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HDCVI PRODUCT SELECTION

HDCVI Camera / PTZ / Recorder / Accessories / Video Management Software / DORI Distance

2017 Ver. 1



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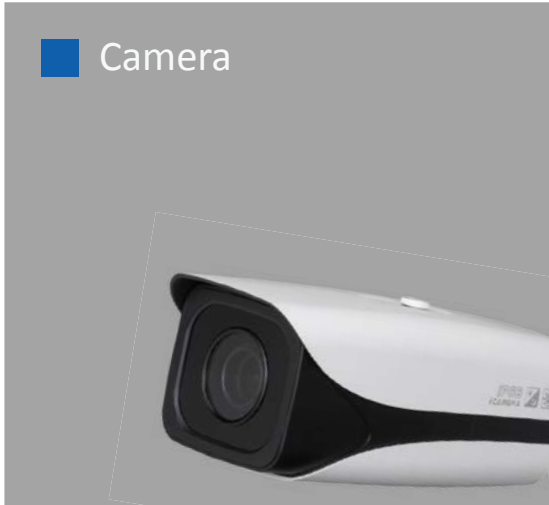
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HDCVI SOLUTION

■ Camera



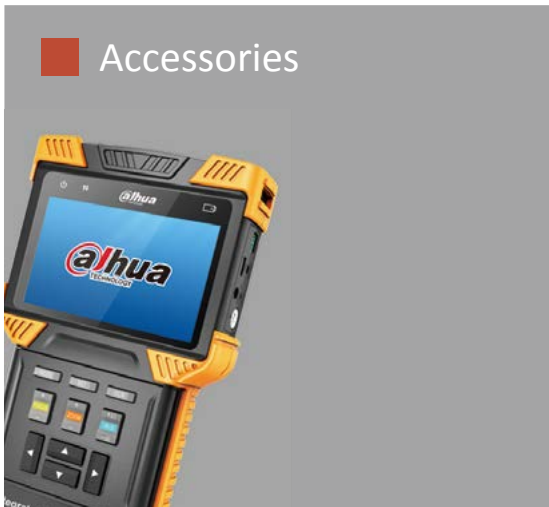
■ PTZ



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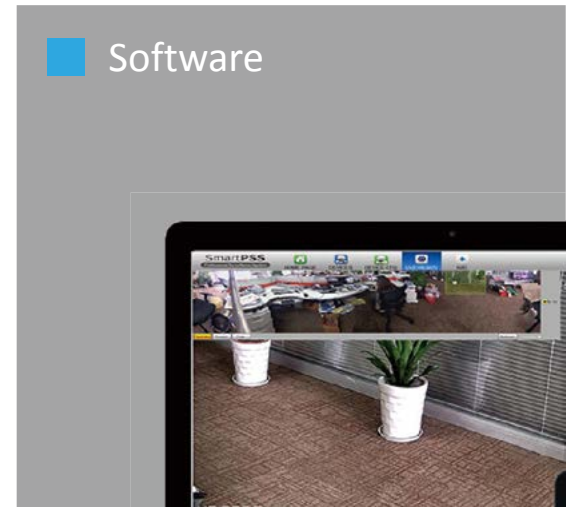


■ Accessories



HDCVI

■ Software



HDCVI Technology

Dahua Technology releases High Definition Composite Video Interface (HDCVI) technology with patented Intellectual Property Rights. HDCVI is an over-coaxial-cable video transmission standard, allowing reliable long-distance HD video transmission in wide application scenarios at friendly cost.

HDCVI TECHNOLOGY

Bring HD video into coaxial cable with patented IP rights



Main Benefits:

Video/Audio/Data/Power in one cable

4 Signals



Main Benefits:

4MP real-time;
1080P real-time;
720P real-time;

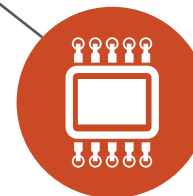
High
Resolution



Main Benefits:

Long distance transmission:
Coaxial Cable : Up to 1200m;
UTP: Up to 450m;

Long
Distance



Main Benefits:

Investment protection to be compatible with existing coaxial cable:

Penta-brid (HDCVI/ AHD/ TVI/ CVBS/ IP);

Seamless upgrade from traditional analog system;

Seamless



HDCVI CAMERA










Ultra Series

- Superior image performance: Sony Exmor sensor, Starlight™ ability, true WDR up to 120dB
- Auto-iris motorized lens
- Project-oriented features: multi-language OSD, AC24V/DC12V, optional heater
- Multiple interfaces: audio in, alarm in/out, tester-out interface
- Elegant appearance










