Starlight	 Starlight	 Starlight
Image Sensor	1/2.7" 5MP(16:9) CMOS	1/2.7" 5MP(16:9) CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.7" 5MP(16:9) CMOS
Min. Illumination	0.001Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.004Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.005Lux/F1.8 (Color) 0Lux/F1.8 (IR On)	0.001Lux/F1.6 (Color) 0Lux/F1.6 (IR On)
Lens	2.7~13.5mm, Motorized	2.7-12mm, Motorized	2.7~13.5mm, Motorized	2.7-12mm, Motorized	3.6mm (6mm, 8mm Optional)
FOV-H	113°~31.4°	107°~34°	108.7°~28.7°	101.7°~32.3°	92°(57°/43°)
Day/Night	ICR	ICR	ICR	ICR	ICR
Max. IR Distance	60m (197ft), Smart IR	60m (197ft), Smart IR	60m (197ft), Smart IR	60m (197ft), Smart IR	80m (262ft), Smart IR
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
WDR	120dB	DWDR	120dB	DWDR	120dB
Noise Reduction	2D/3D	2D	2D/3D	2D	2D/3D
Frame Rate	25fps@5MP(16:9) 30fps@4MP	25fps@5MP(16:9) 30fps@4MP 30fps@1080P	30fps@1080P 30fps@720P	30fps@1080P 30fps@720P	25fps@5MP(16:9) 30fps@4MP
Video Output	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable
Audio In	Built-in Mic	Built-in Mic	--	Built-in Mic	Built-in Mic
Alarm In/Out	--	--	--	--	--
Pan/Tilt/Rotation	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°
Ingress Protection	IP67	IP67	IP67	IP67	IP67
Working Temperature	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-40°C~+60°C (-40°F~+140°F)
Power	POC/DC12V±30% Max. 8W	POC/DC12V±30% Max. 6.6W	POC/DC12V±30% Max. 5.4W Output: DC12V, Max. 2W	POC/DC12V±30% Max. 8.2W	POC/DC12V±30% Max. 6.8W





# HDCVI CAMERAS

PoC Series

## Fixed-focal Bullet

Model	HAC-HFW1500TH-I8-A-POC	HAC-HFW1509T-A-LED-POC	HAC-HFW1230T(-A)-POC	HAC-HFW1200T(-A)-POC	HAC-HFW1230S-POC
Appearance	 Starlight	 Full-color	 Starlight	 Starlight	 Starlight
Image Sensor	1/2.7" 5MP(16:9) CMOS	1/2.7" 5MP(16:9) CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.7" 2MP CMOS	1/2.8" 2MP STARVIS™ CMOS
Min. Illumination	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.001Lux/F1.0 (Color) 0Lux/F1.0 (IR On)	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.02Lux/F1.85 (Color) 0Lux/F1.85 (IR On)	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR On)
Lens	3.6mm (6mm, 8mm Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm Optional)
FOV-H	92°(57°/43°)	88°(112°)	86.9°(106°)	87.5°(103°)	86.9°(106°)
Day/Night	ICR	ICR	ICR	ICR	ICR
Max. IR Distance	80m (262ft), Smart IR	20 m (65.61 ft), Smart IR	30m (98ft), Smart IR	30m (98ft), Smart IR	30m (98ft), Smart IR
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
WDR	DWDR	120dB	DWDR	DWDR	DWDR
Noise Reduction	2D	3D	2D	2D	2D
Frame Rate	25fps@5MP(16:9) 30fps@4MP 30fps@1080P	25fps@5MP(16:9) 25fps@4MP 25fps@1080P	30fps@1080P 30fps@720P	30fps@1080P 30fps@720P	30fps@1080P 30fps@720P
Video Output	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable
Audio In	Built-in Mic	Built-in Mic	Built-in Mic(-A)	Built-in Mic(-A)	--
Alarm In/Out	--	--	--	--	--
Pan/Tilt/Rotation	Pan: 0°~360°; Tilt: 0°~180° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°
Ingress Protection	IP67	IP67	IP67	IP67	IP67
Working Temperature	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)
Power	POC/DC12V±30% Max. 5.2W	POC/DC12V±30% Max. 4.4W	POC/DC12V±30% Max. 3.7W	POC/DC12V±30% Max. 3.6W	POC/DC12V±30% Max. 4.5W







## PoC Series

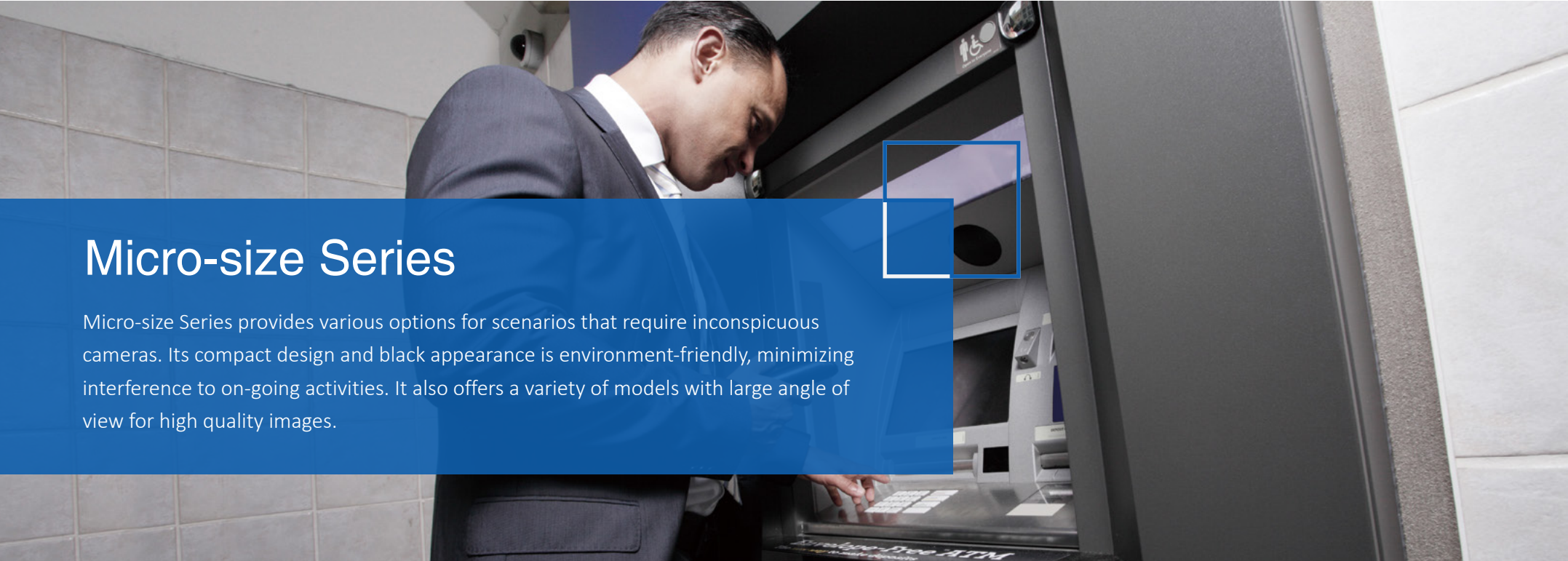
	Fixed-focal Bullet			Fixed-focal Eyeball		
Model	HAC-HFW1200S-POC	HAC-HFW2501CM-A-POC	HAC-HFW1500CM-A-POC	HAC-HDW2501TMQ-A-POC	HAC-HDW1500TMQ-A-POC	HAC-HDW1230EM-A-POC
Appearance		 Starlight	 Starlight	 Starlight	 Starlight	 Starlight
Image Sensor	1/2.7" 2MP CMOS	1/2.7" 5MP(16:9) CMOS	1/2.7" 5MP(16:9) CMOS	1/2.7" 5MP(16:9) CMOS	1/2.7" 5MP(16:9) CMOS	1/2.8" 2MP STARVIS™ CMOS
Min. Illumination	0.02Lux/F1.85 (Color) 0Lux/F1.85 (IR On)	0.001Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.001Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR On)
Lens	3.6mm (2.8mm Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm, 6mm Optional)	3.6mm (2.8mm, 6mm Optional)	3.6mm (2.8mm Optional)
FOV-H	87.5°(103°)	92°(111°)	92°(111°)	92°(111°/57°)	92°(111°/57°)	86.9°(106°)
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR
Max. IR Distance	30m (98ft), Smart IR	30m (98ft), Smart IR	30m (98ft), Smart IR	60m (197ft), Smart IR	60m (197ft), Smart IR	50m (164ft), Smart IR
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
WDR	DWDR	120dB	DWDR	120dB	DWDR	DWDR
Noise Reduction	2D	2D/3D	2D	2D/3D	2D	2D
Frame Rate	30fps@1080P 30fps@720P	25fps@5MP(16:9) 30fps@4MP	25fps@5MP(16:9) 30fps@4MP 30fps@1080P	25fps@5MP(16:9) 30fps@4MP	25fps@5MP(16:9) 30fps@4MP 30fps@1080P	30fps@1080P 30fps@720P
Video Output	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable
Audio In	--	Built-in Mic	Built-in Mic	Built-in Mic	Built-in Mic	Built-in Mic
Alarm In/Out	--	--	--	--	--	--
Pan/Tilt/Rotation	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°
Ingress Protection	IP67	IP67	IP67	IP67	IP67	IP67
Working Temperature	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)
Power	POC/DC12V±30% Max. 4.3W	POC/DC12V±30% Max. 4.7W	POC/DC12V±30% Max. 3.7W	POC/DC12V±30% Max. 5.9W	POC/DC12V±30% Max. 5.2W	POC/DC12V±30% Max. 4.2W

# HDCVI CAMERAS

PoC Series

## Fixed-focal Eyeball

Model	HAC-HDW1200EM(-A)-POC	HAC-HDW2501TQ-A-POC	HAC-HDW1500TQ-A-POC	HAC-HDW1509T-A-LED-POC	HAC-HDW2501TLMQ-A-POC	HAC-HDW1500TLMQ-A-POC
Appearance	 Starlight	 Starlight	 Starlight	 Full Color	 Starlight	 Starlight
Image Sensor	1/2.7" 2MP CMOS	1/2.7" 5MP(16:9) CMOS	1/2.7" 5MP(16:9) CMOS	1/2.7" 5MP(16:9) CMOS	1/2.7" 5MP(16:9) CMOS	1/2.7" 5MP(16:9) CMOS
Min. Illumination	0.02Lux/F1.85 (Color) 0Lux/F1.85 (IR On)	0.001Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.001Lux/F1.0 (Color) 0Lux/F1.0 (IR On)	0.001Lux/F1.6 (Color) 0Lux/F1.6 (IR On)	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR On)
Lens	3.6mm (2.8mm Optional)	3.6mm (2.8mm, 6mm Optional)	3.6mm (2.8mm, 6mm Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm Optional)
FOV-H	87.5°(103°)	92°(111°/57°)	92°(111°/57°)	88°(112°)	92°(111°)	92°(111°)
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR
Max. IR Distance	50m (164ft), Smart IR	40m (131ft), Smart IR	40m (131ft), Smart IR	40m (131.23 ft), Smart IR	30m (197ft), Smart IR	30m (98ft), Smart IR
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
WDR	DWDR	120dB	DWDR	120dB	120dB	DWDR
Noise Reduction	2D	2D/3D	2D	2D/3D	2D/3D	2D
Frame Rate	30fps@1080P 30fps@720P	25fps@5MP(16:9) 30fps@4MP	25fps@5MP(16:9) 30fps@4MP 30fps@1080P	"25fps@5MP(16:9) 25fps@4MP 25fps@1080P"	25fps@5MP(16:9) 30fps@4MP	25fps@5MP(16:9) 30fps@4MP 30fps@1080P
Video Output	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable
Audio In	Built-in Mic(-A)	Built-in Mic	Built-in Mic	Built-in Mic	Built-in Mic	Built-in Mic
Alarm In/Out	--	--	--	--	--	--
Pan/Tilt/Rotation	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	"Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°"	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°"	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°
Ingress Protection	IP67	IP67	IP67	IP67	IP67	IP67
Working Temperature	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)
Power	POC/DC12V±30% Max. 4.2W	POC/DC12V±30% Max. 4.3W	POC/DC12V±30% Max. 3.5W	"POC/DC12V±30% Max. 6.4W"	POC/DC12V±30% Max. 4.3W	POC/DC12V±30% Max. 3.2W



# Micro-size Series

Micro-size Series provides various options for scenarios that require inconspicuous cameras. Its compact design and black appearance is environment-friendly, minimizing interference to on-going activities. It also offers a variety of models with large angle of view for high quality images.



### Micro Size Design

Its impressive micro-sized housing has minimum impact to the environment, offering effective concealment to avoid discomfort to people.











### Large Angle of View

It adopts lens with larger field of view to monitor wider range and collect more information and details with one camera.

# HDCVI CAMERAS

## Micro-size Series

	Pinhole		Micro-size					
Model	HAC-HUM3201B-P	HAC-HUM3201B-B	HAC-HUM3200G	HAC-HUM3200G-B	HAC-HUM3200G-B-P	HAC-HDW3200G	HAC-HDW3200L	HAC-HDBW3200F
Appearance	 Starlight	 Starlight						
Image Sensor	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.7" 2MP CMOS	1/2.7" 2MP CMOS	1/2.7" 2MP CMOS	1/2.7" 2MP CMOS	1/2.7" 2MP CMOS	1/2.7" 2MP CMOS
Min. Illumination	0.004Lux/F2.4 (Color) 0.0004Lux/F2.4 (B/W)	0.004Lux/F2.4 (Color) 0.0004Lux/F2.4 (B/W)	0.02Lux/F2.0 (Color) 0.002Lux/F2.0 (B/W)	0.02Lux/F2.0 (Color) 0.002Lux/F2.0 (B/W)	0.02Lux/F2.4 (Color) 0.002Lux/F2.4 (B/W)	0.02Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.02Lux/F2.0(Color) 0Lux/F2.0 (IR On)	0.02Lux/F2.0(Color) 0Lux/F2.0 (IR On)
Lens	2.8mm	2.8mm	2.8mm	2.8mm	2.8mm	3.6mm (2.8mm Optional)	2.1mm	2.8mm
FOV-H	103°	110°	117°	117°	107°	84°(101°)	132°	106°
Day/Night	ICR	ICR	Electronic	Electronic	Electronic	ICR	ICR	ICR
Max. IR Distance	--	--	--	--	--	20m (66ft), Smart IR	3m (10ft), Smart IR	20m (66ft), Smart IR
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
WDR	120dB	120dB	DWDR	DWDR	DWDR	DWDR	DWDR	DWDR
Noise Reduction	2D/3D	2D/3D	2D	2D	2D	2D	2D	2D
Frame Rate	30fps@1080P 30fps@720P	30fps@1080P 30fps@720P	30fps@1080P 30/60fps@720P	30fps@1080P 30/60fps@720P	30fps@1080P 30/60fps@720P	30fps@1080P 30/60fps@720P	30fps@1080P 30/60fps@720P	30fps@1080P 30/60fps@720P
Video Output	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable
Audio In	--	--	--	--	--	Built-in Mic	Built-in Mic	Built-in Mic
Alarm In/Out	--	--	--	--	--	--	--	--
Pan/Tilt/Rotation	Pan: 0°~360°; Tilt: 0°~180° Rotation: NA	Pan: 0°~360°; Tilt: 0°~180° Rotation: NA	Pan:NA; Tilt: NA Rotation: 0°~360°	Pan:0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan:0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~40°; Tilt: 0°~55° Rotation: 0°~360°	Pan:-30°~30°; Tilt: 0°~80° Rotation: 0°~360°
Ingress Protection	--	--	IP67	IP67	--	IP67	--	IP67;IK10
Working Temperature	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)
Power	DC12V±25% Max. 2.2W	DC12V±25% Max. 2.2W	DC12V±30% Max. 1.1W	DC12V±30% Max. 1.1W	DC12V±30% Max. 1.1W	DC12V±30% Max. 2.3W	DC12V±30% Max. 1.9W	DC12V±30% Max. 2.6W

# HDCVI PTZ CAMERAS





# Pro Series

The Pro Series PTZ is designed to meet high image quality and low-light surveillance requirements with the help of Starlight technology. Various housings and model selections are available to meet the diverse application needs of customers.



## Powerful Zoom

It can cover large areas with up to 32x optical zoom capability.



## Long IR Range

It offers up to 150m IR range that is suitable for low light environments.



## Optimized Image

High quality images with Starlight technology.



## Multi-scene Monitoring

Multiple settings that can be preset to expand the camera's coverage.

# HDCVI PTZ CAMERAS

## Pro Series

	32x optical zoom			25x optical zoom		
Model	SD59232-HC-LA	SD50232-HC-LA	SD52C232-HC-LA	SD59225-HC-LA	SD50225-HC-LA	SD52C225-HC-LA
Appearance						
Image Sensor	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS
Min. Illumination	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR on)	0.005Lux/F1.6 (Color) 0.0005Lux/F1.6 (B/W)	0.005Lux/F1.6 (Color) 0.0005Lux/F1.6 (B/W)	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR on)	0.005Lux/F1.6 (Color) 0.0005Lux/F1.6 (B/W)	0.005Lux/F1.6 (Color) 0.0005Lux/F1.6 (B/W)
Lens	4.5~144mm (32x Optical zoom)	4.5~144mm (32x Optical zoom)	4.5~144mm (32x Optical zoom)	4.8~120mm (25x Optical zoom)	4.8~120mm (25x Optical zoom)	4.8~120mm (25x Optical zoom)
FOV-H	60.14°~2.75°	60.14°~2.75°	60.14°~2.75°	58.5°~2.8°	58.5°~2.8°	58.5°~2.8°
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR
Max. IR Distance	150m(492ft)	--	--	150m(492ft)	--	--
OSD Menu	Supported	Supported	Supported	Supported	Supported	Supported
WDR	120dB True WDR	120dB True WDR	120dB True WDR	120dB True WDR	120dB True WDR	120dB True WDR
Noise Reduction	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D
Frame Rate	30fps@1080P 30/60fps@720P	30fps@1080P 30/60fps@720P	30fps@1080P 30/60fps@720P	30fps@1080P 30/60fps@720P	30fps@1080P 30/60fps@720P	30fps@1080P 30/60fps@720P
Video Output	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable
Pan/Tilt	Pan: 0° ~ 360° endless Tilt: -15° ~ 90°	Pan: 0° ~ 360° endless Tilt: 0° ~ 90°	Pan: 0° ~ 360° endless Tilt: 0° ~ 90°	Pan: 0° ~ 360° endless Tilt: -15° ~ 90°	Pan: 0° ~ 360° endless Tilt: 0° ~ 90°	Pan: 0° ~ 360° endless Tilt: 0° ~ 90°
Preset Speed	Pan: 400°/s Tilt: 300°/s	Pan: 500°/s Tilt: 500°/s	Pan: 500°/s Tilt: 500°/s	Pan: 400°/s Tilt: 300°/s	Pan: 500°/s Tilt: 500°/s	Pan: 500°/s Tilt: 500°/s
Audio In	1	1	1	1	1	1
Alarm In/Out	2/1	2/1	2/1	2/1	2/1	2/1
Ingress Protection	IP66	IP67, IK10	IK10	IP66	IP67, IK10	IK10
Working Temperature	-40°C~+70°C (-40°F~+158°F)	-40°C~+60°C (-40°F~+140°F)	-30°C ~ +60°C (-22°F~+140°F)	-40°C~+70°C (-40°F~+158°F)	-40°C~+60°C (-40°F~+140°F)	-30°C ~ +60°C (-22°F~+140°F)
Power	DC24V Max. 22W	DC24V Max. 18.5W	DC24V Max. 12.5W	DC24V Max. 22W	DC24V Max. 18.5W	DC24V Max. 12.5W

HDCVI PTZ CAMERAS





## Lite Series

The Lite Series PTZ offers a cost-effective and high-performance solution that is suitable for a wide range of applications. Its compact design based on Dahua quality standards and assurance enables the products in the entire series to meet customer's requirements.



### Mini IR PTZ

Pan, tilt, zoom and IR functions in one compact housing.



### Compact Design

Its small compact design can fit in a number of places.



### Multi-scene Monitoring

Offers multiple settings that can be preset to expand the camera's coverage.








### Powerful Zoom

It can cover large areas with up to 25x optical zoom capability.