Ultra Series		
	1080P Starlight	
	HAC-HF3232	HAC-HF3231E(-T)
Model	 starlight	 starlight
Image Sensor	1/1.9" 2Mp Exmor CMOS	1/2.8" 2Mp Exmor R CMOS
Min. Illumination	0.002Lux/F1.2 (Color) 0.0002Lux/F1.2 (B/W)	0.005Lux/F1.2 (Color) 0.0005Lux/F1.2 (B/W)
Lens	C/CS, Auto Iris	C/CS, Auto Iris
FOV-H	-	-
Day/Night	ICR	ICR
Max. IR Distance	-	-
OSD Menu	Multi-language	Multi-language
WDR	140dB	120dB
Noise Reduction	2D/3D	2D/3D
Frame Rate	30fps@1080P 30/60fps@720P	30fps@1080P 30/60fps@720P
Video Output	HD/SD Switchable	HD/SD Dual-output SDI Output(-T)
Audio In	1	1
Alarm In/Out	1/1	2/1
Pan/Tilt/Rotation	-	-
Ingress Protection	-	-
Working Temperature	-30°C~+60°C (-22°F ~ +140°F)	-30°C~+60°C (-22°F ~ +140°F)
Power	AC24V±10%/DC12V±10% Max. 8.7W	AC24V±25%/DC12V±25% Max. 4.7W









Ultra Series					
	1080P Starlight				Pinhole
	HAC-HFW3231E-Z(T)	HAC-HFW3231E-ZH	HAC-HDBW3231E-Z(T)	HAC-HDBW3231E-ZH	HAC-HUM3100B
Model	 starlight	 starlight	 starlight	 starlight	
Image Sensor	1/2.8" 2Mp Exmor R CMOS	1/2.8" 2Mp Exmor R CMOS	1/2.8" 2Mp Exmor R CMOS	1/2.8" 2Mp Exmor R CMOS	1/2.9" 1Mp CMOS
Min. Illumination	0.005Lux/F1.4 (Color) 0Lux/F1.4 (IR On)	0.005Lux/F1.4 (Color) 0Lux/F1.4 (IR On)	0.005Lux/F1.4 (Color) 0Lux/F1.4 (IR On)	0.005Lux/F1.4 (Color) 0Lux/F1.4 (IR On)	0.05Lux/F2.8 (Color) 0.005Lux/F2.8 (B/W)
Lens	2.7~12mm Motorized, Auto Iris	2.7~12mm Motorized, Auto Iris	2.7~12mm Motorized, Auto Iris	2.7~12mm Motorized, Auto Iris	3.6mm
FOV-H	95°~36°	95°~36°	95°~36°	95°~36°	79.7°
Day/Night	ICR	ICR	ICR	ICR	Electronic
Max. IR Distance	100m (328ft), Smart IR	100m (328ft), Smart IR	50m (164ft), Smart IR	50m (164ft), Smart IR	-
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
WDR	120dB	120dB	120dB	120dB	-
Noise Reduction	2D/3D	2D/3D	2D/3D	2D/3D	2D
Frame Rate	30fps@1080P 30/60fps@720P	30fps@1080P 30/60fps@720P	30fps@1080P 30/60fps@720P	30fps@1080P 30/60fps@720P	30fps@720P
Video Output	HD/SD Dual-output, SD Tester-out, SDI Output(-ZT)	HD/SD Dual-output, SD Tester-out	HD/SD Dual-output, SD Tester-out, SDI Output(-ZT)	HD/SD Dual-output, SD Tester-out	HD
Audio In	1	1	1	1	1
Alarm In/Out	1/1	1/1	1/1	1/1	-
Pan/Tilt/Rotation	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~355°; Tilt: 0°~65° Rotation: 0°~355°	Pan: 0°~355°; Tilt: 0°~65° Rotation: 0°~355°	Pan: 0°~360°; Tilt: 0°~180° Rotation: NA
Ingress Protection	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	-
Working Temperature	-30°C~+60°C (-22°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)	-30°C~+60°C (-22°F ~ +140°F)
Power	AC24V±25%/DC12V±25% Max. 16.6W	AC24V±25%/DC12V±25% Max. 22.9W	AC24V±25%/DC12V±25% Max. 12.5W	AC24V±25%/DC12V±25% Max. 21.5W	DC12V±10% Max. 1.5W








Pro Series








- High resolution up to 4MP, real-time monitoring
- Adopting high performance ISP and image sensor
- True WDR up to 120dB, clear image with rich details even under backlight
- Motorized/fixed lens models of 10+ original Dahua design
- Multi-language OSD and HD/SD output suit different applications









Pro Series				
4MP True WDR				
	HAC-HFW2401R-Z-IRE6	HAC-HFW2401R-Z-IRE6-DP	HAC-HDBW2401R-Z	HAC-HDBW2401R-Z-DP
Model				
Image Sensor	1/3" 4Mp CMOS	1/3" 4Mp CMOS	1/3" 4Mp CMOS	1/3" 4Mp CMOS
Min. Illumination	0.01Lux/F1.3 (Color) 0Lux/F1.3 (IR On)	0.01Lux/F1.3 (Color) 0Lux/F1.3 (IR On)	0.01Lux/F1.3 (Color) 0Lux/F1.3 (IR On)	0.01Lux/F1.3 (Color) 0Lux/F1.3 (IR On)
Lens	2.7~13.5mm, Motorized	2.7~13.5mm, Motorized	2.7~13.5mm, Motorized	2.7~13.5mm, Motorized
FOV-H	98°~26°	98°~26°	98°~26°	98°~26°
Day/Night	ICR	ICR	ICR	ICR
Max. IR Distance	60m (197ft), Smart IR	60m (197ft), Smart IR	30m (98ft), 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	25fps@4MP, 30fps@1080P, 30fps@720P	25fps@4MP, 30fps@1080P, 30fps@720P	25fps@4MP, 30fps@1080P, 30fps@720P	25fps@4MP, 30fps@1080P, 30fps@720P
Video Output	HD/SD Dual-output	HD/SD Dual-output	HD/SD Dual-output	HD/SD Dual-output
Audio In	-	-	-	-
Alarm In/Out	-	-	-	-
Pan/Tilt/Rotation	Pan: 0°~360°; Tilt: 0°~87° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~87° Rotation: 0°~360°	Pan: 0°~355°; Tilt: 0°~75° Rotation: 0°~355°	Pan: 0°~355°; Tilt: 0°~75° Rotation: 0°~355°
Ingress Protection	IP67	IP67	IP67, IK10	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)
Power	DC12V±25% Max. 11.1W	AC24V±25%/DC12V±25% Max. 15.4W	DC12V±25% Max. 7.5W	AC24V±25%/DC12V±25% Max. 10.1W

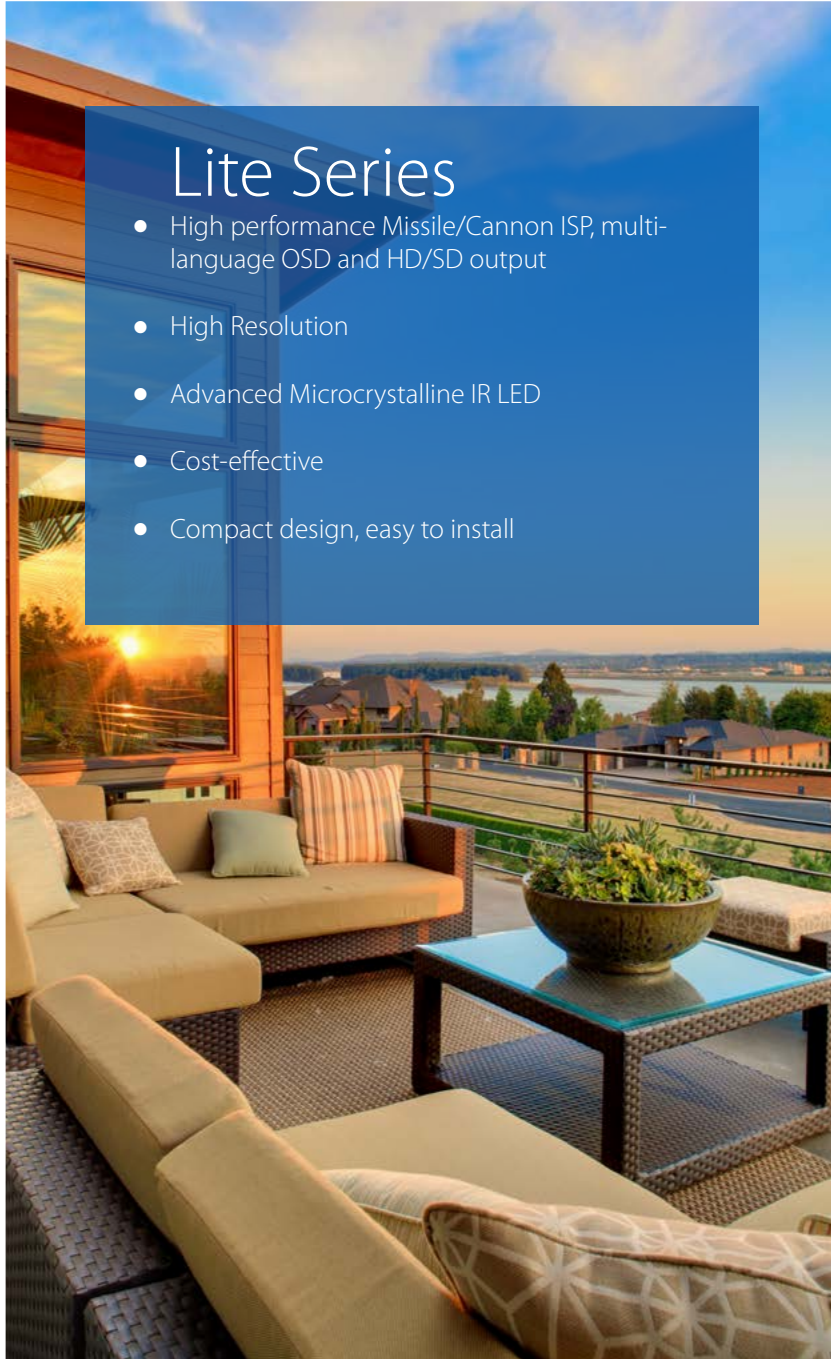
Pro Series									
4MP True WDR									
Model	HAC-HDW2401R-Z	HAC-HDW2401R-Z-DP	HAC-HFW2401D	HAC-HFW2401E	HAC-HFW2401S	HAC-HDBW2401E	HAC-HDW2401EM	HAC-HDW2401M	HAC-EB2401
									