# HDCVI PTZ CAMERAS

## Lite Series

	25x optical zoom		15x optical zoom		4x optical zoom
Model	SD49225-HC-LA	SD40215-HC-LA	SD42215-HC-LA	SD42C215-HC-LA	SD22204-GC-LB
Appearance					
Image Sensor	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" STARVIS™ CMOS
Min. Illumination	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR on)	0.005Lux/F1.6 (Color) 0.0005Lux/F1.6 (B/W)	0.005Lux/F1.6 (Color) 0.0005Lux/F1.6 (B/W)	0.005Lux/F1.6 (Color) 0.0005Lux/F1.6 (B/W)	0.05Lux/F1.6 (Color) 0.005Lux/F1.6 (B/W)
Lens	4.8~120mm (25x Optical zoom)	5~75mm (15x Optical zoom)	5~75mm (15x Optical zoom)	5~75mm (15x Optical zoom)	2.7~11mm (4x Optical zoom)
FOV-H	58.5°~2.8°	58.9°~5.1°	58.9°~5.1°	58.9°~5.1°	112.5° ~ 30°
Day/Night	ICR	ICR	ICR	ICR	ICR
Max. IR Distance	100m(328ft)	--	--	--	--
OSD Menu	Supported	Supported	Supported	Supported	Supported
WDR	120dB True WDR	120dB True WDR	120dB True WDR	120dB True WDR	120dB True WDR
Noise Reduction	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D
Frame Rate	30fps@1080P 30/60fps@720P	30fps@1080P 30/60fps@720P	30fps@1080P 30/60fps@720P	30fps@1080P 30/60fps@720P	30fps@1080P 30/60fps@720P
Video Output	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable
Pan/Tilt	Pan: 0° ~ 360° endless Tilt: -15° ~ 90°	Pan: 0° ~ 360° endless Tilt: 0° ~ 90°	Pan: 0° ~ 360° endless Tilt: 0° ~ 90°	Pan: 0° ~ 360° endless Tilt: 0° ~ 90°	Pan: 0° ~ 355° Tilt: 0° ~ 90°
Preset Speed	Pan: 240°/s Tilt: 200°/s	Pan: 300°/s Tilt: 200°/s	Pan: 300°/s Tilt: 200°/s	Pan: 300°/s Tilt: 200°/s	Pan: 100°/s Tilt: 60°/s
Audio In	1	1	1	1	--
Alarm In/Out	2/1	2/1	2/1	2/1	--
Ingress Protection	IP66	IP66, IK10	IP66, IK10	IK10	IP66, IK10
Working Temperature	-40°C~+70°C (-40°F~+158°F)	-40°C~+60°C (-40°F~+140°F)	-30°C ~ +60°C (-22°F~+140°F)	-30°C ~ +60°C (-22°F~+140°F)	-30°C ~ +60°C (-22°F~+140°F)
Power	DC12V Max. 23.2W	DC12V Max. 12W	DC12V Max. 12W	DC12V Max. 12W	DC12V Max. 6W

# HDCVI RECORDERS



# WizSense 4K Series

The WizSense 4K Series is a perfect choice for medium to large-scale business and projects where both high reliability and flexibility are required. With its adoption of AI, this series can provide potential risk prevention, real-time event alarm, and quick inquiry while ensuring excellent video quality with high resolution (4K).



## SMD Plus

Categorizes the targets detected by motion detection and filters false alarms triggered by non-target objects, realizing accurate alarm for humans and vehicles.



## Face Recognition

Supports real-time face comparison, recording of face image metadata, as well as quick location of targets using image and face attribute search.



## Perimeter Protection

Offers tripwire and area intrusion detection with people and vehicle classification, achieving highly accurate alarms and reducing unnecessary alarm notifications.



## AI Coding

Automatically encodes target's details through recognition of moving human or vehicle, significantly decreasing bandwidth and reducing HDD storage costs.

# HDCVI RECORDERS

## WizSense 4K Series

	8 HDD		4 HDD		2 HDD
Model	XVR7816S-4K-I2	XVR7808S-4K-I2	XVR7416L-4K-I2	XVR7408L-4K-I2	XVR7216AN-4K-I2
Appearance					
Video Compression	AI Coding/H.265+/H.265/H.264+/H.264	AI Coding/H.265+/H.265/H.264+/H.264	AI Coding/H.265+/H.265/H.264+/H.264	AI Coding/H.265+/H.265/H.264+/H.264	AI Coding/H.265+/H.265/H.264+/H.264
Audio Compression	G.711/PCM	G.711/PCM	G.711/PCM	G.711/PCM	G.711/PCM
Video Standard	HDCVI/AHD/CVBS/TVI(Auto-detect)	HDCVI/AHD/CVBS/TVI(Auto-detect)	HDCVI/AHD/CVBS/TVI(Auto-detect)	HDCVI/AHD/CVBS/TVI(Auto-detect)	HDCVI/AHD/CVBS/TVI(Auto-detect)
Max. Recording Resolution	CH01-16: 4K	CH01-08: 4K	CH01-16: 4K	CH01-08: 4K	CH01-16: 4K
Max. HDCVI Recording Rate	15fps@4K, 20fps@6MP 25fps@5MP, 30fps@4MP 30fps@3MP, 30fps@1080P	15fps@4K, 20fps@6MP 25fps@5MP, 30fps@4MP 30fps@3MP, 30fps@1080P	15fps@4K, 20fps@6MP 25fps@5MP, 30fps@4MP 30fps@3MP, 30fps@1080P	15fps@4K, 20fps@6MP 25fps@5MP, 30fps@4MP 30fps@3MP, 30fps@1080P	15fps@4K, 20fps@6MP 25fps@5MP, 30fps@4MP 30fps@3MP, 30fps@1080P
CVBS Input	16CH,1.0Vp-p,75Ω	8CH,1.0Vp-p,75Ω	16CH,1.0Vp-p,75Ω	8CH,1.0Vp-p,75Ω	16CH,1.0Vp-p,75Ω
IP Camera Input	16+16 Up to 12MP	8+8 Up to 12MP	16+16 Up to 12MP	8+8 Up to 12MP	16+16 Up to 8MP
Max IP Input/Record	128Mbps/128Mbps	128Mbps/128Mbps	128Mbps/128Mbps	128Mbps/128Mbps	128Mbps/128Mbps
Audio In/out	16/1, 2-way	8/1, 2-way	4/1, 2-way	4/1, 2-way	1/1, 2-way
Max HDD	8×10TB	8×10TB	4×10TB	4×10TB	2×10TB
Display	HDMI1(3840x2160) HDMI2/VGA(1920x1080),TV SPOT (configurable)	HDMI1(3840x2160) HDMI2/VGA(1920x1080),TV SPOT (configurable)	HDMI1(3840x2160) HDMI2/VGA(1920x1080),TV SPOT (configurable)	HDMI1(3840x2160) HDMI2/VGA(1920x1080),TV SPOT (configurable)	HDMI(3840x2160) VGA(1920x1080),TV SPOT (configurable)
eSATA	1	1	1	1	--
USB	2 USB3.0, 2 USB2.0	2 USB3.0, 2 USB2.0	2 USB3.0, 1 USB2.0	2 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0
DVD Burner	USB/SATA	USB/SATA	USB/SATA	USB/SATA	USB
Alarm In/Out	16/6	16/6	16/6	16/6	--
Ethernet	2 Gigabit ports	2 Gigabit ports	1 Gigabit port	1 Gigabit port	1 Gigabit port
Remote User Login	128	128	128	128	128
Dimensions	440mm×456mm×95mm (17.3"×17.9"×3.7")	440mm×456mm×95mm (17.3"×17.9"×3.7")	440mm×416mm×76mm (17.3"×16.4"×3.0")	440mm×416mm×76mm (17.3"×16.4"×3.0")	375mm×332mm×53mm (14.7"×13.0"×2.09")
Power	AC 100-240V,50/60Hz ≤30W(Without HDD)	AC 100-240V,50/60Hz ≤20W(Without HDD)	AC 100-240V,50/60Hz ≤30W(Without HDD)	AC 100-240V,50/60Hz ≤20W(Without HDD)	DC12V/5A, ≤15W(Without HDD)
Perimeter Protection	Up to 6 channels	Up to 2 channels	Up to 6 channels	Up to 2 channels	Up to 6 channels
Face Recognition	Up to 12 face pic/s face recognition 6 channel video stream 10 face database with up to 20,000 face images in total	Up to 12 face pic/s face recognition 2 channel video stream 10 face database with up to 20,000 face images in total	Up to 12 face pic/s face recognition 6 channel video stream 10 face database with up to 20,000 face images in total	Up to 12 face pic/s face recognition 2 channel video stream 10 face database with up to 20,000 face images in total	Up to 12 face pic/s face recognition 6 channel video stream 10 face database with up to 20,000 face images in total
SMD Plus	Up to 16 channels	Up to 8 channels	Up to 16 channels	Up to 8 channels	Up to 16 channels

# HDCVI RECORDERS

## WizSense 4K Series

	2 HDD		1 HDD		
Model	XVR7208A-4K-I2	XVR7108HE-4K-I2	XVR7104HE-4K-I2	XVR7108H-4K-I2	XVR7104H-4K-I2
Appearance					
Video Compression	AI Coding/H.265+/H.265/H.264+/H.264	AI Coding/H.265+/H.265/H.264+/H.264	AI Coding/H.265+/H.265/H.264+/H.264	AI Coding/H.265+/H.265/H.264+/H.264	AI Coding/H.265+/H.265/H.264+/H.264
Audio Compression	G.711/PCM	G.711/PCM	G.711/PCM	G.711/PCM	G.711/PCM
Video Standard	HDCVI/AHD/CVBS/TVI(Auto-detect)	HDCVI/AHD/CVBS/TVI(Auto-detect)	HDCVI/AHD/CVBS/TVI(Auto-detect)	HDCVI/AHD/CVBS/TVI(Auto-detect)	HDCVI/AHD/CVBS/TVI(Auto-detect)
Max. Recording Resolution	CH01-08: 4K	CH01-08: 4K	CH01-04: 4K	CH01-08: 4K	CH01-04: 4K
Max. HDCVI Recording Rate	15fps@4K, 20fps@6MP 25fps@5MP, 30fps@4MP 30fps@3MP, 30fps@1080P	15fps@4K, 20fps@6MP 25fps@5MP, 30fps@4MP 30fps@3MP, 30fps@1080P	15fps@4K, 20fps@6MP 25fps@5MP, 30fps@4MP 30fps@3MP, 30fps@1080P	15fps@4K, 20fps@6MP 25fps@5MP, 30fps@4MP 30fps@3MP, 30fps@1080P	15fps@4K, 20fps@6MP 25fps@5MP, 30fps@4MP 30fps@3MP, 30fps@1080P
CVBS Input	8CH,1.0Vp-p,75Ω	8CH,1.0Vp-p,75Ω	4CH,1.0Vp-p,75Ω	8CH,1.0Vp-p,75Ω	4CH,1.0Vp-p,75Ω
IP Camera Input	8+8 Up to 8MP	8+8 Up to 8MP	4+4 Up to 8MP	8+8 Up to 8MP	4+4 Up to 8MP
Max IP Input/Record	128Mbps/128Mbps	128Mbps/128Mbps	128Mbps/128Mbps	128Mbps/128Mbps	128Mbps/128Mbps
Audio In/out	4/1, 2-way	8/1, 2-way	4/1, 2-way	1/1, 2-way	1/1, 2-way
Max HDD	2×10TB	1×10TB	1×10TB	1×10TB	1×10TB
Display	HDMI(3840x2160) VGA(1920x1080) SPOT (configurable)	HDMI(3840x2160) VGA(1920x1080) SPOT (configurable)	HDMI(3840x2160) VGA(1920x1080) SPOT (configurable)	HDMI(3840x2160) VGA(1920x1080) SPOT (configurable)	HDMI(3840x2160) VGA(1920x1080) SPOT (configurable)
eSATA	--	--	--	--	--
USB	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0
DVD Burner	USB	USB	USB	USB	USB
Alarm In/Out	8/3	8/3	8/3	--	--
Ethernet	1 Gigabit port	1 Gigabit port	1 Gigabit port	1 Gigabit port	1 Gigabit port
Remote User Login	128	128	128	128	128
Dimensions	375mm×288mm×53mm (14.8"×11.3"×2.1")	325mm×257mm×55mm (12.8"×10.0"×2.2")	325mm×257mm×55mm (12.8"×10.0"×2.2")	325mm×257mm×55mm (12.8"×10.0"×2.2")	325mm×255mm×55mm (12.8"×10.0"×2.2")
Power	DC12V/5A, ≤15W(Without HDD)	DC12V/3A, ≤15W(Without HDD)	DC12V/2A, ≤10W(Without HDD)	DC12V/3A, ≤15W(Without HDD)	DC12V/2A, ≤10W(Without HDD)
Perimeter Protection	Up to 2 channels	Up to 2 channels	Up to 2 channels	Up to 2 channels	Up to 2 channels
Face Recognition	Up to 12 face pic/s face recognition 2 channel video stream 10 face database with up to 20,000 face images in total	Up to 12 face pic/s face recognition 2 channel video stream 10 face database with up to 20,000 face images in total	Up to 12 face pic/s face recognition 2 channel video stream 10 face database with up to 20,000 face images in total	Up to 12 face pic/s face recognition 2 channel video stream 10 face database with up to 20,000 face images in total	Up to 12 face pic/s face recognition 2 channel video stream 10 face database with up to 20,000 face images in total
SMD Plus	Up to 8 channels	Up to 8 channels	Up to 4 channels	Up to 8 channels	Up to 4 channels

# WizSense 5MP Series

HDCVI is not only the first technology to release a 4K version, but also the first one to release 16:9 5MP. It leads the industry again with a new and complete high resolution product series that better fits the needs of various applications and projects with different scales and budgets. Also, its adoption of AI significantly saves end-users' time and labor costs and greatly reduces the Total Cost of Ownership (TCO).



## SMD Plus

Categorizes the targets detected by motion detection and filters false alarms triggered by non-target objects, realizing accurate alarm for humans and vehicles.



## Face Recognition

Supports real-time face comparison, recording of face image metadata, as well as quick location of targets using image and face attribute search.



## Perimeter Protection

Offers tripwire and area intrusion detection with people and vehicle classification, achieving highly accurate alarms and reducing unnecessary alarm notifications.








## AI Coding

Automatically encodes target's details through recognition of moving human or vehicle, significantly decreasing bandwidth and reducing HDD storage costs.

# HDCVI RECORDERS







## WizSense 5MP Series

	8 HDD		4 HDD		2 HDD
Model	XVR5832S-4KL-I2	XVR5816S-4KL-I2	XVR5432L-4KL-I2	XVR5416L-4KL-I2	XVR5232AN-4KL-I2
Appearance					
Video Compression	AI Coding/H.265+/H.265/H.264+/H.264	AI Coding/H.265+/H.265/H.264+/H.264	AI Coding/H.265+/H.265/H.264+/H.264	AI Coding/H.265+/H.265/H.264+/H.264	AI Coding/H.265+/H.265/H.264+/H.264
Audio Compression	G.711/PCM	G.711/PCM	G.711/PCM	G.711/PCM	G.711/PCM
Video Standard	HDCVI/AHD/CVBS/TVI(Auto-detect)	HDCVI/AHD/CVBS/TVI(Auto-detect)	HDCVI/AHD/CVBS/TVI(Auto-detect)	HDCVI/AHD/CVBS/TVI(Auto-detect)	HDCVI/AHD/CVBS/TVI(Auto-detect)
Max. Recording Resolution	CH01-32: 4K	CH01-16: 4K	CH01-32: 4K	CH01-16: 4K	CH01-32: 4K
Max. HDCVI Recording Rate	10fps@4K 10fps@6MP, 12fps@5MP 15fps@4MP, 15fps@3MP 30fps@4M-N, 30fps@1080P	10fps@4K 10fps@6MP, 12fps@5MP 15fps@4MP, 15fps@3MP 30fps@4M-N, 30fps@1080P	10fps@4K 10fps@6MP, 12fps@5MP 15fps@4MP, 15fps@3MP 30fps@4M-N, 30fps@1080P	10fps@4K 10fps@6MP, 12fps@5MP 15fps@4MP, 15fps@3MP 30fps@4M-N, 30fps@1080P	10fps@4K 10fps@6MP, 12fps@5MP 15fps@4MP, 15fps@3MP 30fps@4M-N, 30fps@1080P
CVBS Input	32CH,1.0Vp-p,75Ω	16CH,1.0Vp-p,75Ω	32CH,1.0Vp-p,75Ω	16CH,1.0Vp-p,75Ω	32CH,1.0Vp-p,75Ω
IP Camera Input	32 Up to 12MP	16+16 Up to 12MP	32 Up to 12MP	16+16 Up to 12MP	32 Up to 8MP
Max IP Input/Record	128Mbps/128Mbps	128Mbps/128Mbps	128Mbps/128Mbps	128Mbps/128Mbps	128Mbps/128Mbps
Audio In/out	16/1, 2-way	16/1, 2-way	4/1, 2-way	4/1, 2-way	1/1, 2-way
Max HDD	8x10TB	8x10TB	4x10TB	4x10TB	2x10TB
Display	HDMI 1(3840x2160) HDMI 2/VGA(1920x1080),TV SPOT (configurable)	HDMI 1(3840x2160) HDMI 2/VGA(1920x1080),TV SPOT (configurable)	HDMI 1(3840x2160) HDMI 2/VGA(1920x1080),TV SPOT (configurable)	HDMI 1(3840x2160) HDMI 2/VGA(1920x1080),TV SPOT (configurable)	HDMI(3840x2160) VGA(1920x1080) SPOT (configurable)
eSATA	1	1	1	1	--
USB	2 USB 3.0, 2 USB 2.0	2 USB 3.0, 2 USB 2.0	2 USB 3.0, 1 USB 2.0	2 USB 3.0, 1 USB 2.0	1 USB 3.0, 1 USB 2.0
DVD Burner	USB/SATA	USB/SATA	USB/SATA	USB/SATA	USB
Alarm In/Out	16/6	16/6	16/6	16/6	--
Ethernet	2 Gigabit ports	2 Gigabit ports	1 Gigabit port	1 Gigabit port	1 Gigabit port
Remote User Login	128	128	128	128	128
Dimensions	440mm×463mm×95mm (17.3"×18.2"×3.7")	440mm×463mm×95mm (17.3"×18.2"×3.7")	440mm×421mm×76mm (17.3"×16.5"×3.0")	440mm×421mm×76mm (17.3"×16.5"×3.0")	375mm×335mm×53mm (14.8"×13.2"×2.1")
Power	AC 100-240V,50/60Hz, ≤30W (Without HDD)	AC 100-240V,50/60Hz, ≤20W (Without HDD)	AC 100-240V,50/60Hz, ≤30W (Without HDD)	AC 100-240V,50/60Hz ≤20W (Without HDD)	DC12V/5A, ≤32W(Without HDD)
Perimeter Protection	Up to 6 channels	Up to 2 channels	Up to 6 channels	Up to 2 channels	Up to 6 channels
Face Recognition	Up to 12 face pic/s face recognition 6 channel video stream 10 face database with up to 20,000 face images in total	Up to 12 face pic/s face recognition 2 channel video stream 10 face database with up to 20,000 face images in total	Up to 12 face pic/s face recognition 6 channel video stream 10 face database with up to 20,000 face images in total	Up to 12 face pic/s face recognition 2 channel video stream 10 face database with up to 20,000 face images in total	Up to 12 face pic/s face recognition 6 channel video stream 10 face database with up to 20,000 face images in total
SMD Plus	Up to 32 channels	Up to 16 channels	Up to 32 channels	Up to 16 channels	Up to 32 channels



# HDCVI RECORDERS

WizSense 5MP Series

	2 HDD				1 HDD	
Model	XVR5216A-4KL-I2	XVR5208A-4KL-I2	XVR5216AN-4KL-I2	XVR5208AN-4KL-I2	XVR5116HE-4KL-I2	XVR5108HE-4KL-I2
Appearance						
Video Compression	AI Coding/H.265+/H.265/H.264+/H.264	AI Coding/H.265+/H.265/H.264+/H.264	AI Coding/H.265+/H.265/H.264+/H.264	AI Coding/H.265+/H.265/H.264+/H.264	AI Coding/H.265+/H.265/H.264+/H.264	AI Coding/H.265+/H.265/H.264+/H.264
Audio Compression	G.711/PCM	G.711/PCM	G.711/PCM	G.711/PCM	G.711/PCM	G.711/PCM
Video Standard	HDCVI/AHD/CVBS/TVI(Auto-detect)	HDCVI/AHD/CVBS/TVI(Auto-detect)	HDCVI/AHD/CVBS/TVI(Auto-detect)	HDCVI/AHD/CVBS/TVI(Auto-detect)	HDCVI/AHD/CVBS/TVI(Auto-detect)	HDCVI/AHD/CVBS/TVI(Auto-detect)
Max. Recording Resolution	CH01-16: 4K	CH01-08: 4K	CH01-16: 4K	CH01-08: 4K	CH01-16: 4K	CH01-08: 4K
Max. HDCVI Recording Rate	10fps@4K, 10fps@6MP 12fps@5MP, 15fps@4MP 15fps@3MP, 30fps@4M-N 30fps @1080P	10fps@4K, 10fps@6MP 12fps@5MP, 15fps@4MP 15fps@3MP, 30fps@4M-N 30fps @1080P	10fps@4K, 10fps@6MP 12fps@5MP, 15fps@4MP 15fps@3MP, 30fps@4M-N 30fps @1080P	10fps@4K, 10fps@6MP 12fps@5MP, 15fps@4MP 15fps@3MP, 30fps@4M-N 30fps @1080P	10fps@4K, 10fps@6MP 12fps@5MP, 15fps@4MP 15fps@3MP, 30fps@4M-N 30fps @1080P	10fps@4K, 10fps@6MP 12fps@5MP, 15fps@4MP 15fps@3MP, 30fps@4M-N 30fps @1080P
CVBS Input	16CH,1.0Vp-p,75Ω	8CH,1.0Vp-p,75Ω	16CH,1.0Vp-p,75Ω	8CH,1.0Vp-p,75Ω	16CH,1.0Vp-p,75Ω	8CH,1.0Vp-p,75Ω
IP Camera Input	16+16 Up to 8MP	8+8 Up to 8MP	16+16 Up to 8MP	8+8 Up to 8MP	16+16 Up to 8MP	8+8 Up to 8MP
Max IP Input/Record	128Mbps/128Mbps	128Mbps/128Mbps	128Mbps/128Mbps	128Mbps/128Mbps	128Mbps/128Mbps	128Mbps/128Mbps
Audio In/out	4/1, 2-way	4/1, 2-way	1/1, 2-way	1/1, 2-way	16/1, 2-way	8/1, 2-way
Max HDD	2x10TB	2x10TB	2x10TB	2x10TB	1x10TB	1x10TB
Display	HDMI(3840x2160) VGA(1920x1080) SPOT (configurable)	HDMI(3840x2160) VGA(1920x1080) SPOT (configurable)	HDMI(3840x2160) VGA(1920x1080) SPOT (configurable)	HDMI(3840x2160) VGA(1920x1080) SPOT (configurable)	HDMI(3840x2160) VGA(1920x1080) SPOT (configurable)	HDMI(3840x2160) VGA(1920x1080) SPOT (configurable)
eSATA	--	--	--	--	--	--
USB	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0
DVD Burner	USB	USB	USB	USB	USB	USB
Alarm In/Out	16/3	8/3	--	--	16/3	8/3
Ethernet	1 Gigabit port	1 Gigabit port	1 Gigabit port	1 Gigabit port	1 Gigabit port	1 Gigabit port
Remote User Login	128	128	128	128	128	128
Dimensions	375mmx288mmx53mm (14.8"x11.3"x2.1")	375mmx288mmx53mm (14.8"x11.3"x2.1")	375mmx288mmx53mm (14.8"x11.3"x2.1")	375mmx288mmx53mm (14.8"x11.3"x2.1")	325mmx257mmx55mm (12.8"x10.1"x2.2")	325mmx257mmx55mm (12.8"x10.1"x2.2")
Power	DC12V/5A, ≤15W(Without HDD)	DC12V/4A, ≤10W(Without HDD)	DC12V/5A, ≤15W(Without HDD)	DC12V/4A, ≤10W(Without HDD)	DC12V/3A, ≤15W(Without HDD)	DC12V/2A, ≤10W(Without HDD)
Perimeter Protection	Up to 2 channels	Up to 2 channels	Up to 2 channels	Up to 2 channels	Up to 2 channels	Up to 2 channels
Face Recognition	Up to 12 face pic/s face recognition 2 channel video stream 10 face database with up to 20,000 face images in total	Up to 12 face pic/s face recognition 2 channel video stream 10 face database with up to 20,000 face images in total	Up to 12 face pic/s face recognition 2 channel video stream 10 face database with up to 20,000 face images in total	Up to 12 face pic/s face recognition 2 channel video stream 10 face database with up to 20,000 face images in total	Up to 12 face pic/s face recognition 2 channel video stream 10 face database with up to 20,000 face images in total	Up to 12 face pic/s face recognition 2 channel video stream 10 face database with up to 20,000 face images in total
SMD Plus	Up to 16 channels	Up to 8 channels	Up to 16 channels	Up to 8 channels	Up to 16 channels	Up to 8 channels

HDCVI RECORDERS

# HDCVI RECORDERS

## WizSense 5MP Series

### 1 HDD

Model	XVR5104HE-4KL-I2	XVR5116H-4KL-I2	XVR5108H-4KL-I2	XVR5104H-4KL-I2	XVR5108HS-4KL-I2
Appearance					
Video Compression	AI Coding/H.265+/H.265/ H.264+/H.264	AI Coding/H.265+/H.265/ H.264+/H.264	AI Coding/H.265+/H.265/ H.264+/H.264	AI Coding/H.265+/H.265/ H.264+/H.264	AI Coding/H.265+/H.265/ H.264+/H.264
Audio Compression	G.711/PCM	G.711/PCM	G.711/PCM	G.711/PCM	G.711/PCM
Video Standard	HDCVI/AHD/CVBS/TVI(Auto-detect)	HDCVI/AHD/CVBS/TVI(Auto-detect)	HDCVI/AHD/CVBS/TVI(Auto-detect)	HDCVI/AHD/CVBS/TVI(Auto-detect)	HDCVI/AHD/CVBS/TVI(Auto-detect)
Max. Recording Resolution	CH01-04: 4K	CH01-16: 4K	CH01-08: 4K	CH01-04: 4K	CH01-08: 4K
Max. HDCVI Recording Rate	10fps@4K, 10fps@6MP 12fps@5MP, 15fps@4MP 15fps@3MP, 30fps@4M-N 30fps@1080P	10fps@4K, 10fps@6MP 12fps@5MP, 15fps@4MP 15fps@3MP, 30fps@4M-N 30fps@1080P	10fps@4K, 10fps@6MP 12fps@5MP, 15fps@4MP 15fps@3MP, 30fps@4M-N 30fps@1080P	10fps@4K, 10fps@6MP 12fps@5MP, 15fps@4MP 15fps@3MP, 30fps@4M-N 30fps@1080P	10fps@4K, 10fps@6MP 12fps@5MP, 15fps@4MP 15fps@3MP, 30fps@4M-N 30fps@1080P
CVBS Input	4CH,1.0Vp-p,75Ω	16CH,1.0Vp-p,75Ω	8CH,1.0Vp-p,75Ω	4CH,1.0Vp-p,75Ω	8CH,1.0Vp-p,75Ω
IP Camera Input	4+4 Up to 8MP	16+16 Up to 8MP	8+8 Up to 8MP	4+4 Up to 8MP	8+8 Up to 8MP
Max IP Input/Record	64Mbps/64Mbps	128Mbps/128Mbps	128Mbps/128Mbps	64Mbps/64Mbps	128Mbps/128Mbps
Audio In/out	4/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way
Max HDD	1×10TB	1×10TB	1×10TB	1×10TB	1×10TB
Display	HDMI(3840x2160) VGA(1920x1080) SPOT (configurable)	HDMI(3840x2160) VGA(1920x1080) SPOT (configurable)	HDMI(3840x2160) VGA(1920x1080) SPOT (configurable)	HDMI(3840x2160) VGA(1920x1080) SPOT (configurable)	HDMI(3840x2160) VGA(1920x1080) SPOT (configurable)
eSATA	--	--	--	--	--
USB	2 USB2.0	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0	2 USB2.0	1 USB3.0, 1 USB2.0
DVD Burner	USB	USB	USB	USB	USB
Alarm In/Out	8/3	--	--	--	--
Ethernet	1x100M port	1 Gigabit port	1 Gigabit port	1x100M port	1 Gigabit port
Remote User Login	128	128	128	128	128
Dimensions	325mm×257mm×55mm (12.8"×10.1"×2.2")	325mm×257mm×55mm (12.8"×10.1"×2.2")	325mm×257mm×55mm (12.8"×10.1"×2.2")	325mm×257mm×55mm (12.8"×10.1"×2.2")	260×238×48mm (10.2"×9.3"×1.9")
Power	DC12V/2A, ≤7W(Without HDD)	DC12V/3A, ≤15W(Without HDD)	DC12V/2A, ≤10W(Without HDD)	DC12V/2A, ≤7W(Without HDD)	DC12V/2A, ≤10W(Without HDD)
Perimeter Protection	Up to 2 channels	Up to 2 channels	Up to 2 channels	Up to 2 channels	Up to 2 channels
Face Recognition	Up to 8 face pic/s face recognition 2 channel video stream 10 face database with up to 20,000 face images in total	Up to 12 face pic/s face recognition 2 channel video stream 10 face database with up to 20,000 face images in total	Up to 12 face pic/s face recognition 2 channel video stream 10 face database with up to 20,000 face images in total	Up to 8 face pic/s face recognition 2 channel video stream 10 face database with up to 20,000 face images in total	Up to 12 face pic/s face recognition 2 channel video stream 10 face database with up to 20,000 face images in total
SMD Plus	Up to 4 channels	Up to 16 channels	Up to 8 channels	Up to 4 channels	Up to 8 channels

# HDCVI RECORDERS

## WizSense 5MP Series

### 1 HDD

Model	XVR5104HS-4KL-I2	XVR5104HE-4KL-I3	XVR5104H-4KL-I3	XVR5104HS-4KL-I3	XVR5104C-4KL-I3
Appearance					
Video Compression	AI Coding/H.265+/H.265/H.264+/H.264	AI Coding/H.265+/H.265/H.264+/H.264	AI Coding/H.265+/H.265/H.264+/H.264	AI Coding/H.265+/H.265/H.264+/H.264	AI Coding/H.265+/H.265/H.264+/H.264
Audio Compression	G.711/PCM	G.711/PCM	G.711/PCM	G.711/PCM	G.711/PCM
Video Standard	HDCVI/AHD/CVBS/TVI(Auto-detect)	HDCVI/AHD/CVBS/TVI(Auto-detect)	HDCVI/AHD/CVBS/TVI(Auto-detect)	HDCVI/AHD/CVBS/TVI(Auto-detect)	HDCVI/AHD/CVBS/TVI(Auto-detect)
Max. Recording Resolution	CH01-04: 4K	CH01-04: 4K	CH01-04: 4K	CH01-04: 4K	CH01-04: 4K
Max. HDCVI Recording Rate	10fps@4K, 10fps@6MP 12fps@5MP, 15fps@4MP 15fps@3MP, 30fps@4M-N 30fps@1080P	10fps@4K, 10fps@6MP 12fps@5MP, 15fps@4MP 15fps@3M, 30fps@4M-N 30fps@1080P	10fps@4K, 10fps@6MP 12fps@5MP, 15fps@4MP 15fps@3MP, 30fps@4M-N 30fps@1080P	10fps @4K, 10fps @6MP 12fps @5MP, 15fps @4MP 15fps @3MP, 30fps @4M-N 30fps @1080P	10fps @4K, 10fps @6MP 12fps @5MP, 15fps @4MP 15fps @3MP, 30fps @4M-N 30fps @1080P
CVBS Input	4CH,1.0Vp-p,75Ω	4CH,1.0Vp-p,75Ω	4CH,1.0Vp-p,75Ω	4CH,1.0Vp-p,75Ω	4CH,1.0Vp-p,75Ω
IP Camera Input	4+4 Up to 8MP	4+4 Up to 8MP	4+4 Up to 8MP	4+4 Up to 8MP	4+4 Up to 8MP
Max IP Input/Record	64Mbps/64Mbps	64Mbps/64Mbps	64Mbps/64Mbps	64Mbps/64Mbps	64Mbps/64Mbps
Audio In/out	1/1, 2-way	4/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way
Max HDD	1x10TB	1x10TB	1x10TB	1x10TB	1x10TB
Display	HDMI(3840x2160) VGA(1920x1080), SPOT (configurable)	HDMI(3840x2160) VGA(1920x1080)	HDMI(3840x2160) VGA(1920x1080)	HDMI(3840x2160) VGA(1920x1080)	HDMI(3840x2160) VGA(1920x1080)
eSATA	--	--	--	--	--
USB	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0
DVD Burner	USB	USB	USB	USB	USB
Alarm In/Out	--	8/3	--	--	--
Ethernet	1x100M port	1x100M port	1x100M port	1x100M port	1x100M port
Remote User Login	128	128	128	128	128
Dimensions	260x238x48mm (10.2"x9.3"x1.9")	325mmx257mmx55mm (12.8"x10.1"x2.2")	325mmx257mmx55mm (12.8"x10.1"x2.2")	260x238x48mm (10.2"x9.3"x1.9")	205mmx211mmx45mm (8.1"x8.3"x1.8")
Power	DC12V/2A, ≤7W (Without HDD)	DC12V/2A, ≤7W(Without HDD)	DC12V/2A, ≤7W(Without HDD)	DC12V/2A, ≤7W(Without HDD)	DC12V/2A, ≤7W(Without HDD)
Perimeter Protection	Up to 2 channels	Up to 1 channel	Up to 1 channel	Up to 1 channel	Up to 1 channel
Face Recognition	Up to 8 face pic/s face recognition 2 channel video stream 10 face database with up to 20,000 face images in total	Up to 8 face pic/s face recognition 1 channel video stream 10 face database with up to 20,000 face images in total	Up to 8 face pic/s face recognition 1 channel video stream 10 face database with up to 20,000 face images in total	Up to 8 face pic/s face recognition 1 channel video stream 10 face database with up to 20,000 face images in total	Up to 8 face pic/s face recognition 1 channel video stream 10 face database with up to 20,000 face images in total
SMD Plus	Up to 4 channels	Up to 4 channels	Up to 4 channels	Up to 4 channels	Up to 4 channels

# WizSense 5M-N / 1080P Series

The WizSense 5M-N/1080P Series provides an excellent cost/performance solution suitable for various applications. This series offers 5MP HDCVI camera, providing users with the most cost-effective 5MP solution. In addition, it is also equipped with AI features that bring more value to customers.



## SMD Plus

Categorizes the targets detected by motion detection and filters false alarms triggered by non-target objects, realizing accurate alarm for humans and vehicles.



## Face Recognition

Supports real-time face comparison, recording of face image metadata, as well as quick location of targets using image and face attribute search.



## Perimeter Protection

Offers tripwire and area intrusion detection with people and vehicle classification, achieving highly accurate alarms and reducing unnecessary alarm notifications.









## AI Coding

Automatically encodes target's details through recognition of moving human or vehicle, significantly decreasing bandwidth and reducing HDD storage costs.

# HDCVI RECORDERS

## WizSense 5M-N/1080P Series

	8 HDD			4 HDD		
Model	XVR5832S-I2	XVR5816S-I2	XVR5808S-I2	XVR5432L-I2	XVR5416L-I2	XVR5408L-I2
Appearance						
Video Compression	AI Coding/H.265+/H.265/H.264+/H.264	AI Coding/H.265+/H.265/H.264+/H.264	AI Coding/H.265+/H.265/H.264+/H.264	AI Coding/H.265+/H.265/H.264+/H.264	AI Coding/H.265+/H.265/H.264+/H.264	AI Coding/H.265+/H.265/H.264+/H.264
Audio Compression	G.711/PCM	G.711/PCM	G.711/PCM	G.711/PCM	G.711/PCM	G.711/PCM
Video Standard	HDCVI/AHD/CVBS/TVI (Auto-detect)	HDCVI/AHD/CVBS/TVI (Auto-detect)	HDCVI/AHD/CVBS/TVI (Auto-detect)	HDCVI/AHD/CVBS/TVI (Auto-detect)	HDCVI/AHD/CVBS/TVI (Auto-detect)	HDCVI/AHD/CVBS/TVI (Auto-detect)
Max. Recording Resolution	CH01-32: 5M-N/4M-N/1080P	CH01-16: 5M-N/4M-N/1080P	CH01-08: 5M-N/4M-N/1080P	CH01-32: 5M-N/4M-N/1080P	CH01-16: 5M-N/4M-N/1080P	CH01-08: 5M-N/4M-N/1080P
Max. HDCVI Recording Rate	10fps@5M-N, 15fps@4M-N 15fps@1080P, 30fps@720P	10fps@5M-N, 15fps@4M-N 15fps@1080P, 30fps@720P	10fps@5M-N, 15fps@4M-N 15fps@1080P, 30fps@720P	10fps@5M-N, 15fps@4M-N 15fps@1080P, 30fps@720P	10fps@5M-N, 15fps@4M-N 15fps@1080P, 30fps@720P	10fps@5M-N, 15fps@4M-N 15fps@1080P, 30fps@720P
CVBS Input	32CH,1.0Vp-p,75Ω	16CH,1.0Vp-p,75Ω	8CH,1.0Vp-p,75Ω	32CH,1.0Vp-p,75Ω	16CH,1.0Vp-p,75Ω	8CH,1.0Vp-p,75Ω
IP Camera Input	32 Up to 8MP	16+8 Up to 8MP	8+4 Up to 6MP	32 Up to 8MP	16+8 Up to 8MP	8+4 Up to 6MP
Max IP Input/Record	128Mbps/128Mbps	128Mbps/128Mbps	64Mbps/64Mbps	128Mbps/128Mbps	128Mbps/128Mbps	64Mbps/64Mbps
Audio In/out	16/1, 2-way	16/1, 2-way	8/1, 2-way	4/1, 2-way	4/1, 2-way	4/1, 2-way
Max HDD	8×10TB	8×10TB	8×10TB	4×10TB	4×10TB	4×10TB
Display	HDMI 1(3840x2160) HDMI 2/VGA(1920x1080),TV SPOT (configurable)	HDMI 1(3840x2160) HDMI 2/VGA(1920x1080),TV SPOT (configurable)	HDMI/VGA(1920x1080), TV	HDMI 1(3840x2160) HDMI 2/VGA(1920x1080),TV SPOT (configurable)	HDMI 1(3840x2160) HDMI 2/VGA(1920x1080),TV SPOT (configurable)	HDMI/VGA(1920x1080), TV
eSATA	1	1	1	1	1	1
USB	2 USB 3.0, 2 USB 2.0	2 USB 3.0, 2 USB 2.0	4 USB 2.0	2 USB 3.0, 1 USB 2.0	2 USB 3.0, 1 USB 2.0	3 USB2.0
DVD Burner	USB/SATA	USB/SATA	USB/SATA	USB/SATA	USB/SATA	USB/SATA
Alarm In/Out	16/6	16/6	8/6	16/6	16/6	8/6
Ethernet	2 Gigabit ports	2 Gigabit ports	1x100M port	1 Gigabit port	1 Gigabit port	1x100M port
Remote User Login	128	128	128	128	128	128
Dimensions	440mm×463mm×95mm (17.3"×18.2"×3.7")	440mm×463mm×95mm (17.3"×18.2"×3.7")	440mm×463mm×95mm (17.3"×18.2"×3.7")	440mm×421mm×76mm (17.3"×16.5" ×3.0")	440mm×421mm×76mm (17.3"×16.5" ×3.0")	440mm×421mm×76mm (17.3"×16.5" ×3.0")
Power	AC 100-240V,50/60Hz, ≤22W (Without HDD)	AC 100-240V,50/60Hz, ≤15W (Without HDD)	AC 100-240V,50/60Hz, ≤10W (Without HDD)	AC 100-240V,50/60Hz, ≤22W (Without HDD)	AC 100-240V,50/60Hz, ≤15W (Without HDD)	AC 100-240V,50/60Hz, ≤10W (Without HDD)
Perimeter Protection	Up to 2 channels	Up to 2 channels	Up to 2 channels	Up to 2 channels	Up to 2 channels	Up to 2 channels
Face Recognition	Up to 12 face pic/s face recognition 2 channel video stream 10 face database with up to 10,000 face images in total	Up to 12 face pic/s face recognition 2 channel video stream 10 face database with up to 10,000 face images in total	Up to 8 face pic/s face recognition 2 channel video stream 10 face database with up to 10,000 face images in total	Up to 12 face pic/s face recognition 2 channel video stream 10 face database with up to 10,000 face images in total	Up to 12 face pic/s face recognition 2 channel video stream 10 face database with up to 10,000 face images in total	Up to 8 face pic/s face recognition 2 channel video stream 10 face database with up to 10,000 face images in total
SMD Plus	Up to 16 channels	Up to 16 channels	Up to 8 channels	Up to 16 channels	Up to 16 channels	Up to 8 channels