Image Sensor	1/3" 4Mp CMOS	1/3" 4Mp CMOS	1/3" 4Mp CMOS	1/3" 4Mp CMOS	1/3" 4Mp CMOS	1/3" 4Mp CMOS	1/3" 4Mp CMOS	1/3" 4Mp CMOS	1/3" 4Mp CMOS
Min. Illumination	0.01Lux/F1.3 (Color) 0Lux/F1.3 (IR On)	0.01Lux/F1.3 (Color) 0Lux/F1.3 (IR On)	0.01Lux/F1.5 (Color) 0Lux/F1.5 (IR On)	0.01Lux/F1.5 (Color) 0Lux/F1.5 (IR On)	0.01Lux/F1.5 (Color) 0Lux/F1.5 (IR On)	0.01Lux/F1.5 (Color) 0Lux/F1.5 (IR On)	0.01Lux/F1.5 (Color) 0Lux/F1.5 (IR On)	0.01Lux/F1.5 (Color) 0Lux/F1.5 (IR On)	0.01Lux/F2.0 (Color) 0.001Lux/F2.0 (B/W)
Lens	2.7~13.5mm, Motorized	2.7~13.5mm, Motorized	3.6mm (6mm, 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)	1.18mm
FOV-H	98°~26°	98°~26°	79°(48.6°/32.9°)	79°(99.7°/48.6°)	79°(99.7°/48.6°)	79°(99.7°/48.6°)	79°(99.7°/48.6°)	79°(99.7°/48.6°)	180°
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR	ICR	ICR	Electronic
Max. IR Distance	60m (197ft), Smart IR	60m (197ft), Smart IR	80m (262ft), Smart IR	40m (131ft), Smart IR	30m (98ft), Smart IR	30m (98ft), Smart IR	50m (164ft), Smart IR	30m (98ft), Smart IR	-
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
WDR	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB
Noise Reduction	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D
Frame Rate	25fps@4M 30fps@1080P 30fps@720P	25fps@4M 30fps@1080P 30fps@720P	25fps@4M 30fps@1080P 30fps@720P	25fps@4M 30fps@1080P 30fps@720P	25fps@4M 30fps@1080P 30fps@720P	25fps@4M 30fps@1080P 30fps@720P	25fps@4M 30fps@1080P 30fps@720P	25fps@4M 30fps@1080P 30fps@720P	25fps@4M 30fps@1080P 30fps@720P
Video Output	HD/SD Dual-output	HD/SD Dual-output	HD/SD Dual-output	HD/SD Dual-output	HD/SD Dual-output	HD/SD Dual-output	HD/SD Dual-output	HD/SD Dual-output	HD/SD Dual-output
Audio In	-	-	-	-	-	-	-	-	-
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°~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°~65° Rotation: 0°~355°	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, IK10	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)	-30°C~+60°C (-22°F ~ +140°F)	-30°C~+60°C (-22°F ~ +140°F)
Power	DC12V±25% Max. 8.4W	AC24V±25%/DC12V±25% Max. 11.6W	DC12V±25% Max. 6W	DC12V±25% Max. 5.9W	DC12V±25% Max. 4.9W	DC12V±25% Max. 3.6W	DC12V±25% Max. 4.4W	DC12V±25% Max. 5.3W	DC12V±25% Max. 2.4W

Pro Series								
1080P Starlight								
Model	HAC-HFW2231R-Z-IRE6	HAC-HFW2231R-Z-IRE6-DP	HAC-HDBW2231R-Z	HAC-HDBW2231R-Z-DP	HAC-HDW2231R-Z	HAC-HDW2231R-Z-DP	HAC-HFW2231D	HAC-HFW2231B
								