# HDCVI RECORDERS



## WizSense 5M-N/1080P Series

	2 HDD			1 HDD	
Model	XVR5216A-I2	XVR5232AN-I2	XVR5216AN-I2	XVR5116HE-I2	XVR5108HE-I2
Appearance					
Video Compression	AI Coding/H.265+/H.265/ H.264+/H.264	AI Coding/H.265+/H.265/ H.264+/H.264	AI Coding/H.265+/H.265/ H.264+/H.264	AI Coding/H.265+/H.265/ H.264+/H.264	AI Coding/H.265+/H.265/ H.264+/H.264
Audio Compression	G.711/PCM	G.711/PCM	G.711/PCM	G.711/PCM	G.711/PCM
Video Standard	HDCVI/AHD/CVBS/TVI(Auto-detect)	HDCVI/AHD/CVBS/TVI(Auto-detect)	HDCVI/AHD/CVBS/TVI(Auto-detect)	HDCVI/AHD/CVBS/TVI(Auto-detect)	HDCVI/AHD/CVBS/TVI(Auto-detect)
Max. Recording Resolution	CH01-16: 5M-N/4M-N/1080P	CH01-32: 5M-N/4M-N/1080P	CH01-16: 5M-N/4M-N/1080P	CH01-16: 5M-N/4M-N/1080P	CH01-08: 5M-N/4M-N/1080P
Max. HDCVI Recording Rate	10fps@5M-N, 15fps@4M-N 15fps@1080P, 30fps@720P	10fps@5M-N, 15fps@4M-N 15fps@1080P, 30fps@720P	10fps@5M-N, 15fps@4M-N 15fps@1080P, 30fps@720P	10fps@5M-N, 15fps@4M-N 15fps@1080P, 30fps@720P	10fps@5M-N, 15fps@4M-N 15fps@1080P, 30fps@720P
CVBS Input	16CH,1.0Vp-p,75Ω	32CH,1.0Vp-p,75Ω	16CH,1.0Vp-p,75Ω	16CH,1.0Vp-p,75Ω	8CH,1.0Vp-p,75Ω
IP Camera Input	16+8 Up to 6MP	32 Up to 6MP	16+8 Up to 6MP	16+8 Up to 6MP	8+4 Up to 6MP
Max IP Input/Record	128Mbps/128Mbps	128Mbps/128Mbps	128Mbps/128Mbps	128Mbps/128Mbps	64Mbps/64Mbps
Audio In/out	4/1, 2-way	1/1, 2-way	1/1, 2-way	16/1, 2-way	8/1, 2-way
Max HDD	2x10TB	2x10TB	2x10TB	1x10TB	1x10TB
Display	HDMI(3840x2160) VGA(1920x1080)	HDMI 1(3840x2160) VGA(1920x1080),TV	HDMI(3840x2160) VGA(1920x1080)	HDMI(3840x2160) VGA(1920x1080)	HDMI/VGA(1920x1080)
eSATA	--	--	--	--	--
USB	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0	2 USB2.0
DVD Burner	USB	USB	USB	USB	USB
Alarm In/Out	16/3	--	--	16/3	8/3
Ethernet	1 Gigabit port	1 Gigabit port	1 Gigabit port	1 Gigabit port	1x100M port
Remote User Login	128	128	128	128	128
Dimensions	375mmx288mmx53mm (14.8" x 11.4" x 2.1")	375mmx288mmx53mm (14.8" x 11.4" x 2.1")	375mmx288mmx53mm (14.8" x 11.4" x 2.1")	325mmx257mmx55mm (12.8"x10.1"x2.2")	325mmx257mmx55mm (12.8"x10.1"x2.2")
Power	DC12V/4A, ≤12W(Without HDD)	DC12V/5A, ≤16W(Without HDD)	DC12V/4A, ≤12W(Without HDD)	DC12V/2A, ≤12W(Without HDD)	DC12V/2A, ≤7W(Without HDD)
Perimeter Protection	Up to 2 channels	Up to 2 channels	Up to 2 channels	Up to 2 channels	Up to 2 channels
Face Recognition	Up to 12 face pic/s face recognition 2 channel video stream 10 face database with up to 10,000 face images in total	Up to 12 face pic/s face recognition 2 channel video stream 10 face database with up to 10,000 face images in total	Up to 12 face pic/s face recognition 2 channel video stream 10 face database with up to 10,000 face images in total	Up to 12 face pic/s face recognition 2 channel video stream 10 face database with up to 10,000 face images in total	Up to 8 face pic/s face recognition 2 channel video stream 10 face database with up to 10,000 face images in total
SMD Plus	Up to 16 channels	Up to 16 channels	Up to 16 channels	Up to 16 channels	Up to 8 channels

# HDCVI RECORDERS

## WizSense 5M-N/1080P Series

### 1 HDD

Model	XVR5104HE-I2	XVR5116H-I2	XVR5108H-I2	XVR5104H-I2	XVR5116HS-I2
Appearance					
Video Compression	AI Coding/H.265+/H.265/ H.264+/H.264	AI Coding/H.265+/H.265/ H.264+/H.264	AI Coding/H.265+/H.265/ H.264+/H.264	AI Coding/H.265+/H.265/ H.264+/H.264	AI Coding/H.265+/H.265/ H.264+/H.264
Audio Compression	G.711/PCM	G.711/PCM	G.711/PCM	G.711/PCM	G.711/PCM
Video Standard	HDCVI/AHD/CVBS/TVI(Auto-detect)	HDCVI/AHD/CVBS/TVI(Auto-detect)	HDCVI/AHD/CVBS/TVI(Auto-detect)	HDCVI/AHD/CVBS/TVI(Auto-detect)	HDCVI/AHD/CVBS/TVI(Auto-detect)
Max. Recording Resolution	CH01-04: 5M-N/4M-N/1080P	CH01-16: 5M-N/4M-N/1080P	CH01-08: 5M-N/4M-N/1080P	CH01-04: 5M-N/4M-N/1080P	CH01-16: 5M-N/4M-N/1080P
Max. HDCVI Recording Rate	10fps@5M-N, 15fps@4M-N 15fps@1080P, 30fps@720P	10fps@5M-N, 15fps@4M-N 15fps@1080P, 30fps@720P	10fps@5M-N, 15fps@4M-N 15fps@1080P, 30fps@720P	10fps@5M-N, 15fps@4M-N 15fps@1080P, 30fps@720P	10fps@5M-N, 15fps@4M-N 15fps@1080P, 30fps@720P
CVBS Input	4CH,1.0Vp-p,75Ω	16CH,1.0Vp-p,75Ω	8CH,1.0Vp-p,75Ω	4CH,1.0Vp-p,75Ω	16CH,1.0Vp-p,75Ω
IP Camera Input	4+2 Up to 6MP	16+8 Up to 6MP	8+4 Up to 6MP	4+2 Up to 6MP	16+8 Up to 6MP
Max IP Input/Record	32Mbps/32Mbps	128Mbps/128Mbps	64Mbps/64Mbps	32Mbps/32Mbps	128Mbps/128Mbps
Audio In/out	4/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way
Max HDD	1×6TB	1×10TB	1×10TB	1×6TB	1×10TB
Display	HDMI/VGA(1920x1080)	HDMI(3840x2160) VGA(1920x1080)	HDMI/VGA(1920x1080)	HDMI/VGA(1920x1080)	HDMI(3840x2160) VGA(1920x1080)
eSATA	--	--	--	--	--
USB	2 USB2.0	1 USB3.0, 1 USB2.0	2 USB2.0	2 USB2.0	1 USB3.0, 1 USB2.0
DVD Burner	USB	USB	USB	USB	USB
Alarm In/Out	8/3	--	--	--	--
Ethernet	1x100M port	1 Gigabit port	1x100M port	1x100M port	1 Gigabit port
Remote User Login	128	128	128	128	128
Dimensions	325mm×257mm×55mm (12.8"×10.1"×2.2")	325mm×257mm×55mm (12.8"×10.1"×2.2")	325mm×257mm×55mm (12.8"×10.1"×2.2")	325mm×257mm×55mm (12.8"×10.1"×2.2")	260mm×238mm×48mm (10.2"×9.3"×1.9")
Power	DC12V/1.5A, ≤4W(Without HDD)	DC12V/2A, ≤12W(Without HDD)	DC12V/2A, ≤7W(Without HDD)	DC12V/1.5A, ≤4W(Without HDD)	DC12V/2A, ≤12W(Without HDD)
Perimeter Protection	Up to 2 channels	Up to 2 channels	Up to 2 channels	Up to 2 channels	Up to 2 channels
Face Recognition	Up to 8 face pic/s face recognition 1 channel video stream 10 face database with up to 10,000 face images in total	Up to 12 face pic/s face recognition 2 channel video stream 10 face database with up to 10,000 face images in total	Up to 8 face pic/s face recognition 2 channel video stream 10 face database with up to 10,000 face images in total	Up to 8 face pic/s face recognition 1 channel video stream 10 face database with up to 10,000 face images in total	Up to 12 face pic/s face recognition 2 channel video stream 10 face database with up to 10,000 face images in total
SMD Plus	Up to 4 channels	Up to 16 channels	Up to 8 channels	Up to 4 channels	Up to 16 channels

# HDCVI RECORDERS

## WizSense 5M-N/1080P Series

1 HDD

Model	XVR5108HS-I2	XVR5104HS-I2	XVR5108HE-I3	XVR5104HE-I3	XVR5108H-I3
Appearance					
Video Compression	AI Coding/H.265+/H.265/H.264+/H.264	AI Coding/H.265+/H.265/H.264+/H.264	AI Coding/H.265+/H.265/H.264+/H.264	AI Coding/H.265+/H.265/H.264+/H.264	AI Coding/H.265+/H.265/H.264+/H.264
Audio Compression	G.711/PCM	G.711/PCM	G.711/PCM	G.711/PCM	G.711/PCM
Video Standard	HDCVI/AHD/CVBS/TVI(Auto-detect)	HDCVI/AHD/CVBS/TVI(Auto-detect)	HDCVI/AHD/CVBS/TVI(Auto-detect)	HDCVI/AHD/CVBS/TVI(Auto-detect)	HDCVI/AHD/CVBS/TVI(Auto-detect)
Max. Recording Resolution	CH01-08: 5M-N/4M-N/1080P	CH01-04: 5M-N/4M-N/1080P	CH01-08: 5M-N/4M-N/1080P	CH01-04: 5M-N/4M-N/1080P	CH01-08: 5M-N/4M-N/1080P
Max. HDCVI Recording Rate	10fps@5M-N, 15fps@4M-N 15fps@1080P, 30fps@720P	10fps@5M-N, 15fps@4M-N 15fps@1080P, 30fps@720P	10fps@5M-N, 15fps@4M-N 15fps@1080P, 30fps@720P	10fps@5M-N, 15fps@4M-N 15fps@1080P, 30fps@720P	10fps@5M-N, 15fps@4M-N 15fps@1080P, 30fps@720P
CVBS Input	8CH,1.0Vp-p,75Ω	4CH,1.0Vp-p,75Ω	8CH,1.0Vp-p,75Ω	4CH,1.0Vp-p,75Ω	8CH,1.0Vp-p,75Ω
IP Camera Input	8+4 Up to 6MP	4+2 Up to 6MP	8+4 Up to 6MP	4+2 Up to 6MP	8+4 Up to 6MP
Max IP Input/Record	64Mbps/64Mbps	32Mbps/32Mbps	64Mbps/64Mbps	32Mbps/32Mbps	64Mbps/64Mbps
Audio In/out	1/1, 2-way	1/1, 2-way	8/1, 2-way	4/1, 2-way	1/1, 2-way
Max HDD	1x10TB	1x6TB	1x10TB	1x6TB	1x10TB
Display	HDMI/VGA(1920x1080)	HDMI/VGA(1920x1080)	HDMI/VGA(1920x1080)	HDMI/VGA(1920x1080)	HDMI/VGA(1920x1080)
eSATA	--	--	--	--	--
USB	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0
DVD Burner	USB	USB	USB	USB	USB
Alarm In/Out	--	--	8/3	8/3	--
Ethernet	1x100M port	1x100M port	1x100M port	1x100M port	1x100M port
Remote User Login	128	128	128	128	128
Dimensions	260mm×238mm×48mm (10.2"×9.3"×1.9")	260mm×238mm×48mm (10.2"×9.3"×1.9")	325mm×257mm×55mm (12.8"×10.1"×2.2")	325mm×257mm×55mm (12.8"×10.1"×2.2")	325mm×257mm×55mm (12.8"×10.1"×2.2")
Power	DC12V/2A, ≤7W(Without HDD)	DC12V/1.5A, ≤4W (Without HDD)	DC12V/2A, ≤7W(Without HDD)	DC12V/1.5A, ≤4W(Without HDD)	DC12V/2A, ≤7W(Without HDD)
Perimeter Protection	Up to 2 channels	Up to 2 channels	Up to 1 channel	Up to 1 channel	Up to 1 channel
Face Recognition	Up to 8 face pic/s face recognition 2 channel video stream 10 face database with up to 10,000 face images in total	Up to 8 face pic/s face recognition 1 channel video stream 10 face database with up to 10,000 face images in total	Up to 8 face pic/s face recognition 1 channel video stream 10 face database with up to 10,000 face images in total	Up to 8 face pic/s face recognition 1 channel video stream 10 face database with up to 10,000 face images in total	Up to 8 face pic/s face recognition 1 channel video stream 10 face database with up to 10,000 face images in total
SMD Plus	Up to 8 channels	Up to 4 channels	Up to 8 channels	Up to 4 channels	Up to 8 channels



# HDCVI RECORDERS

WizSense 5M-N/1080P Series

1 HDD

Model	XVR5104H-I3	XVR5108HS-I3	XVR5104HS-I3	XVR5108C-I3	XVR5104C-I3
Appearance					
Video Compression	AI Coding/H.265+/H.265/H.264+/H.264	AI Coding/H.265+/H.265/H.264+/H.264	AI Coding/H.265+/H.265/H.264+/H.264	AI Coding/H.265+/H.265/H.264+/H.264	AI Coding/H.265+/H.265/H.264+/H.264
Audio Compression	G.711/PCM	G.711/PCM	G.711/PCM	G.711/PCM	G.711/PCM
Video Standard	HDCVI/AHD/CVBS/TVI(Auto-detect)	HDCVI/AHD/CVBS/TVI(Auto-detect)	HDCVI/AHD/CVBS/TVI(Auto-detect)	HDCVI/AHD/CVBS/TVI(Auto-detect)	HDCVI/AHD/CVBS/TVI(Auto-detect)
Max. Recording Resolution	CH01-04: 5M-N/4M-N/1080P	CH01-08: 5M-N/4M-N/1080P	CH01-04: 5M-N/4M-N/1080P	CH01-08: 5M-N/4M-N/1080P	CH01-04: 5M-N/4M-N/1080P
Max. HDCVI Recording Rate	10fps@5M-N, 15fps@4M-N 15fps@1080P, 30fps@720P	10fps@5M-N, 15fps@4M-N 15fps@1080P, 30fps@720P	10fps@5M-N, 15fps@4M-N 15fps@1080P, 30fps@720P	10fps@5M-N, 15fps@4M-N 15fps@1080P, 30fps@720P	10fps@5M-N, 15fps@4M-N 15fps@1080P, 30fps@720P
CVBS Input	4CH,1.0Vp-p,75Ω	8CH,1.0Vp-p,75Ω	4CH,1.0Vp-p,75Ω	8CH,1.0Vp-p,75Ω	4CH,1.0Vp-p,75Ω
IP Camera Input	4+2 Up to 6MP	8+4 Up to 6MP	4+2 Up to 6MP	8+4 Up to 6MP	4+2 Up to 6MP
Max IP Input/Record	32Mbps/32Mbps	64Mbps/64Mbps	32Mbps/32Mbps	64Mbps/64Mbps	32Mbps/32Mbps
Audio In/out	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way
Max HDD	1×6TB	1×10TB	1×6TB	1×10TB	1×6TB
Display	HDMI/VGA(1920x1080)	HDMI/VGA(1920x1080)	HDMI/VGA(1920x1080)	HDMI/VGA(1920x1080)	HDMI/VGA(1920x1080)
eSATA	--	--	--	--	--
USB	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0
DVD Burner	USB	USB	USB	USB	USB
Alarm In/Out	--	--	--	--	--
Ethernet	1x100M port	1x100M port	1x100M port	1x100M port	1x100M port
Remote User Login	128	128	128	128	128
Dimensions	325mm×257mm×55mm (12.8"×10.1"×2.2")	260mm×238mm×48mm (10.2"×9.4"×1.9")	260mm×238mm×48mm (10.2"×9.4"×1.9")	260mm×238mm×48mm (10.2"×9.4"×1.9")	205mm×211mm×46mm (8.1"×8.3"×1.8")
Power	DC12V/1.5A, ≤4W(Without HDD)	DC12V/2A, ≤7W(Without HDD)	DC12V/1.5A, ≤4W(Without HDD)	DC12V/2A, ≤7W(Without HDD)	DC12V/1.5A, ≤4W(Without HDD)
Perimeter Protection	Up to 1 channel	Up to 1 channel	Up to 1 channel	Up to 1 channel	Up to 1 channel
Face Recognition	Up to 8 face pic/s face recognition 1 channel video stream 10 face database with up to 10,000 face images in total	Up to 8 face pic/s face recognition 1 channel video stream 10 face database with up to 10,000 face images in total	Up to 8 face pic/s face recognition 1 channel video stream 10 face database with up to 10,000 face images in total	Up to 8 face pic/s face recognition 1 channel video stream 10 face database with up to 10,000 face images in total	Up to 8 face pic/s face recognition 1 channel video stream 10 face database with up to 10,000 face images in total
SMD Plus	Up to 4 channels	Up to 8 channels	Up to 4 channels	Up to 8 channels	Up to 4 channels

HDCVI RECORDERS



# WizSense 1080N / 720P Series

This series is designed for cost-effective and high performance applications. It offers great solutions for users facing budget constraints and requiring both quality and performance. With its AI functions, the XVR is able to provide end users the simplicity of analog system, lower system cost and more application value.



### SMD Plus

Categorizes the targets detected by motion detection and filters false alarms triggered by non-target objects, realizing accurate alarm for humans and vehicles.



### AI Coding

Automatically encodes target's details through recognition of moving human or vehicle, significantly decreasing bandwidth and reducing HDD storage costs.







### DAC (Digital Audio-over-Coax)

Audio information is used as supplementary evidence for video surveillance. The DAC technology supports high quality over-coax audio transmission with low noise.