Image Sensor	1/2.8" 2Mp Exmor R CMOS	1/2.8" 2Mp Exmor R CMOS	1/2.8" 2Mp Exmor R CMOS	1/2.8" 2Mp Exmor R CMOS	1/2.8" 2Mp Exmor R CMOS	1/2.8" 2Mp Exmor R CMOS	1/2.8" 2Mp Exmor R CMOS	1/2.8" 2Mp Exmor R CMOS
Min. Illumination	0.005Lux/F1.3 (Color) 0Lux/F1.3 (IR On)	0.005Lux/F1.3 (Color) 0Lux/F1.3 (IR On)	0.005Lux/F1.3 (Color) 0Lux/F1.3 (IR On)	0.005Lux/F1.3 (Color) 0Lux/F1.3 (IR On)	0.005Lux/F1.3 (Color) 0Lux/F1.3 (IR On)	0.005Lux/F1.3 (Color) 0Lux/F1.3 (IR On)	0.005Lux/F1.5 (Color) 0Lux/F1.5 (IR On)	0.005Lux/F1.5 (Color) 0Lux/F1.5 (IR On)
Lens	2.7~13.5mm (7~22mm Optional), Motorized	2.7~13.5mm, Motorized	2.7~13.5mm, Motorized	2.7~13.5mm, Motorized	2.7~13.5mm, Motorized	2.7~13.5mm, Motorized	3.6mm (6mm, 8mm, 12mm Optional)	3.6mm (6mm, 8mm Optional)
FOV-H	102°~29°(40°~17°)	102°~29°	102°~29°	102°~29°	102°~29°	102°~29°	87°(53°/40.3°/25.7°)	87°(53°/40.3°)
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR	ICR	ICR
Max. IR Distance	60m (197ft), Smart IR	60m (197ft), Smart IR	30m (98ft), Smart IR	30m (98ft), Smart IR	60m (197ft), Smart IR	60m (197ft), Smart IR	80m (262ft), Smart IR	50m (164ft), Smart IR
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
WDR	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB
Noise Reduction	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D
Frame Rate	30fps@1080P, 30fps@720P	30fps@1080P, 30fps@720P	30fps@1080P, 30fps@720P	30fps@1080P, 30fps@720P	30fps@1080P, 30fps@720P	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	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°~87° Rotation: 0°~360°	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°~87° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~87° Rotation: 0°~360°
Ingress Protection	IP67	IP67	IP67, IK10	IP67, IK10	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)	-40°C~+60°C (-40°F ~ +140°F)
Power	DC12V±25% Max. 10.1W	AC24V±25%/DC12V±25% Max. 14.1W	DC12V±25% Max. 5.4W	AC24V±25%/DC12V±25% Max. 8W	DC12V±25% Max. 7.2W	AC24V±25%/DC12V±25% Max. 10.5W	DC12V±25% Max. 4.8W	DC12V±25% Max. 3.9W

Pro Series							
1080P Starlight							
Model	HAC-HFW2231E	HAC-HFW2231S	HAC-HDBW2231E	HAC-HDBW2231F	HAC-HDW2231EM	HAC-HDW2231M	HAC-HDW2231S
	 starlight	 starlight	 starlight	 starlight	 starlight	 starlight	 starlight
Image Sensor	1/2.8" 2Mp Exmor R CMOS	1/2.8" 2Mp Exmor R CMOS	1/2.8" 2Mp Exmor R CMOS	1/2.8" 2Mp Exmor R CMOS	1/2.8" 2Mp Exmor R CMOS	1/2.8" 2Mp Exmor R CMOS	1/2.8" 2Mp Exmor R CMOS
Min. Illumination	0.005Lux/F1.5 (Color) 0Lux/F1.5 (IR On)	0.005Lux/F1.5 (Color) 0Lux/F1.5 (IR On)	0.005Lux/F1.5 (Color) 0Lux/F1.5 (IR On)	0.005Lux/F1.5 (Color) 0Lux/F1.5 (IR On)	0.005Lux/F1.5 (Color) 0Lux/F1.5 (IR On)	0.005Lux/F1.5 (Color) 0Lux/F1.5 (IR On)	0.005Lux/F1.5 (Color) 0Lux/F1.5 (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)	3.6mm (2.8mm, 6mm Optional)	3.6mm (2.8mm, 6mm Optional)
FOV-H	87°(53°)	87°(108.3°/53°)	87°(108.3°/53°)	87°(108.3°/53°)	87°(108.3°/53°)	87°(108.3°/53°)	87°(108.3°/53°)
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR	ICR
Max. IR Distance	40m (131ft), Smart IR	30m (98ft), Smart IR	30m (98ft), Smart IR	20m (66ft), Smart IR	50m (164ft), Smart IR	30m (98ft), Smart IR	30m (98ft), 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	30fps@1080P, 30fps@720P	30fps@1080P, 30fps@720P	30fps@1080P, 30fps@720P	30fps@1080P, 30fps@720P	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	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°~355°; Tilt: 0°~65° Rotation: 0°~355°	Pan: 0°~60°; Tilt: 0°~80° 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, IK10	IP67, IK10	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	DC12V±25% Max. 4.7W	DC12V±25% Max. 3.4W	DC12V±25% Max. 3.5W	DC12V±25% Max. 2.2W	DC12V±25% Max. 3.9W	DC12V±25% Max. 2.6W	DC12V±25% Max. 2.6W

Pro Series							
1080P True WDR							
Model	HAC-HFW2221R-Z-IRE6	HAC-HFW2221R-Z-IRE6-DP	HAC-HDBW2221R-Z	HAC-HDBW2221R-Z-DP	HAC-HDW2221R-Z	HAC-HDW2221R-Z-DP	HAC-HFW2221D
							
Image Sensor	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	1/2.7" 2Mp CMOS
Min. Illumination	0.03Lux/F1.4 (Color) 0Lux/F1.4 (IR On)	0.03Lux/F1.4 (Color) 0Lux/F1.4 (IR On)	0.03Lux/F1.4 (Color) 0Lux/F1.4 (IR On)	0.03Lux/F1.4 (Color) 0Lux/F1.4 (IR On)	0.03Lux/F1.4 (Color) 0Lux/F1.4 (IR On)	0.03Lux/F1.4 (Color) 0Lux/F1.4 (IR On)	0.03Lux/F2.0 (Color) 0Lux/F2.0 (IR On)
Lens	2.7~12mm (7~22mm Optional), Motorized	2.7~12mm, Motorized	2.7~12mm, Motorized	2.7~12mm, Motorized	2.7~12mm, Motorized	2.7~12mm, Motorized	3.6mm (6mm, 8mm, 12mm Optional)
FOV-H	99°~37°(41°~17.5°)	99°~37°	99°~37°	99°~37°	99°~37°	99°~37°	90°(59.4°/41.4°/26.5°)
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR	ICR
Max. IR Distance	60m (197ft), Smart IR	60m (197ft), Smart IR	30m (98ft), Smart IR	30m (98ft), 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	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	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	30fps@1080P 30/60fps@720P
Video Output	HD/SD Dual-output	HD/SD Dual-output	HD/SD Dual-output, SD Tester-out	HD/SD Dual-output, SD Tester-out	HD/SD Dual-output	HD/SD Dual-output	HD/SD Dual-output
Audio In	-	-	-	-	-	-	-
Alarm In/Out	-	-	-	-	-	-	-
Pan/Tilt/Rotation	Pan: 0°~360°; Tilt: 0°~87° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~87° Rotation: 0°~360°	Pan: 0°~355°; Tilt: 0°~75° Rotation: 0°~355°	Pan: 0°~355°; Tilt: 0°~75° Rotation: 0°~355°	Pan: 0°~360°; Tilt: 0°~67° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~67° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~87° Rotation: 0°~360°
Ingress Protection	IP67	IP67	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±25% Max. 8.2W	AC24V±25%/DC12V±25% Max. 15.2W	DC12V±25% Max. 5W	AC24V±25%/DC12V±25% Max. 10W	DC12V±25% Max. 10W	AC24V±25%/DC12V±25% Max. 12W	DC12V±25% Max. 5.7W







Pro Series								
1080P True WDR								
Model	HAC-HFW2221E	HAC-HFW2221S	HAC-HDBW2221E	HAC-HDBW2221F	HAC-HDW2221E	HAC-HDW2221EM(-A)	HAC-HDW2221M	HAC-HDW2221S
								
Image Sensor	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	1/2.7" 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)	0.03Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.03Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.03Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.03Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.03Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.03Lux/F2.0 (Color) 0Lux/F2.0 (IR On)
Lens	3.6mm (6mm, 8mm Optional)	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, 8mm Optional)	3.6mm (6mm Optional)	3.6mm (6mm Optional)
FOV-H	90°(59.4°/41.4°)	90°(115.6°/59.4°/41.4°)	90°(115.6°/59.4°)	90°(115.6°/59.4°)	90°(115.6°/59.4°/41.4°)	90°(115.6°/59.4°/41.4°)	90°(59.4°)	90°(59.4°)
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR	ICR	ICR
Max. IR Distance	40m (131ft), Smart IR	30m (98ft), Smart IR	30m (98ft), Smart IR	20m (66ft), Smart IR	50m (164ft), Smart IR	50m (164ft), Smart IR	30m (98ft), Smart IR	30m (98ft), Smart IR
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
WDR	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB
Noise Reduction	2D/3D	2D/3D	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	30fps@1080P 30/60fps@720P	30fps@1080P 30/60fps@720P
Video Output	HD/SD Dual-output	HD/SD Dual-output	HD/SD Dual-output, SD Tester-out	HD/SD Dual-output, SD Tester-out	HD/SD Dual-output	HD/SD Dual-output	HD/SD Dual-output	HD/SD Dual-output
Audio In	-	-	-	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°~355°; Tilt: 0°~65° Rotation: 0°~355°	Pan: 0°~60°; Tilt: 0°~80° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~70° 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, IK10	IP67, IK10	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)	-30°C~+60°C (-22°F ~ +140°F)	-30°C~+60°C (-22°F ~ +140°F)
Power	DC12V±25% Max. 5.5W	DC12V±25% Max. 5W	DC12V±25% Max. 5.5W	DC12V±25% Max. 3.5W	DC12V±25% Max. 5.5W	DC12V±25% Max. 5.5W	DC12V±25% Max. 4W	DC12V±25% Max. 4W

