# HDCVI RECORDERS

WizSense 1080N / 720P Series

	2 HDD		1 HDD			
Model	XVR4216AN-I	XVR4116HS-I	XVR4108HS-I	XVR4104HS-I	XVR4108C-I	XVR4104C-I
Appearance						
Video Compression	AI Coding/H.265+/H.265/ H.264+/H.264	AI Coding/H.265+/H.265/ H.264+/H.264	AI Coding/H.265+/H.265/ H.264+/H.264	AI Coding/H.265+/H.265/ H.264+/H.264	AI Coding/H.265+/H.265/ H.264+/H.264	AI Coding/H.265+/H.265/ H.264+/H.264
Audio Compression	G.711/PCM	G.711/PCM	G.711/PCM	G.711/PCM	G.711/PCM	G.711/PCM
Video Standard	HDCVI/AHD/CVBS/TVI (Auto-detect)	HDCVI/AHD/CVBS/TVI (Auto-detect)	HDCVI/AHD/CVBS/TVI (Auto-detect)	HDCVI/AHD/CVBS/TVI (Auto-detect)	HDCVI/AHD/CVBS/TVI (Auto-detect)	HDCVI/AHD/CVBS/TVI (Auto-detect)
Max. Recording Resolution	CH01-16: 1080N/720P	CH01-16: 1080N/720P	CH01-08: 1080N/720P	CH01-04: 1080N/720P	CH01-08: 1080N/720P	CH01-04: 1080N/720P
Max. HDCVI Recording Rate	15fps@1080N 15fps@720P	15fps@1080N 15fps@720P	15fps@1080N 15fps@720P	30fps@1080N 30fps@720P	15fps@1080N 15fps@720P	30fps@1080N 30fps@720P
CVBS Input	16CH,1.0Vp-p,75Ω	16CH,1.0Vp-p,75Ω	8CH,1.0Vp-p,75Ω	4CH,1.0Vp-p,75Ω	8CH,1.0Vp-p,75Ω	4CH,1.0Vp-p,75Ω
IP Camera Input	16+2 Up to 6MP	16+2 Up to 6MP	8+2 Up to 6MP	4+1 Up to 2MP	8+2 Up to 6MP	4+1 Up to 2MP
Max IP Input/Record	64Mbps/64Mbps	64Mbps/64Mbps	32Mbps/32Mbps	32Mbps/32Mbps	32Mbps/32Mbps	32Mbps/32Mbps
Audio In/out	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way
Max HDD	2×10TB	1×10TB	1×6TB	1×6TB	1×6TB	1×6TB
Display	HDMI/VGA(1920x1080)	HDMI/VGA(1920x1080)	HDMI/VGA(1920x1080)	HDMI/VGA(1920x1080)	HDMI/VGA(1920x1080)	HDMI/VGA(1920x1080)
eSATA	--	--	--	--	--	--
USB	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0
DVD Burner	USB	USB	USB	USB	USB	USB
Alarm In/Out	--	--	--	--	--	--
Ethernet	1x100M port	1x100M port	1x100M port	1x100M port	1x100M port	1x100M port
Remote User Login	128	128	128	128	128	128
Dimensions	375mm×287mm×53mm (14.8"×11.3"×2.1")	260mm×236mm×48mm (10.2"×9.3"×1.9")	260mm×236mm×48mm (10.2"×9.3"×1.9")	260mm×236mm×48mm (10.2"×9.3"×1.9")	205mm×211mm×45mm (8.1"×8.3"×1.8")	205mm×211mm×45mm (8.1"×8.3"×1.8")
Power	DC12V/4A, ≤10W(Without HDD)	DC12V/2A, ≤10W (Without HDD)	DC12V/1.5A, ≤7W (Without HDD)	DC12V/1.5A, ≤4W (Without HDD)	DC12V/1.5A, ≤7W (Without HDD)	DC12V/1.5A, ≤4W (Without HDD)
Perimeter Protection	--	--	--	--	--	--
Face Recognition	--	--	--	--	--	--
SMD Plus	Up to 8 channels	Up to 8 channels	Up to 8 channels	Up to 4 channels	Up to 8 channels	Up to 4 channels

HDCVI RECORDERS



# WizSense Cooper-I Series

The Cooper-I Series offers simple and highly cost-effective HDCVI solutions. It meets the requirements for 24/7 reliable monitoring with high-quality image performance, and saves customers' product and labor costs. It is also guaranteed by Dahua quality standards.



## SMD Plus

Categorizes the targets detected by motion detection and filters false alarms triggered by non-target objects, realizing accurate alarm for humans and vehicles.



## AI Coding

Automatically encodes target's details through recognition of moving human or vehicle, significantly decreasing bandwidth and reducing HDD storage costs.



## Cost Saving

With real plug & play, compact housing designs, and competitive prices, this series allows easy installation and simple system deployment, saving time and labor costs for customers.

# HDCVI RECORDERS

WizSense Cooper-I Series

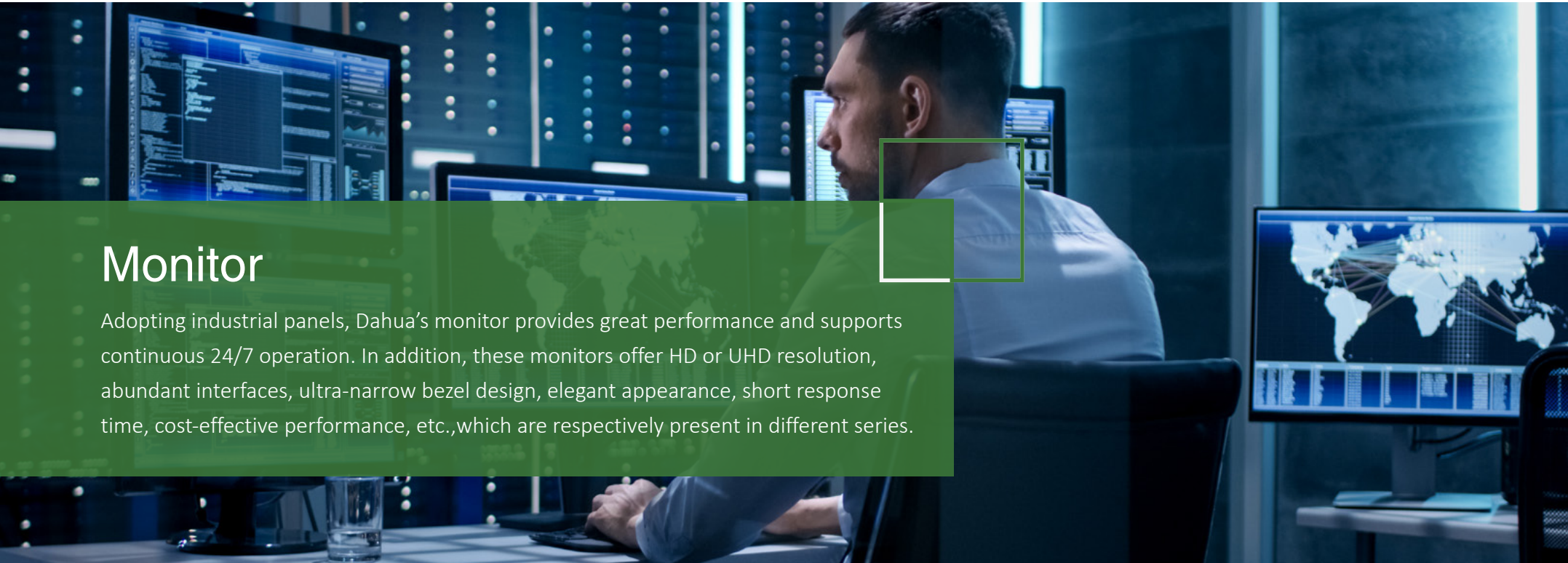
1HDD

Model	XVR1B08H-I	XVR1B04H-I	XVR1B16-I	XVR1B08-I	XVR1B04-I
Appearance					
Video Compression	AI Coding/H.265+/H.265/H.264+/H.264	AI Coding/H.265+/H.265/H.264+/H.264	AI Coding/H.265+/H.265/H.264+/H.264	AI Coding/H.265+/H.265/H.264+/H.264	AI Coding/H.265+/H.265/H.264+/H.264
Audio Compression	G.711/PCM	G.711/PCM	G.711/PCM	G.711/PCM	G.711/PCM
Video Standard	HDCVI/AHD/CVBS/TVI(Auto-detect)	HDCVI/AHD/CVBS/TVI(Auto-detect)	HDCVI/AHD/CVBS/TVI(Auto-detect)	HDCVI/AHD/CVBS/TVI(Auto-detect)	HDCVI/AHD/CVBS/TVI(Auto-detect)
Max. Recording Resolution	CH01-08: 5M-N/4M-N/1080P	CH01-04: 5M-N/4M-N/1080P	CH01-16: 1080N/720P	CH01-08: 1080N/720P	CH01-04: 1080N/720P
Max. HDCVI Recording Rate	10fps@5M-N 15fps@4M-N 15fps@1080P 30fps@720P	10fps@5M-N 15fps@4M-N 15fps@1080P 30fps@720P	15fps@1080N 15fps@720P	15fps@1080N 15fps@720P	30fps@1080N 30fps@720P
CVBS Input	8CH,1.0Vp-p,75Ω	4CH,1.0Vp-p,75Ω	16CH,1.0Vp-p,75Ω	8CH,1.0Vp-p,75Ω	4CH,1.0Vp-p,75Ω
IP Camera Input	8+4 Up to 6MP	4+2 Up to 6MP	16+2 Up to 6MP	8+2 Up to 6MP	4+1 Up to 2MP
Max IP Input/Record	64Mbps/64Mbps	32Mbps/32Mbps	64Mbps/64Mbps	40Mbps/40Mbps	20Mbps/20Mbps
Audio In/out	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way
Max HDD	1×6TB	1×6TB	1×6TB	1×6TB	1×6TB
Display	HDMI/VGA(1920x1080)	HDMI/VGA(1920x1080)	HDMI/VGA(1920x1080)	HDMI/VGA(1920x1080)	HDMI/VGA(1920x1080)
eSATA	--	--	--	--	--
USB	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0
DVD Burner	USB	USB	USB	USB	USB
Alarm In/Out	--	--	--	--	--
Ethernet	1x100M port	1x100M port	1x100M port	1x100M port	1x100M port
Remote User Login	128	128	128	128	128
Dimensions	198 mm × 203 mm × 41mm (7.8" × 8.0" × 1.6")	198 mm × 203 mm × 41mm (7.8" × 8.0" × 1.6")	260mm×236mm×48mm (10.2"×9.3"×1.9")	198 mm × 203 mm × 41mm (7.8" × 8.0" × 1.6")	198 mm × 203 mm × 41mm (7.8" × 8.0" × 1.6")
Power	DC12V/1.5A, ≤7W(Without HDD)	DC12V/1.5A, ≤4W(Without HDD)	DC12V/2A, ≤10W(Without HDD)	DC12V/1.5A, ≤7W(Without HDD)	DC12V/1.5A, ≤10W(Without HDD)
Perimeter Protection	--	--	--	--	--
Face Recognition	--	--	--	--	--
SMD Plus	Up to 8 channels	Up to 4 channels	Up to 8 channels	Up to 4 channels	Up to 4 channels

HDCVI RECORDERS

# DISPLAY & CONTROL





# Monitor

Adopting industrial panels, Dahua's monitor provides great performance and supports continuous 24/7 operation. In addition, these monitors offer HD or UHD resolution, abundant interfaces, ultra-narrow bezel design, elegant appearance, short response time, cost-effective performance, etc., which are respectively present in different series.



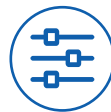
## 4K UHD Display

Support 3840x2160 UHD display and 1.07G display color, to present a realistic and vivid image.



## Economical Display

The Light series models adopts light and plastic housing, which makes it lightweight and cost-effective.



## Multiple Interfaces

4K metal monitor supports multiple signals input, such as HDMI, DP, VGA, USB multimedia, Audio, RS232. Thereby adapting to more scenarios.








## Industrial Design

The monitor adopts industrial panel which supports 7\*24 continuous operation, making it more suitable for security applications.

# DISPLAY & CONTROL

## Monitors

Model	LM43-F200	LM32-F200	LM22-F200	LM43-S400	LM28-F410
Appearance					
Screen Size	42.5" (16:9)	31.5" (16:9)	21.45"(16:9)	43"(16:9)	28"(16:9)
Resolution	1920x1080	1920x1080	1920x1080	3840x2160	3840x2160
Brightness	330 cd/m <sup>2</sup>	240 cd/m <sup>2</sup>	250cd/m <sup>2</sup>	450cd/m <sup>2</sup>	300cd/m <sup>2</sup>
Contrast Ratio	1200:1	1400:1	3000:1	1000:1	1000:1
Viewing Angle	H 178°, V 178°	H 178°, V 178°	H 178°, V 178°	H 178°, V 178°	H 178°, V 178°
Response Time	8ms	8ms	6.5ms	8ms	5ms
Display Color	8bit	8bit	8bit	10bit	10bit
Input	1 VGA, 1 HDMI, 1 USB	1 VGA, 1 HDMI, 1 USB	VGAx1, HDMIx1	1 DP, 2 HDMI, 1 VGA, 1 USB, 1 Audio, 1 RJ45(RS232)	DP 1.2 x1, HDMI 2.0 x2,
Output	2 Speaks	2 Speaks	Earphone(Audio Out) x1	1 RJ45 (RS232), 2 Speakers	USB x1 (for charging)
Control	Physical Button Remote Cotrol	Physical Button Remote Cotrol	Physical Button	RS232, Infrared Remote	Physical Button
Working Temperature	0°C~+40°C(+32°F~+104°F)	0°C~+40°C(+32°F~+104°F)	0°C~+40°C(+32°F~+104°F)	0°C~+40°C(+32°F~+104°F)	0°C~+40°C(+32°F~+104°F)
Working Humidity	20%~85%	20%~85%	10~85%	10%~85%	10~85%
Power & Consumption	AC100~240V, 75W	AC100~240V, 55W	19Vdc,1.31A	AC110~240V, 70W	AC 100-240V,40W
Bezel Width	12.8mm (U/R/L), 22mm (B)	13.9mm (U/R/L), 20.5mm (B)	100x100mm	8mm (U/L/R/B)	75x75mm
VESA	400x200mm	75x75mm	4.65mm (U/R/L), 16.8mm (B)	400x400mm	3.675mm(U/R/L),16.41mm(B)
Dimensions	969.1x566.8x82.4mm (38.2"x22.3"x3.2")	731.4x432.6x67.5mm (28.8"x17"x2.7")	492.2x284.9x37.6mm (19.4"x11.2"x1.5")	960.7x550.7x65.0mm (37.8"x21.7"x2.6")	637.88x368.53x57.36mm (25.1"x25.1"x2.26")
Weight	7.4kg (16.3lb)	3.9kg (8.6lb)	2.24kg (4.94lb)	16.6kg (36.6lb)	7kg (15.43lb)



# LCD Video Wall




Provides excellent visual experience with a variety of options for panel size, bezel width, resolution and brightness.

- 24/7
- 3.5mm narrow bezel
- Abundant interfaces with daisy chain function
- Fast response time and no image ghosting
- Fast stacking installation



# DISPLAY & CONTROL

## LCD Video Wall

Model	LS550UCM-EF	LS490UCM-EF	LS460UCM-EF
Appearance			
Screen Size	55"(16:9)	49"(16:9)	46"(16:9)
LCD Technology	ADS	ADS	ADS
Resolution	1920x1080	1920x1080	1920x1080
Backlight	Direct LED	Direct LED	Direct LED
Bezel Width	2.3mm(U/L), 1.2mm(R/B)	2.3mm(U/L), 1.2mm(R/B)	2.3mm(U/L), 1.2mm(R/B)
Pixel Density	40dpi	46dpi	48dpi
Brightness	500cd/m <sup>2</sup>	500cd/m <sup>2</sup>	500cd/m <sup>2</sup>
Contrast Ratio	1400:1	1400:1	1200:1
Viewing Angle	H 178°, V 178°	H 178°, V 178°	H 178°, V 178°
Response Time	8ms	8ms	8ms
Display Color	8bit	8bit	8bit
Color Temperature	10,000K	10,000K	10,000K
MTBF	50,000h	50,000h	50,000h
Input	1 CVBS, 1 VGA, 1 DVI-D, 1 HDMI, 1 RS232, 2 USB, 1 Audio in, 1 IR	1 CVBS, 1 VGA, 1 DVI-D, 1 HDMI, 1 RS232, 2 USB, 1 Audio in, 1 IR	1 CVBS, 1 VGA, 1 DVI-D, 1 HDMI, 1 RS232, 2 USB, 1 Audio in, 1 IR
Output	1 CVBS, 1 RS232, 2 HDMI, 1 VGA, 1 Audio out	1 CVBS, 1 RS232, 2 HDMI, 1 VGA, 1 Audio out	1 CVBS, 1 RS232, 2 HDMI, 1 VGA, 1 Audio out
Control	RS232, Infrared Remote	RS232, Infrared Remote	RS232, Infrared Remote
Working Temperature	0°C~+50°C (+32°F~+122°F)	0°C~+50°C (+32°F~+122°F)	0°C~+50°C (+32°F~+122°F)
Working Humidity	10%~80%	10%~80%	10%~80%
Power & Consumption	AC100~240V, 150W	AC100~240V, 120W	AC100~240V, 110W
Dimensions	1213.7mm×684.5mm×106.5mm (47.8"×26.9"×4.2")	1078.4mm×608.4mm×106.6mm (42.5"×24.0"×4.2")	1022.0mm×576.6mm×107.3mm (40.2"×22.7"×4.2")
Installation	Floor-standing, Wall-mounted(Optional)	Floor-standing, Wall-mounted(Optional)	Floor-standing, Wall-mounted(Optional)

## Decoder

Supports 4K/8K signal decoding and 4K output to ensure an ultra-high definition viewing experience using monitors or video walls.

- Local signal collection
- Flexible image display
- Powerful collection and decoding capability
- Excellent compatibility with devices from top brands



## Decoder

Model	NVD0905DH-4I-4K	NVD0405DH-2I-4K	NVD0105DH-4K
Appearance			
Screen Quantity	9 Screens	4 Screens	1 Screen
Splicing Control Modes	Zoom/Merge/Roam/Overlay	Zoom/Merge/Roam/Overlay	Zoom/Roam/Overlay
Split Mode	1/4/9/16	1/4/9/16/25/36	1/4/9/16/25/36/64
Max Decoding	3CH@32MP/9CH@12MP (25fps)/12CH@4K/48CH@1080P/108CH@720P/192CH@D1	2CH@8K/8CH@4K/36CH@1080P 80CH@720P/144CH@D1	1CH@32MP/3CH@12MP (25fps)/4CH@4K/16CH@1080P/36CH@720P/64CH@D1
Local Video Input	2CH HDMI, 2CH DVI-I	2CH HDMI	--
Network Video Input	IPC/DVR/NVR, etc.	IPC/DVR/NVR, etc.	IPC/DVR/NVR, etc.
Video Output	HDMI(DVI with convertor)	HDMI/BNC	HDMI/VGA
Audio Out	HDMI	4HDMI, 2 BNC (Vp-p 1V, 75Ω)	HDMI
Alarm In/Out	4/4, (30VDC 1A, 125VAC 0.5A, Relay output)	8/8, (30VDC 1A, 125VAC 0.5A, Relay output)	4/4, (30VDC 1A, 125VAC 0.5A, Relay output)
Intercom	1 Pair 3.5mm Jack	1 Pair 3.5mm jack	1 Pair RCA
Processor	Intel x86 processor	Quad-core embedded processor	Intel x86 processor
Case	1.5U 19"	1U 19"	1U 19"
Ethernet	2 RJ-45 port, (10/100/1000M)	1 RJ-45 port, (10/100/1000M)	1 RJ-45 port,(10/100/1000M)
USB	1 USB2.0, 1 USB3.0	2 USB2.0	2 USB2.0
Power	AC100~240V, 50Hz~60Hz	DC12V/5A	DC12V/3.3A
Control Modes	WEB/Video Platform/ Network keyboard/iPad	WEB/Local GUI/Video Platform/ Network keyboard/iPad	WEB/Local GUI/Video Platform/ Network keyboard/iPad
Highlights	8K & H.265 & H.265+ decoding, Fisheye dewarp, PC signal collection	8K & H.265 & H.265+ decoding, Fisheye dewarp, PC signal collection	8K & H.265 & H.265+ decoding, Fisheye dewarp, Supports the display of intelligent regular line

# Keyboard


A network keyboard is a control device with joystick that can realize convenient PTZ operation, video wall control, etc.

- Powerful control capability
- Easy connection
- Flexible joystick
- Multiple combination key



# DISPLAY & CONTROL

## Keyboard

Model	NKB1000
Appearance	
Control Mode(s)	Direct mode, Network mode, USB mode
Control Interface	1 RJ-45 port (10/100/1000M), RS232, RS485, RS422, USB
DVR/NVR Protocol	DH2
Dome Protocol	DH-SD1/PELCO-D/PELCO-P, etc.
Max. Users	64 (including "admin")
Screen	Monochrome LCD screen (128×64)
Local Split Display Mode	--
Video Output	--
Local Decoding	--
Intercom	--
Joystick	3-axis (zoom, focus, iris)
Main Processor	Industrial embedded microprocessor
Operating System	Embedded LINUX
USB	1 USB2.0
Power	DC12V/2A
Highlights	Multi-user access control; Controls DVR, NVR, EVS, Decoder, Matrix; Works with SmartPSS or DSSClient via USB port

# ACCESSORIES



# Accessories

Accessory products offer a series of supporting equipment for CCTV monitoring devices promoted by Dahua, which enhance product integrity and user experience, and supplement the insufficiencies of traditional products and solutions.



## Camera Mount

Provides a series of solutions for the installation of cameras.



## Power Supply

Provides different power supply type for devices with different specifications.



## Audio

Collects live sound signals for the camera.



## Cabling

Provides different cable products to meet the transmission requirements of different equipment.

# ACCESSORIES

HFxxE, HFxxG Series		
		
Model	PFB110W	PFB121W
Mount	Wall/ceiling/plane mount	Wall mount

HFWxxR-Z, HFWxxT, HFWxxD, HFWxxTH, B4Axx-VF, B3Axx-Z, HFWxxTM, MExxTH Series		
		
Model	PFA130-E	PFA130-E+PFA152-E
Mount	Junction box	Pole mount







HFWxxE, HFWxxE-Z Series		
		
Model	PFA121	PFA121+PFA152-E
Mount	Junction box	Pole mount

HFWxxS/SL, HFWxxR, HFWxxT, HFWxxTL, B1Axx, B2Axx, LCxxT, LCxxSL, MExxB/C/D, HFWxxC, HFWxxTLM, HFWxxCM Series		
		
Model	PFA134	PFA134+PFA152-E
Mount	Junction box	Pole mount

PFW3601-A180		
		
Model	PFA124-B	PFA124-B+PFA150
Mount	Junction box	Pole mount

HDBWxxE(A) Series				
				
Model	PFA136	PFB203W	PFB203W+PFA152-E	PFA136+PFA200W
Mount	Junction box	Wall mount	Pole mount	Rain shade

# ACCESSORIES

HDBWxxE-Z Series					
					
Model	PFA138	PFB210W	PFB210W+PFA152-E	PFA101+PFB300C	PFB201C
Mount	Junction box	Wall mount	Pole mount	Ceiling mount	In-ceiling mount


HDBWxxR, D3Axx-VF, D3Axx-Z, HDBWxxR-Z Series					
					
Model	PFA137	PFB203W	PFB203W+PFA152-E	PFA106+PFB220C	PFA137+PFA200W
Mount	Junction box	Wall mount	Pole mount	Ceiling mount(extensible)	Rain shade



EW Series			
			
Model	PFB203W	PFB110W	PFB203W+PFA152-E
Mount	Wall mount	Ceiling mount	Pole mount

HDWxxT-Z Series			
			
Model	PFA130-E	PFB203W	PFB203W+PFB152-E
Mount	Junction box	Wall mount	Pole mount

# ACCESSORIES

HDWxxR, T1Axx Series				
				
<b>Model</b>	PFA12A(plastic)	PFA135	PFB205W	PFB205W+PFA152-E
<b>Mount</b>	Junction box		Wall mount	Pole mount

HDWxxSL, HDWxxTL, D1Axx, HDWxxTQ, HDWxxTLMQ, HDWxxxxTRQ, MExxE/EQ/H/TQ Series				
				
<b>Model</b>	PFA13G	PFB205W	PFA205W+PFA152-E	
<b>Mount</b>	Junction box	Wall mount	Pole mount	

EBW3802		
		
<b>Model</b>	PFA132-E	PFA132-E+PFA152-E
<b>Mount</b>	Junction box	Pole mount

HDWxxM, T2Axx Series				
				
<b>Model</b>	PFA13A-E	PFB205W	PFB205W+PFA152-E	
<b>Mount</b>	Junction box	Wall mount	Pole mount	

HDBWxxF Series				
				
<b>Model</b>	PFA139	PFB204W	PFB204W+PFA152-E	
<b>Mount</b>	Junction box	Wall mount	Pole mount	

HDWxxEM, HDWxxT Series				
				
<b>Model</b>	PFA130-E	PFB204W	PFB204W+PFA152-E	
<b>Mount</b>	Junction box	Wall mount	Pole mount	

T3Axx Series				
				
<b>Model</b>	PFA137	PFB205W	PFA205W+PFA152-E	
<b>Mount</b>	Junction box	Wall mount	Pole mount	



# ACCESSORIES

SD22 Series					HDWxxTMQ Series			
								
Model	PFA137	PFB203W	PFB203W+PFA152-E	PFB200C	Model	PFA13F	PFB211W	PFB211W+PFA152-E
Mount	Junction box	Wall mount	Pole mount	In-ceiling mount	Mount	Junction box	Wall mount	Pole mount

SD42 Series								
								
Model	PFA102+PFB302S		PFA102+PFB302S+PFA150		PFA102+PFB302S+PFA151		PFA102+PFB300C	
Mount	Wall mount		Pole mount		Corner mount		Ceiling mount	

SD59/50/40 Series							
							
Model	PFA110+PFB300S	PFA110+PFB300S+PFA120	PFA110+PFB300C	PFA150	PFA151	PFA140	PFA110+PFB303S
Mount	Wall mount	Junction box	Ceiling mount	Pole mount	Corner mount	Power box	Parapet mount

SD49 Series								
								
Model	PFB305W	PFB310W	PFB305W+PFA120	PFA111+PFB300C	PFA150	PFA151	PFA140	PFA111+PFB303S
Mount	Wall mount		Junction box	Ceiling mount	Pole mount	Corner Mount	Power box	Parapet mount

## Housings

Provide a multi-functional shield for the box camera.

- Aesthetic design
- All weather protection, suitable for different scenes
- IP66/67, IK10 ingress protection
- Supports remote RS485 control of IR lights and wiper function



### Housings

Model	PFH610N-IR-W	PFH610V
Appearance		
Inside Dimension	255mmx90mmx70.5mm (10.04"x3.54"x2.78") 215mmx90mmx83mm (8.46"x3.54"x3.27")	255x90x83mm (10.04"x3.54"x3.27")
Window Dimension	φ60mm (φ2.36")	φ60mm (φ2.36")
Wiper	Supported	--
Vandal-proof	--	Supported
Anti-corrosion	--	--
Compatibility	HFxxE, HFxxF	HFxxE, HFxxF
IR Distance	0~100m (0~328.08ft)	--
RS485 Control	Use RS485 to control IR light & wiper	--
Power Supply	AC24V/5A	DC12V, AC24V
Power Consumption	Max. 70W	--
Operating Temperature	Set: -40°C~+60°C (-40°F~+140°F) Heater: ON: 5±5 °C/OFF: 15±5 °C Cooler: ON: 37±5°C/OFF: 20±5°C ON: 5±5 °C/OFF: 15±5°C	Set: -30°C~+60°C (-22°F~+140°F) Heater: N/A Cooler: N/A
Ingress Protection	IP66	IP67
Vandal Resistance	--	IK10
Material	Aluminum (case) & PC (others)	Aluminum (case) & PC (others)
Dimension (LxWxH)	404mmx164mmx175mm (15.91"x6.46"x6.89")	404mmx164mmx132mm (15.91"x6.46"x5.2")
Certification	CE, FCC, ICES	CE, FCC, ICES

# ACCESSORIES

## Housings

Model	PFH610V-H	PFH610V-IR	PFH610A	PFH610A-H	PFH610A-IR
Appearance					
Inside Dimension	255x90x70.5mm (10.04"x3.54"x2.78") 215x90x83mm (8.46"x3.54"x3.27")	255x90x70.5mm (10.04"x3.54"x2.78") 215x90x83mm (8.46"x3.54"x3.27")	255x90x83mm (10.04"x3.54"x3.27")	255x90x70.5mm (10.04"x3.54"x2.78") 215x90x83mm (8.46"x3.54"x3.27")	255x90x70.5mm (10.04"x3.54"x2.78") 215x90x83mm (8.46"x3.54"x3.27")
Window Dimension	φ60mm (φ2.36")	φ60mm (φ2.36")	φ60mm (φ2.36")	φ60mm (φ2.36")	φ60mm (φ2.36")
Wiper	--	--	--	--	--
Vandal-proof	Supported	Supported	--	--	--
Anti-corrosion	--	--	Supported	Supported	Supported
Compatibility	HFxxE, HFxxF	HFxxE, HFxxF	HFxxE, HFxxF	HFxxE, HFxxF	HFxxE, HFxxF
IR Distance	--	0~100m (0~328.08ft)	--	--	0~100m(0~328.08ft)
RS485 Control	--	Use RS484 to control IR light	--	--	--
Power Supply	AC24V/3A	AC24V/5A	DC12V, AC24V	AC24V/3A	AC24V/5A,
Power Consumption	30W	55W	N/A	30W	55W
Operating Temperature	Set: -40°C ~+60°C (-40°F~+140°F)  Heater: ON: 5±5 °C /OFF: 15±5 °C  Cooler: ON: 37±5 °C /OFF: 20±5 °C ON: 5±5 °C /OFF: 15±5 °C	Set: -40°C ~+60°C (-40°F~+140°F)  Heater: ON: 5±5°C /OFF: 15±5°C  Cooler: ON: 37±5°C /OFF: 20±5°C ON: 5±5°C /OFF: 15±5°C	Set: -30°C ~+60°C (-22°F~+140°F)  Heater: ON: N/A  Cooler: ON: N/A	Set: -40°C ~+60°C (-40°F~+140°F)  Heater: ON: ON: 5±5°C /OFF: 15±5°C  Cooler: ON: 37±5°C /OFF: 20±5°C ON: 5±5°C /OFF: 15±5°C	Set: -40°C ~+60°C (-40°F~+140°F)  Heater: ON: 5±5°C /OFF: 15±5°C  Cooler: ON: 37±5°C /OFF: 20±5°C ON: 5±5°C /OFF: 15±5°C
Ingress Protection	IP67	IP67	IP67	IP67	IP67
Vandal Resistance	IK10	IK10	IK10	IK10	IK10
Material	Aluminum (case) & PC (others)	Aluminum (case) & PC (others)	Aluminum (case) & PC (others)	Aluminum (case) & PC (others)	Aluminum (case) & PC (others)
Dimension (LxWxH)	404mmx164mmx132mm (15.91"x6.46"x5.2")	404mmx164mmx132mm (15.91"x6.46"x5.2")	404mmx164mmx132mm (15.91"x6.46"x5.2")	404mmx164mmx132mm (15.91"x6.46"x5.2")	404mmx164mmx132mm (15.91"x6.46"x5.2")
Certification	CE, FCC, UL, EAC, ICES	CE, FCC, UL, EAC, ICES	CE, FCC, ICES	CE, FCC, UL, EAC, ICES	CE, FCC, UL, EAC, ICEzS

# Power Supply

Safe and reliable power supply accessories for our products.

- DC power adapter: Wide temperature operation from -30°C~+70°C and lightning protection up to 4KV
- Distributed power: Offers wall mount installation, providing convenient power supply to different devices
- Switch power: High quality, reliable, widely used, and flexible
- UPS: Temporary power discharge equipment between utility and equipment



# ACCESSORIES

## DC Power Adapter

Model	PFM321D-EN/BS/US	PFM320D-EN/BS/US	PFM321-EN/BS/US	PFM320D-015	PFM300
Appearance					
Input	100~240V, 50/60Hz, 0.5A	100~240V, 50/60Hz, 0.6A	90~264V	AC100~240V, 50/60Hz, 0.6A	AC180~264V, 50/60Hz, 0.6A
Output	12V(+7%, -3%), 1A	12V(+7%, -3%), 2A	12V(+7%, -3%), 1A	DC12V (+7%, -3%), 1.5A	DC12V (±5%), 2A
Working Temperature	-30°C~+70°C (-22°F~+158°F)	-30°C~+70°C (-22°F~+158°F)	-10°C~+55°C (+14°F~+131°F)	-30°C~+70°C (-22°F~+158°F)	-30°C~+70°C (-22°F~+158°F)
Surge Protection	Common Mode ±4KV (12 ohms) Differential Mode ±2kV (2 ohms)	Common Mode ±4KV (12 ohms) Differential Mode ±2kV (2 ohms)	Common Mode ±4KV (12 ohms) Differential Mode ±2kV (2 ohms)	Common Mode ±4KV (12 ohms) Differential Mode ±2kV (2 ohms)	Common Mode ±4KV (12 ohms) Differential Mode ±2kV (2 ohms)

## Distributed Power Box

Model	PFM340-5CH	PFM341-9CH	PFM342-9CH	PFM343-19CH
Appearance				
Input	AC90~264V	AC90~264V	AC90~264V	AC90~264V
Output	5 x 12VDC (-3%~+7%), 4A	9 x 12VDC (-3%~+7%), 5A	9 x 12VDC (-3%~+7%), 10A	19 x 12VDC (-3%~+7%), 20A
Working Temperature	-20°C~+45°C (-4°F~+113°F)	-20°C~+45°C (-4°F~+113°F)	-20°C~+45°C (-4°F~+113°F)	-20°C~+45°C (-4°F~+113°F)
Surge Protection	Line to ground: 4000V Line to line: 2000V	Line to ground: 4000V Line to line: 2000V	Line to ground: 4000V Line to line: 2000V	Line to ground: 4000V Line to line: 2000V

## Switching Power&UPS

Model	PFM320S-150	PFM320S-50	PFM350-360	PFM350-900	PFM351-900
Appearance					
Input	88~132Vac/176~264Vac	90~264Vac	600VA/360W	1500VA/900W	1000VA/900W
Output	12Vdc, 12.5A	12Vdc, 4.2A	220Vac~240Vac (US 110Vac~120Vac)	220Vac~240Vac (US 110Vac~120Vac)	220Vac~240Vac (US 110Vac~120Vac)
Working Temperature	20°C~+50°C (60% output at +70°C)	-20°C ~+50°C (60% output at +70°C)	50Hz or 60Hz	50Hz or 60Hz	40Hz~70Hz
Surge Protection	Line to ground: ±2000V Line to line: ±1000V	Line to ground: ±2000V Line to line: ±1000V	220/230/240 VAC (US 110/120 VAC)	220/230/240 VAC (US 110/120 VAC)	200/208/220/230/240 VAC (US 100/110/115/120/127 VAC)
Output Rated Frequency	--	--	50Hz or 60Hz ±1Hz	50Hz or 60Hz ±1Hz	50Hz or 60Hz
Operating Temperature	--	--	0°C ~ +40°C (+32°F ~ +104°F)	0°C ~ +40°C (+32°F ~ +104°F)	0°C ~ +40°C (+32°F ~ +104°F)

# Lenses

A wide range of multi-functional lenses for box cameras.

- Super edge resolution
- Great highlight performance
- Outstanding starlight technology
- Better temperature performance



# ACCESSORIES

Lens					
Model	PFL2712-E6D	PFL0550-E6D	PLZ20C0-D	PLZ21C0-D	PFL1575-A12D
Appearance					
Image Format	1/2.7"	1/2.7"	1/1.7"	1/1.7"	1/1.7"
Focal Length	2.7-12mm	5-50mm	3.7-16mm	10.5-42mm	15-75mm
Lens Pixel	6MP	6MP	12MP	12MP	12MP
Aperture	F1.6	F1.6	F1.5	F1.5	F1.5
Mount	CS	CS	CS	CS	C
Focus Control	Manual	Manual	Manual	Manual	Manual
Zoom Control	Manual	Manual	Manual	Manual	Manual
Iris Control	DC-iris	DC-iris	DC-iris	DC-iris	DC-iris
IR Correction	Supported(420~850nm)	Supported	Supported	Supported	Supported
M.O.D.	0.3m (0.98ft)	0.5m (1.64ft)	0.5m (1.64ft)	0.3m (0.98ft)	1.5m (4.92ft)
Operating Temperature	-30°C~+70°C (-22°F~+158°F)	-30°C~+70°C (-22°F~+158°F)	-30°C~+70°C (-22°F~+158°F)	-30°C~+70°C (-22°F~+158°F)	-30°C~+70°C (-22°F~+158°F)

Lens					
Model	PLZ20C0-P	PLZ21C0-P	PFL2070-J12M	PFL1040-K9PE	PFL1040-K9M
Appearance					
Image Format	1/1.7"	1/1.7"	4/3"	1"	1"
Focal Length	3.7-16mm	10.5-42mm	20-70mm	10-40mm	10-40mm
Lens Pixel	12MP	12MP	12MP	9MP	9MP
Aperture	F1.5	F1.5	F1.5	F1.5	F1.5
Mount	CS	CS	M43	C	C
Focus Control	Manual	Manual	Manual	Motorized	Manual
Zoom Control	Manual	Manual	Manual	Motorized	Manual
Iris Control	P-iris	P-iris	Manual	P-Iris	Manual
IR Correction	Supported	Supported	--	--	--
M.O.D.	0.5m (1.64ft)	0.3m (0.98ft)	3m (9.84ft)	2.5m (8.2ft)	2.5m (8.2ft)
Operating Temperature	-30°C~+70°C (-22°F~+158°F)	-30°C~+70°C (-22°F~+158°F)	-30°C~+70°C (-22°F~+158°F)	-30°C~+70°C (-22°F~+158°F)	-30°C~+70°C (-22°F~+158°F)

# ACCESSORIES

## Camera Testers

### Camera Testers

It allows easier testing of cameras that only requires a single person to operate, saving significant amount of time and labor costs.

- Camera video tester
- Small tools: DMM/Wifi test/OPM/Data monitor
- Cable tester: TDR/ Analog video generator
- Power supply: PoE+/ DC12V2A/ USB5V2A output



Model	PFM900-E	PFM904	PFM907
Appearance			
Operation System	Linux	Linux	Linux
Language	Multi-language interface	Muti-language interface	Multi-language interface
Operation Mode	Keyboard	Keyboard	Touch screen and keyboard
Screen	4.0" TFT screen, 800 x 480 resolution	4.3" TFT screen, 480 x 272 resolution	7 inch capacitive touch screen display, 1920x1200 resolution
Update	Online and local update	Local update	Online and local update
Analog Video Test	HDCVI: 2MP, 4MP, 5MP, 6MP, 4K HDTV: 2MP, 4MP, 5MP AHD: 2MP, 4MP CVBS: NTSC, PAL	HDCVI: 2MP,4MP,5MP,6MP, 4K HDTV: 2MP,4MP,5MP AHD: 2MP, 4MP CVBS: NTSC, PAL	HDCVI: 1MP, 2MP, 4MP,5MP,6MP,4K HDTV: 1MP, 2MP, 4MP,5MP AHD: 1MP, 2MP, 4MP CVBS: NTSC, PAL
IPC Test	Discovering the device, real-time video, camera configuration,PTZ test, discovering ONFIV device	--	Discovering the device, real-time video, camera configuration,PTZ test, discovering ONFIV device
Camera Power Supply	DC12V/2A output	DC12V/1A output	DC12V/2A output
RS485	Receive and display protocol data with a RS485 cable	Receive and display protocol data with a RS485 cable	Captures and analyzes the command data from controlling device via RS485
PTZ Control Test	OSD menu display and PTZ control	OSD menu display and PTZ control	OSD menu display and PTZ control
Accessibility	Audio Test,TDR Test, Digital Multimeter,POE Test	UTC(SD to HD)	Audio Test,TDR Test, Digital Multimeter,Optical Power Meter, HDMI Output,POE Test,WiFi Test
Charger	PoE 48V/0.32A	Micro USB 5V/1A	DC 12V/1.5A
Working Temperature	-10°C~+55°C (+14°F~+131°F)	-10°C to +55°C (+14°F ~+131°F)	-10°C~+55°C (+14°F~+131°F)

# Pickups

Choose from a variety of pickup products to effectively capture live sounds.