Lite Series









- High performance Missile/Cannon ISP, multi-language OSD and HD/SD output
- High Resolution
- Advanced Microcrystalline IR LED
- Cost-effective
- Compact design, easy to install









Lite Series		
	4MP	
	HAC-HFW1400R-VF-IRE6	HAC-HFW1400R-VF
Model	 Missile	 Missile
Image Sensor	1/3" 4Mp CMOS	1/3" 4Mp CMOS
Min. Illumination	0.03Lux/F1.3 (Color) 0Lux/F1.3 (IR On)	0.03Lux/F1.3 (Color) 0Lux/F1.3 (IR On)
Lens	2.7~13.5mm, Manual	2.7~13.5mm, Manual
FOV-H	98°~26°	98°~26°
Day/Night	ICR	ICR
Max. IR Distance	60m (197ft), Smart IR	30m (98ft), Smart IR
OSD Menu	Multi-language	Multi-language
WDR	DWDR	DWDR
Noise Reduction	2D	2D
Frame Rate	30fps@4MP, 30fps@1080P, 30fps@720P	30fps@4MP, 30fps@1080P, 30fps@720P
Video Output	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°~87° Rotation: 0°~360°
Ingress Protection	IP67	IP67
Working Temperature	-40°C~+60°C (-40°F ~ +140°F)	-40°C~+60°C (-40°F ~ +140°F)
Power	DC12V±25% Max. 7.6W	DC12V±25% Max. 4.6W










Lite Series						
4MP						
Model	HAC-HDBW1400R-VF	HAC-HDW1400R-VF	HAC-HFW1400D	HAC-HFW1400B	HAC-HFW1400S	HAC-HFW1400SL
	 Missile	 Missile	 Missile	 Missile	 Missile	 Missile
Image Sensor	1/3" 4Mp CMOS	1/3" 4Mp CMOS	1/3" 4Mp CMOS	1/3" 4Mp CMOS	1/3" 4Mp CMOS	1/3" 4Mp CMOS
Min. Illumination	0.03Lux/F1.3 (Color) 0Lux/F1.3 (IR On)	0.03Lux/F1.3 (Color) 0Lux/F1.3 (IR On)	0.03Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.03Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.03Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.03Lux/F2.0 (Color) 0Lux/F2.0 (IR On)
Lens	2.7~13.5mm, Manual	2.7~13.5mm, Manual	3.6mm (6mm, 8mm, 12mm Optional)	3.6mm (6mm, 8mm Optional)	3.6mm (2.8mm, 6mm, 8mm Optional)	3.6mm (2.8mm, 6mm, 8mm Optional)
FOV-H	98°~26°	98°~26°	84.8°(52.5°/32.9°/23.6°)	84.8°(52.5°/32.9°)	84.8°(99.7°/52.5°/32.9°)	84.8°(99.7°/52.5°/32.9°)
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR
Max. IR Distance	30m (98ft), Smart IR	30m (98ft), Smart IR	80m (262ft), Smart IR	50m (164ft), 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@4MP, 30fps@1080P, 30fps@720P	30fps@4MP, 30fps@1080P, 30fps@720P	30fps@4MP, 30fps@1080P, 30fps@720P	30fps@4MP, 30fps@1080P, 30fps@720P	30fps@4MP, 30fps@1080P, 30fps@720P	30fps@4MP, 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°~75° Rotation: 0°~355°	Pan: 0°~360°; Tilt: 0°~90° 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, 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)	-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. 4.1W	DC12V±25% Max. 4.6W	DC12V±25% Max. 5.2W	DC12V±25% Max. 4.1W	DC12V±25% Max. 4.6W	DC12V±25% Max. 4.6W