- High sensitivity microphone
- Intelligent noise reduction
- Smart audio crack protection
- Wide dynamic range processing technology
- Automatic supplement function



# ACCESSORIES

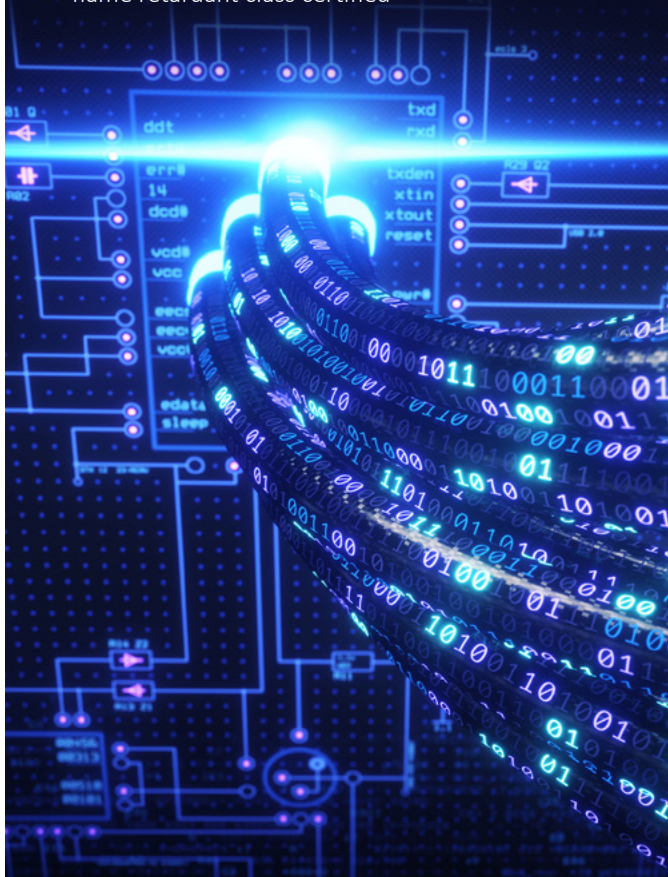
Pickups				
Model	HAP100	HAP201	HAP301	HAP120
Appearance				
Scope	5-40m <sup>2</sup>	1-150m <sup>2</sup>	1-150m <sup>2</sup>	10-70m <sup>2</sup>
Sensitivity	-40dB	-38 dB	-38 dB	-34dB
Frequency Response	20Hz~20kHz	20 Hz~20 kHz	20 Hz~20 kHz	80Hz~16kHz
Directional Characteristic	Omni-directional	Omni-directional	Omni-directional	Omni-directional
SNR	70dB	85 dB	85 dB	58dB
Dynamic Range	104dB	106 dB	106 dB	74dB
Max.Sustainable Sound Pressure	120dB SPL(1kHz, THD 1%)	120 dB SPL (1 kHz,THD 1%)	120 dB SPL (1 kHz,THD 1%)	110dB SPL (1kHz, THD 1%)
Output Impedance	600Ω (non-equilibrium)	25 Ω non-balanced	25 Ω non-balanced	600Ω (non-equilibrium)
Output Signal Amplitude	2.5Vpp/-25dB	2.5 VPP/-25 dB	2.5 VPP/-25 Db	2.5Vpp/88dB SPL
M.O.D.	0.3m (0.98ft)	0.5m (1.64ft)	0.5m (1.64ft)	0.3m (0.98ft)
Working Temperature	-30°C ~ +70°C (-22°F ~ +158°F)	-20 °C ~ +60 °C (-4 °F ~ +140 °F)	-20°C ~ +60°C (-4 °F ~ +140 °F)	-30°C ~ +70°C (-22°F ~ +158°F)

Pickups			
Model	HAP320	HAP120-V	HAP320-V
Appearance			
Scope	10-150m <sup>2</sup>	5m	5-100m <sup>2</sup>
Sensitivity	-35dB	-43dB	-24dB
Frequency Response	20Hz~20kHz	20Hz~20kHz	20Hz~20kHz
Directional Characteristic	Omni-directional	Omni-directional	Omni-directional
SNR	65dB	58dB	68dB
Dynamic Range	86dB	74dB	84dB
Max.Sustainable Sound Pressure	115dB SPL (1kHz, THD 1%)	110dB SPL (1kHz, THD1%)	110dB SPL (1kHz, THD 1%)
Output Impedance	100Ω (non-equilibrium)	100Ω (non-equilibrium)	100Ω (non-equilibrium)
Output Signal Amplitude	2.5Vpp/92dB SPL	2.5Vpp/101dB SPL	2.5Vpp/90dB SPL
M.O.D.	0.3m (0.98ft)	0.5m (1.64ft)	0.5m (1.64ft)
Working Temperature	0°C ~ +50°C (32°F ~ +122°F)	-30°C ~ +70°C (-22°F ~ +158°F)	-30°C ~ +70°C (-22°F ~ +158°F)

## Cables

Network/Coaxial cables with higher quality and higher cost-performance ratio.

- 305m CAT5e/CAT6 network cables and RG59 coaxial cables meet all user requirements
- High-purity and oxygen-free copper conductor material
- Customized PVC sheath, CE CPR Eca or ANSI UL CM flame retardant class certified



### Network Cables

Model	PFM920I-5EUN	PFM920I-6UN-C	PFM922I-6UN-C	PFM923I-6UN-C
Appearance				
Category	CAT5e	CAT6	CAT6	CAT6
Conductor Material	Oxygen free copper (99.97% purity)	Oxygen free copper (99.97% purity)	CCA (Copper content 8%~12%)	Oxygen free copper (99.97% purity)
Conductor Diameter	0.45 mm ± 0.01 mm	0.53 mm ± 0.005 mm	0.57 mm ± 0.01 mm, 23AWG	0.53 mm ± 0.005 mm
Sheath	PVC	PVC	PVC	LSZH
Certification	CPR Eca	CPR Eca	CPR Eca	CPR Eca
Length	305m (1000ft)	305m (1000ft)	305m (1000ft)	305m (1000ft)
Color	White	White, Orange, Blue	Orange	White








### Coaxial Cables

Model	PFM930-59N-100	PFM930-59N-200	PFM940I-59N/2
Appearance			
Category	RG59	RG59	RG59+2C
Conductor Material	OFC	OFC	OFC/OFC(2C)
Conductor Diameter	0.81 mm±0.1 mm (0.03"±0.004")	0.81 mm±0.1 mm (0.03"±0.004")	20AWG (0.8mm)/0.32mm*7(2C)
Sheath	PVC	PVC	PVC/PVC(2C)
Certification	CPR Eca	CPR Eca	CPR Eca
Length	100m (328 ft)	200m (656.17ft)	200m (656.17ft)
Color	Black	Black	Black



# ACCESSORIES

## CCTV Video and Power Cable

Model	PFM942I-20-3	PFM942I-30-3	PFM942I-10-5	PFM942I-20-5	PFM942I-30-5	PFM942I-50-5	PFM942I-20-9
Appearance							
Length	20 m ± 0.3 m (65.62 ft ± 7.87 ft)	30 m ± 0.4 m (98.43 ft ± 1.31 ft)	10 m ± 0.2 m (32.81 ft ± 0.66 ft)	20 m ± 0.3 m (65.62 ft ± 7.87 ft)	30 m ± 0.4 m (98.43 ft ± 1.31 ft)	50 m ± 0.6 m (164.04 ft ± 1.97 ft)	20 m ± 0.3 m (65.62 ft ± 7.87 ft)
Max. Supporting Power	3.3W	3.3W	5.6W	5.6W	5.6W	5.6W	9.0W
Conductor Material	Coaxial cable/Power wire: oxygen-free copper	Coaxial cable/Power wire: oxygen-free copper	Coaxial cable/Power wire: oxygen-free copper	Coaxial cable/Power wire: oxygen-free copper	Coaxial cable/Power wire: oxygen-free copper	Coaxial cable/Power wire: oxygen-free copper	Coaxial cable/Power wire: oxygen-free copper
Conductor Diameter	Coaxial cable/Power wire: 7/0.127 mm ± 0.01 mm (7/0.005" ± 0.0004")	Coaxial cable: 7/0.127 mm ± 0.01 mm (7/0.005" ± 0.0004"); Power wire: 7/0.160 mm ± 0.01 mm (7/0.006" ± 0.0004")	Coaxial cable/Power wire: 7/0.127 mm ± 0.01 mm (7/0.005" ± 0.0004")	Coaxial cable: 7/0.127 mm ± 0.01 mm (7/0.005" ± 0.0004"); Power wire: 7/0.160 mm ± 0.01 mm (7/0.006" ± 0.0004")	Coaxial cable: 7/0.127 mm ± 0.01 mm (7/0.005" ± 0.0004"); Power wire: 7/0.203 mm ± 0.01 mm (7/0.008" ± 0.0004")	Coaxial cable: 7/0.127 mm ± 0.01 mm (7/0.005" ± 0.0004"); Power wire: 7/0.203 mm ± 0.01 mm (7/0.008" ± 0.0004")	Coaxial cable: 7/0.127 mm ± 0.01 mm (7/0.005" ± 0.0004"); Power wire: 7/0.203 mm ± 0.01 mm (7/0.008" ± 0.0004")
Conductor Wire Gauge	Coaxial cable/Power wire: 28AWG	Coaxial cable: 28AWG; Power wire: 26AWG	Coaxial cable/Power wire: 28AWG	Coaxial cable: 28AWG; Power wire: 26AWG	Coaxial cable: 28AWG; Power wire: 24AWG	Coaxial cable: 28AWG; Power wire: 24AWG	Coaxial cable: 28AWG; Power wire: 24AWG
Sheath Material	Coaxial cable/Power wire: PVC	Coaxial cable/Power wire: PVC	Coaxial cable/Power wire: PVC	Coaxial cable/Power wire: PVC	Coaxial cable/Power wire: PVC	Coaxial cable/Power wire: PVC	Coaxial cable/Power wire: PVC
Sheath Diameter	Coaxial cable/Power wire: 2.8 mm ± 0.2 mm (0.11" ± 0.008")	Coaxial cable/Power wire: 2.8 mm ± 0.2 mm (0.11" ± 0.008")	Coaxial cable/Power wire: 2.8 mm ± 0.2 mm (0.11" ± 0.008")	Coaxial cable/Power wire: 2.8 mm ± 0.2 mm (0.11" ± 0.008")	Coaxial cable/Power wire: 2.8 mm ± 0.2 mm (0.11" ± 0.008")	Coaxial cable/Power wire: 2.8 mm ± 0.2 mm (0.11" ± 0.008")	Coaxial cable/Power wire: 2.8 mm ± 0.2 mm (0.11" ± 0.008")
Certification	CPR (Eca)	CPR (Eca)	CPR (Eca)	CPR (Eca)	CPR (Eca)	CPR (Eca)	CPR (Eca)

## Cabinets

Cabinets provide protection and stable working environment for storage devices. It also serves as shield against electromagnetic interference.

- Aesthetic design
- Standard 19" rack
- Supports wall mount and plane mount
- Cable entry on the top cover and bottom panel
- The four sides of the cabinet can be opened



### Cabinets

Model	PFC200D-6U4D	PFC200D-9U4D	PFC200D-12U4D	PFC200D-18U6D
Appearance				
Material	SPCC	SPCC	SPCC	SPCC
Dimension (WxDxH)	600mmx450mmx372mm (23.62"x17.72"x14.57")	600mmx450mmx505mm (23.62"x17.72"x19.88")	600mmx450mmx638mm (23.62"x17.72"x25.12")	600mmx600mmx990mm (23.62"x23.62"x38.98")
Weight	13kg(28.66lb)	15.6kg(34.39lb)	18.1kg(39.9lb)	39.5kg(87.08lb)
Load Bearing	40kg(88.18lb)	40kg(88.18lb)	40kg(88.18lb)	300kg(661.39lb)
Color	Black	Black	Black	Black

### Cabinets

Model	PFC200D-42U8D	PFC610-4D	PFC610-6D	PFC610-8D
Appearance				
Material	SPCC	SPCC	SPCC	SPCC
Dimension (WxDxH)	600mmx800mmx2055mm (23.62"x31.5"x80.91")	489mmx275mmx47.6mm (19.25"x10.83"x1.87")	472mmx350mmx48mm (18.56"x13.78"x1.87")	472mmx550mmx48mm (18.56"x21.65"x1.87")
Weight	89kg (196.21lb)	1.6kg (3.53lb)	1.9kg (4.19lb)	2.8kg (6.17lb)
Load Bearing	300kg (661.39lb)	40kg (88.18lb)	40kg (88.18lb)	40kg (88.18lb)
Color	Black	Black	Black	Black







# HDCVI Accessories

Balun can transmit analog signals through the network cable, which greatly reduces transmission costs. Balun can also realize power supply transmission.

- Real-time transmission over UTP CAT5E/6 cable.
- With female BNC connector, and pluggable screw terminal connections
- Excellent anti-thunder, anti-static and anti-interference capabilities
- Compatible format: HDCVI/TVI/AHD/CVBS

# ACCESSORIES

## Baluns

Model	PFM800-E	PFM800-4K	PFM800B-4K	PFM802	PFM801-4MP	PFM809-4MP
Appearance						
Power Supply	--	--	--	DC12-15V	DC24V/DC36V	--
Transmission Signal	1-CH	1-CH	1-CH	1-CH	1-CH	16-CH
Network cable Type	UTP CAT 5E/6	UTP CAT5E/6	UTP CAT5E/6	UTP CAT5E/6	UTP CAT5E/6	UTP CAT5E/6
Compatible Format	HDCVI/TVI/AHD/CVBS	HDCVI/TVI/AHD/CVBS	HDCVI/TVI/AHD/CVBS	HDCVI/TVI/AHD/CVBS	HDCVI/TVI/AHD/CVBS	HDCVI/TVI/AHD/CVBS
Resolution	720P/1080P	720P/1080P/4MP/5MP/4K	720P/1080P/4MP/5MP/4K	720P/1080P/4MP/4K	720P/1080P/4MP/4K	720P/1080P/4MP/4K
Coaxial Video Connector	BNC-M	BNC-M	BNC-M	BNC-M	BNC-M	BNC-M
Connection Way	RJ45	RJ45	RJ45	RJ45	RJ45	RJ45
ESD Protection	1a contact discharge electricity level 3 1b air discharge electricity level 3 Per: IEC61000-4-2	1a contact discharge electricity level 3 1b air discharge electricity level 3 Per: IEC61000-4-2	1a contact discharge electricity level 3 1b air discharge electricity level 3 Per: IEC61000-4-2	1a contact discharge electricity level 3 1b air discharge electricity level 3 Per: IEC61000-4-2	1a contact discharge electricity level 3 1b air discharge electricity level 3 Per: IEC61000-4-2	1a contact discharge electricity level 3 1b air discharge electricity level 3 Per: IEC61000-4-2
Coaxial Cable Connector Protection	2KV(common-mode) Per: IEC61000-4-5	2KV(common-mode) Per: IEC61000-4-5	2KV(common-mode) Per: IEC61000-4-5	1KV(different-mode), 2KV(common-mode) Per: IEC61000-4-5	2KV(common-mode) Per: IEC61000-4-5	2KV(common-mode) Per: IEC61000-4-5
UTP Cable Connector Protection	2KV(different-mode), 4KV(common-mode) Per: IEC61000-4-5	2KV(different-mode), 4KV(common-mode) Per: IEC61000-4-5	2KV(different-mode), 4KV(common-mode) Per: IEC61000-4-5	1KV(different-mode), 2KV(common-mode) Per: IEC61000-4-5	2KV(different-mode), 4KV(common-mode) Per: IEC61000-4-5	2KV(different-mode), 4KV(common-mode)
Power Connector Protection	--	--	--	18.1kg(39.9lb)	13kg(28.66lb)	Per: IEC61000-4-5
BNC Male Impedance	75 ohms	75 ohms	75 ohms	75 ohms	75 ohms	75 ohms
UTP Cable Impedance	100 ohms	100 ohms	100 ohms	100 ohms	100 ohms	100 ohms
Operating Temperature	-10°C~+55°C (+14°F~+131°F)	-10°C~+55°C (+14°F~+131°F)	-10°C~+55°C (+14°F~+131°F)	-10°C~+55°C (+14°F~+131°F)	-10°C~+55°C (+14°F~+131°F)	-10°C~+55°C (+14°F~+131°F)



## Video Extension

Allows video signal extension and branching.

- Real-time transmission of HDMI signals
- Real-time transmission of VGA signal
- No need to install drivers
- Excellent anti-thunder, anti-static and anti-interference capabilities







### Video Extension

Model	PFM700-E	PFM710
Appearance		
Transmission Signal	1channel HDMI	1channel VGA
Transmission Distance	50m	35m
Video Signal Input Interface	HDMI interface	Female 15, VGA port
Video Input Port	HDMI interface	Female 15, VGA port
Transmission Port	RJ45 port	RJ45 port
Resolution	1080P/1080i/720P/576P/ 576i/480P/480i	640*480/800*600/1600*1050/ 1600*1200/1920*1200/1920*1080
Working Temperature	-10°C~55°C (14°F~131°F)	0°C~+55°C (+32°F~+131°F)

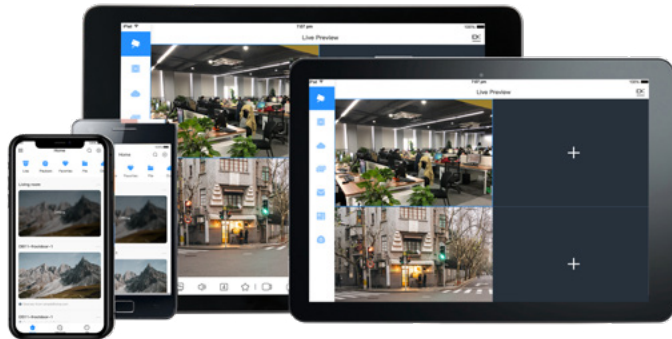
# VIDEO MANAGEMENT SOFTWARE

## DSS Products

	Model	DSS Express	DSS Pro	DSS4004-S2	DSS7016D(R)-S2
Appearance					
Deployment	OS	Windows	Windows	Linux	Linux
	Form	Software	Software	ALL-IN-ONE	ALL-IN-ONE
	Hot standby	--	Supported	Supported	Supported
	Distribute	--	Supported	--	Supported
	N+M	--	Supported	--	Supported
	Cascade As Superior Level	--	Supported	--	--
	Cascade As Subordinate Level	Supported	Supported	Supported	Supported
Performance	Camera	256	1000 IP, 2000 CH	256	500 IP, 1000 CH
	Face Recognition	8	100	32	100
	ANPR	8	64	32	64
	Maximum Video Input Bandwidth Per Server	350Mbps	600Mbps	350Mbps	600Mbps
	Maximum Storage Bandwidth Per Server	150Mbps	600Mbps	150Mbps	600Mbps
Features	Onvif	Supported	Supported	Supported	Supported
	Auto Register	--	Supported	--	Supported
	P2P	Supported	--	--	--
	Microsoft Active Directory	--	Supported	--	Supported
	Disk Group	--	Supported	--	Supported
	ISCSI	Supported	Supported	Supported	Supported
	Records Backup From Device By Time Or Wi-fi	--	Supported	--	Supported
	GIS Map	--	Supported	--	Supported
	Thumbnail Search	--	Supported	--	Supported
	Access Control, Video Intercom, Visitor Management, Entrance	Supported	Supported	Supported	Supported
	Attendance	--	Supported	--	--
	Perimeter Protection	Supported	Supported	Supported	Supported
	Thermal Alarm	Supported	Supported	Supported	Supported
AI	Face Recognition	Supported	Supported	Supported	Supported
	Flow Analysis	Supported	Supported	Supported	Supported
	ANPR	Supported	Supported	Supported	Supported
	Object Detection	--	Supported	--	Supported
Add on	Add-ons	--	Supported	--	--

# VIDEO MANAGEMENT SOFTWARE

DMSS



## Digital Mobile Surveillance System

Monitor anything using your smartphone or tablet anytime, anywhere.



Devices	Supported Devices	DVR, NVR, IPC, VTO, DoorBell, Alarm Hub
	Add Device Method	IP/domain, SN, Import form cloud, Soft AP
	Features	Remote config, Alarm config, HDD info, Share device list
Video	Compression Format	H.265/H.264/MPEG-4/JPEG
	Display Resolution	Up to 1920--1080
Live Preview	Max. Channels Can Be Opened at The Same Time	256
	Features	Snapshot, Record, Instant playback, PTZ, Stream control, Talk, Audio, Alarm, Color, Favorites, Remember channels
Playback	Video Playback Duration	24 hours
	Features	Snapshot, Record, Speed up / slow down, Frame-by-frame, Cut
Alarm Push	Alarm Type	Motion Detectin, Camera Masking, Local Alarm, Disk alarm (no disk, low space, disk error), Face Detection, IVS Alarm, Thermal Imaging Alarm, Defoucs, Audio Detect, HDD Alarm, Sensor Alarm, Network Alarm
	Push Type	Video, Preview

# DORI Distance (D/O/R/I)

## Find the Optimal Camera for Your Individual Surveillance Needs

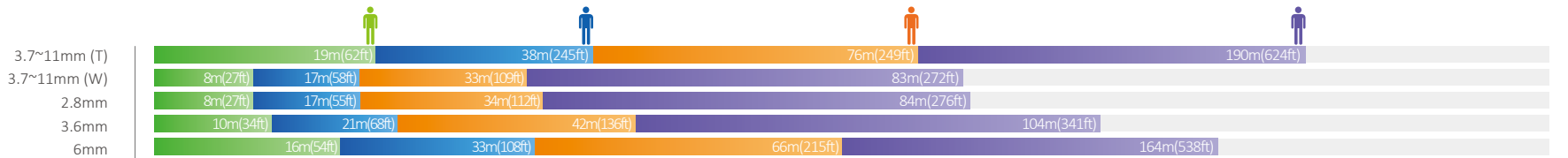
The DORI distance is a “general proximity” of distance that can easily pinpoint the right camera based on your needs and requirements. The DORI distance is calculated based on sensor specification and lab test result according to EN 62676-4 which defines the criteria for Detect, Observe, Recognize and Identify respectively.

- Detect: 25ppm
- Observe: 63ppm
- Recognize: 125ppm
- Identify: 250ppm

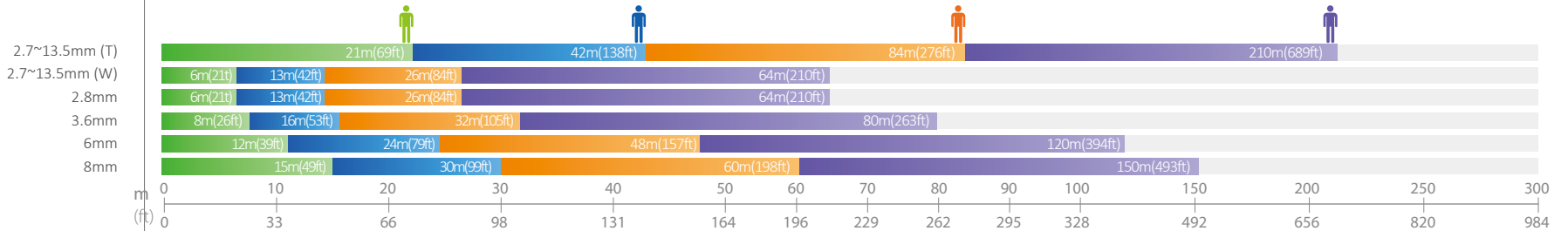
## HDCVI CAMERA

### Pro Series

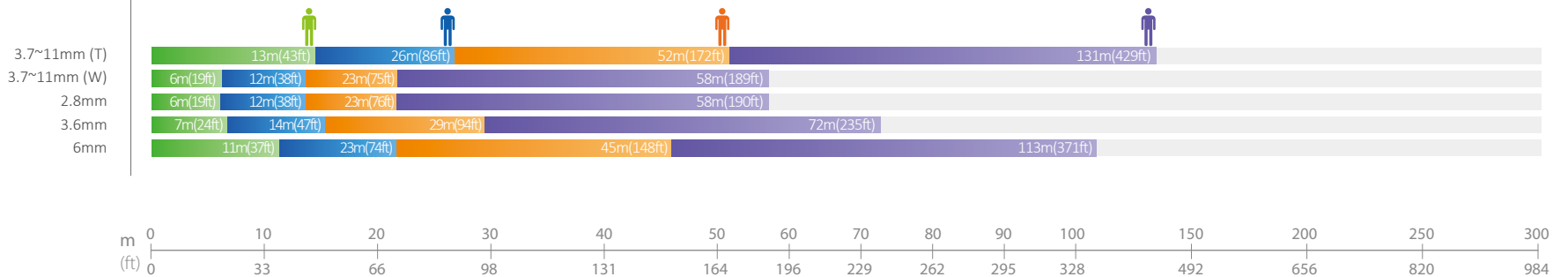
#### 2802 Series



#### 2501 Series

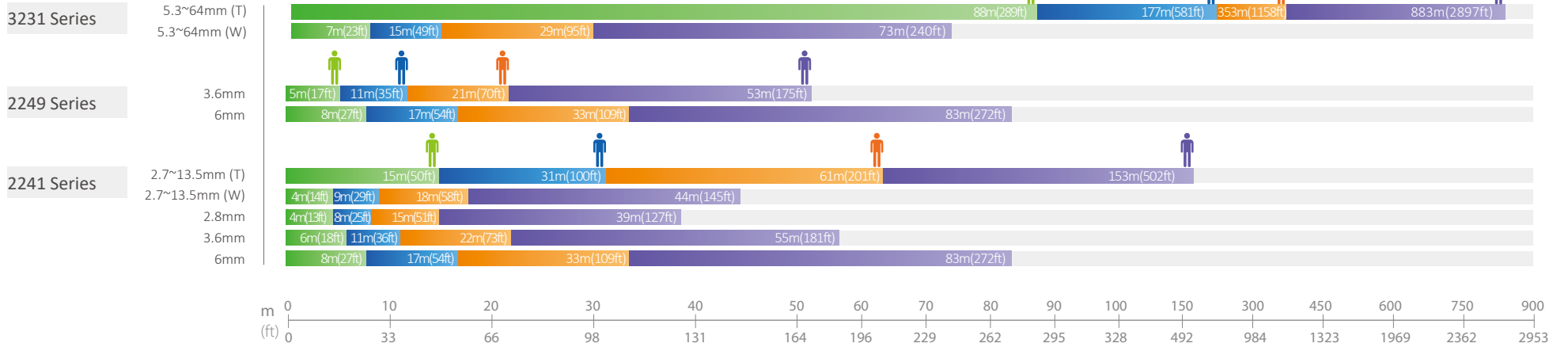


#### 2402 Series

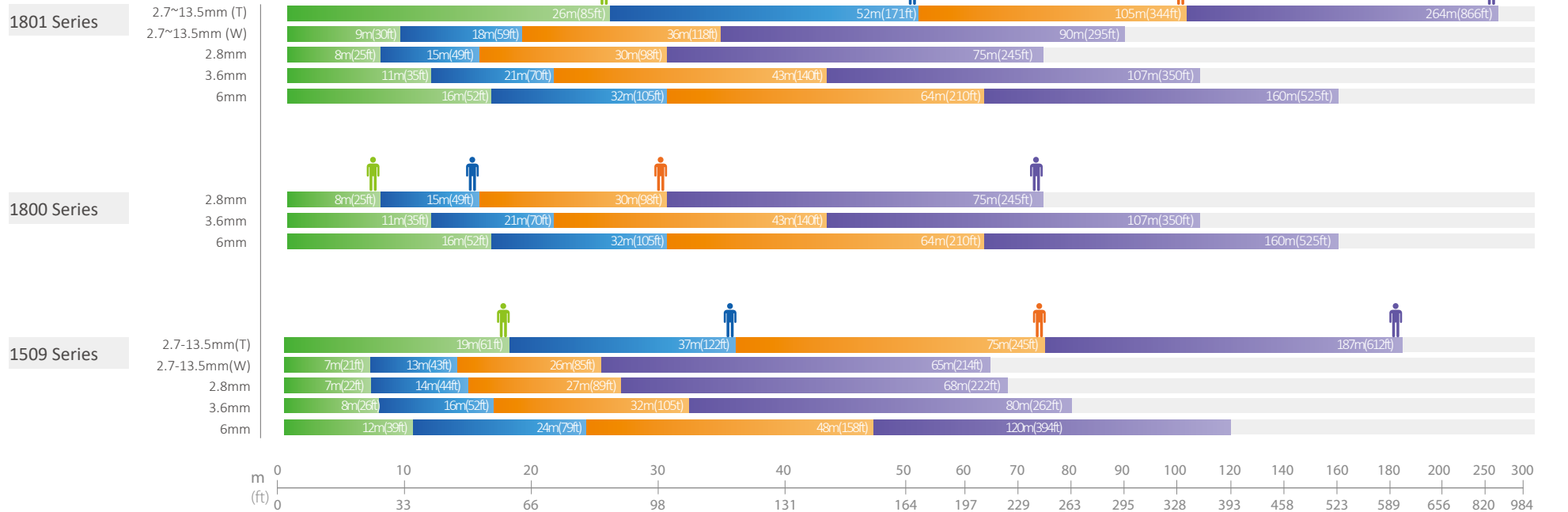


# DORI Distance (D/O/R/I)

## Pro Series



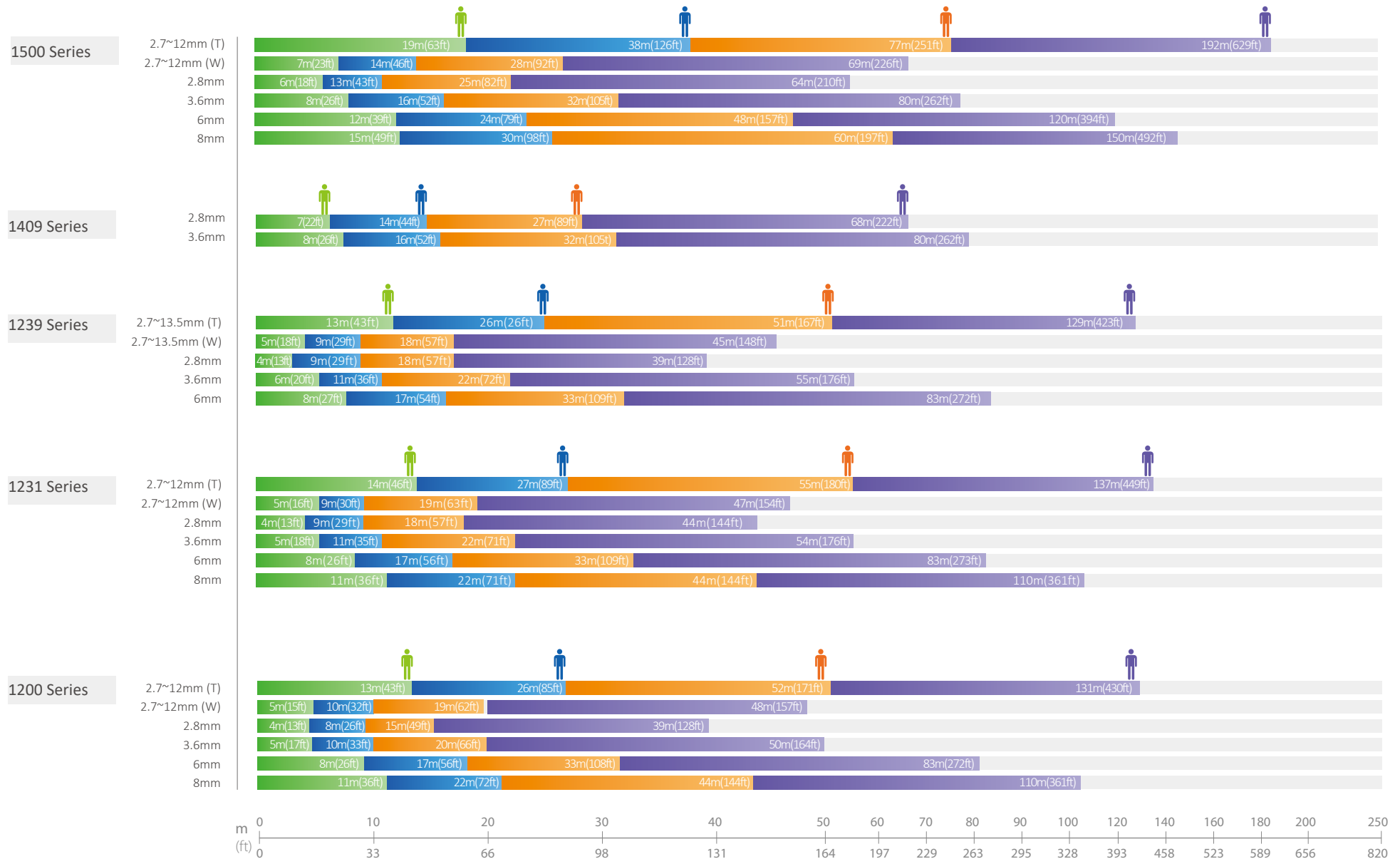
## Lite Series





# DORI Distance (D/O/R/I)

## Lite Series

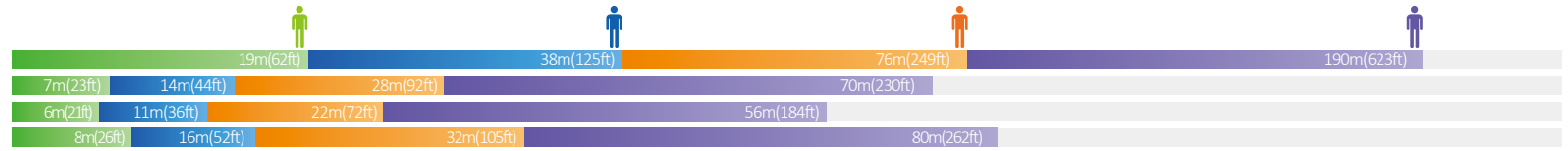


# DORI Distance (D/O/R/I)

## Cooper Series

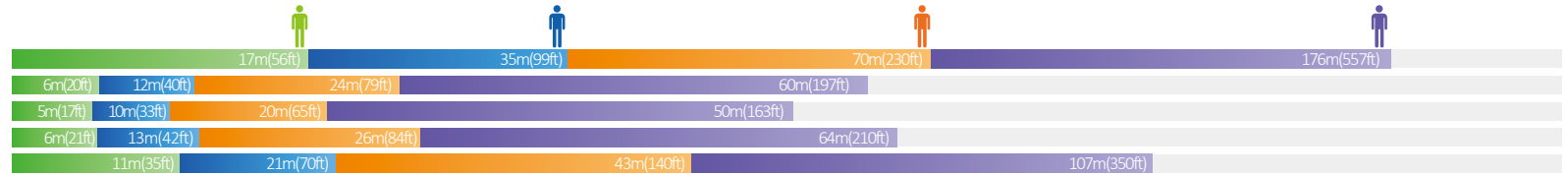
### A51 Series

2.7~12mm(T)  
2.7~12mm (W)  
2.8mm  
3.6mm



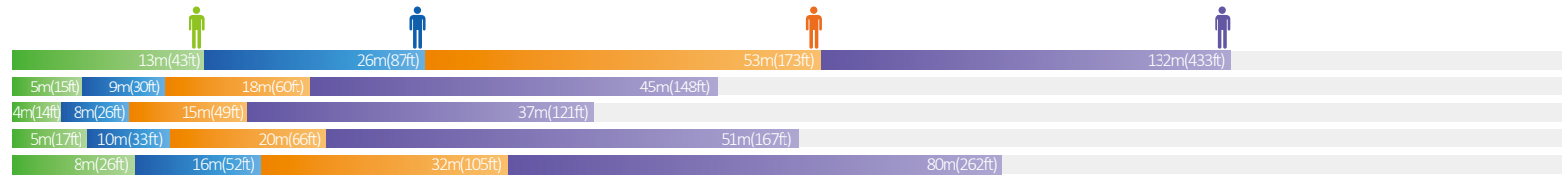
### A41 Series

2.7~12mm(T)  
2.7~12mm (W)  
2.8mm  
3.6mm  
6mm



### A21 Series

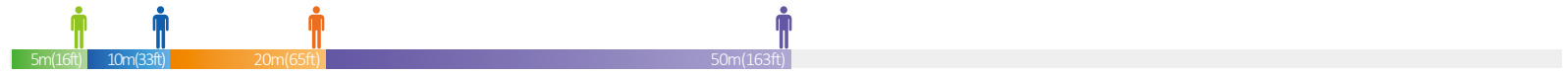
2.7~12mm(T)  
2.7~12mm (W)  
2.8mm  
3.6mm  
6mm



## Panorama Series

### 3601 Series

3.6mm



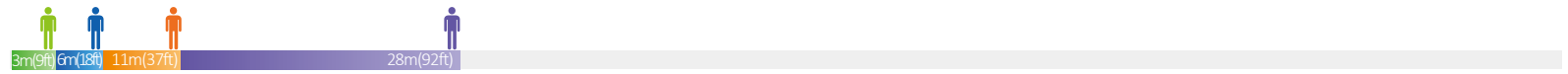
### 3802 Series

2.5mm (Fisheye)



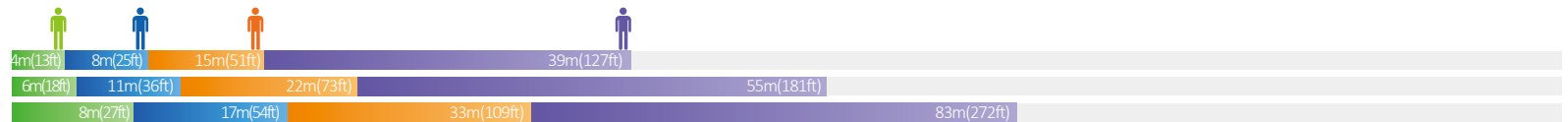
### 2501 Series

1.4mm (Fisheye)



### 2241 Series

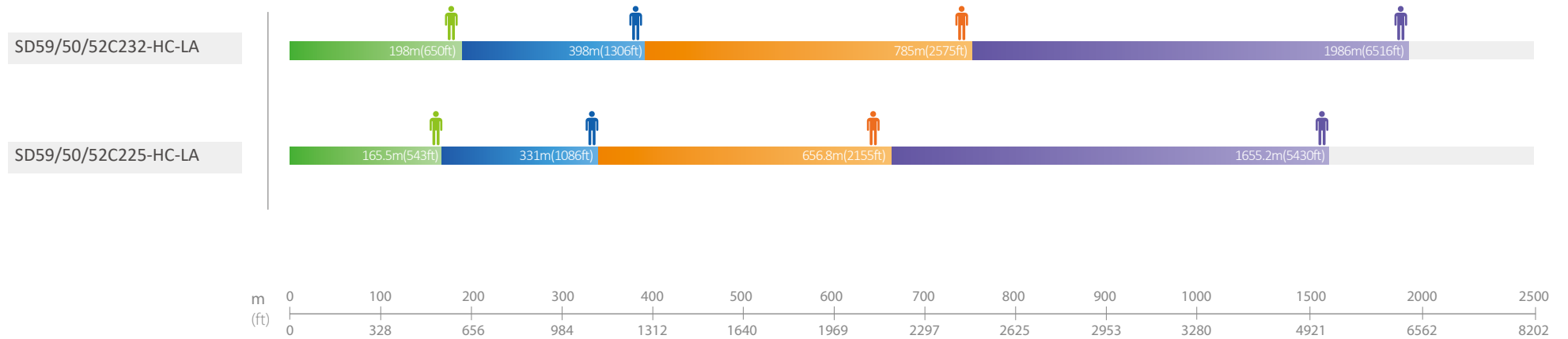
2.8mm  
3.6mm  
6mm



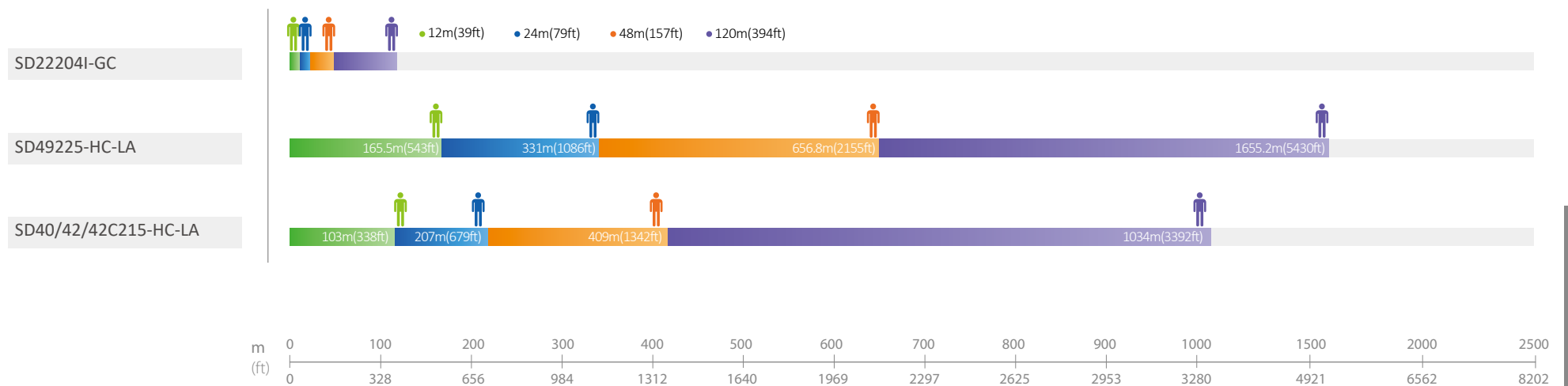
# DORI Distance (D/O/R/I)

## HDCVI PTZ CAMERA

### Pro Series



### Lite Series



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\* Design and specifications are subject to change without notice.

Ver. 2, Jul. 2021

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