Lite Series						
4MP						
Model	HAC-HFW1400T	HAC-HFW1400R	HAC-HDBW1400E	HAC-HDW1400EM	HAC-HDW1400M	HAC-HDW1400R
	 Missile	 Missile	 Missile	 Missile	 Missile	 Missile
Image Sensor	1/3" 4Mp CMOS	1/3" 4Mp CMOS	1/3" 4Mp CMOS	1/3" 4Mp CMOS	1/3" 4Mp CMOS	1/3" 4Mp CMOS
Min. Illumination	0.03Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.03Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.03Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.03Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.03Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.03Lux/F2.0 (Color) 0Lux/F2.0 (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, 6mm, 8mm Optional)	3.6mm (2.8mm, 6mm Optional)	3.6mm (2.8mm, 6mm Optional)
FOV-H	84.8°(99.7°/52.5°)	84.8°(99.7°/52.5°)	84.8°(99.7°/52.5°)	84.8°(99.7°/52.5°/32.9°)	84.8°(99.7°/52.5°)	84.8°(99.7°/52.5°)
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR
Max. IR Distance	20m (66ft), Smart IR	20m (66ft), Smart IR	30m (98ft), Smart IR	50m (164ft), Smart IR	30m (98ft), 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	30fps@4MP, 30fps@1080P, 30fps@720P	30fps@4MP, 30fps@1080P, 30fps@720P	30fps@4MP, 30fps@1080P, 30fps@720P	30fps@4MP, 30fps@1080P, 30fps@720P	30fps@4MP, 30fps@1080P, 30fps@720P	30fps@4MP, 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°~355°; Tilt: 0°~65° 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°
Ingress Protection	IP67	IP67	IP67, IK10	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±25% Max. 3.2W	DC12V±25% Max. 3.2W	DC12V±25% Max. 2.2W	DC12V±25% Max. 4.1W	DC12V±25% Max. 3.2W	DC12V±25% Max. 3.2W







Lite Series								
1080P								
Model	HAC-HFW1220R-VF-IRE6	HAC-HFW1200R-VF-IRE6	HAC-HFW1220R-VF	HAC-HFW1200R-VF	HAC-HDBW1220R-VF	HAC-HDBW1200R-VF	HAC-HDW1220R-VF	HAC-HDW1200R-VF
								
Image Sensor	1/2.9" 2Mp Exmor CMOS	1/2.7" 2Mp CMOS	1/2.9" 2Mp Exmor CMOS	1/2.7" 2Mp CMOS	1/2.9" 2Mp Exmor CMOS	1/2.7" 2Mp CMOS	1/2.9" 2Mp Exmor CMOS	1/2.7" 2Mp CMOS
Min. Illumination	0.02Lux/F1.3 (Color) 0Lux/F1.3 (IR On)	0.02Lux/F1.3 (Color) 0Lux/F1.3 (IR On)	0.02Lux/F1.3 (Color) 0Lux/F1.3 (IR On)	0.02Lux/F1.3 (Color) 0Lux/F1.3 (IR On)	0.02Lux/F1.3 (Color) 0Lux/F1.3 (IR On)	0.02Lux/F1.3 (Color) 0Lux/F1.3 (IR On)	0.02Lux/F1.3 (Color) 0Lux/F1.3 (IR On)	0.02Lux/F1.3 (Color) 0Lux/F1.3 (IR On)
Lens	2.7~13.5mm, Manual	2.7~13.5mm, Manual	2.7~13.5mm, Manual	2.7~13.5mm, Manual	2.7~13.5mm, Manual	2.7~13.5mm, Manual	2.7~13.5mm, Manual	2.7~13.5mm, Manual
FOV-H	104°~27°	109°~29°	104°~27°	109°~29°	104°~27°	109°~29°	104°~27°	109°~29°
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR	ICR	ICR
Max. IR Distance	60m (197ft), Smart IR	60m (197ft), Smart IR	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	Multi-language	Multi-language
WDR	DWDR	DWDR	DWDR	DWDR	DWDR	DWDR	DWDR	DWDR
Noise Reduction	2D	2D	2D	2D	2D	2D	2D	2D
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	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	-	-	-	-	-	-	-	-
Alarm In/Out	-	-	-	-	-	-	-	-
Pan/Tilt/Rotation	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°~87° Rotation: 0°~360°	Pan: 0°~355°; Tilt: 0°~75° Rotation: 0°~355°	Pan: 0°~355°; Tilt: 0°~75° Rotation: 0°~355°	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	IP67, IK10	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)	-40°C~+60°C (-40°F ~ +140°F)
Power	DC12V±25% Max. 7.7W	DC12V±25% Max. 9.2W	DC12V±25% Max. 2.5W	DC12V±25% Max. 3W	DC12V±25% Max. 3.4W	DC12V±25% Max. 3.5W	DC12V±25% Max. 4.2W	DC12V±25% Max. 3.5W

Lite Series								
1080P								
Model	HAC-HFW1220D	HAC-HFW1200D	HAC-HFW1220B	HAC-HFW1200B	HAC-HFW1220S	HAC-HFW1200S	HAC-HFW1220SL	HAC-HFW1200SL
								
Image Sensor	1/2.9" 2Mp Exmor CMOS	1/2.7" 2Mp CMOS	1/2.9" 2Mp Exmor CMOS	1/2.7" 2Mp CMOS	1/2.9" 2Mp Exmor CMOS	1/2.7" 2Mp CMOS	1/2.9" 2Mp Exmor CMOS	1/2.7" 2Mp CMOS
Min. Illumination	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)	0.02Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.02Lux/F2.0 (Color) 0Lux/F2.0 (IR On)
Lens	3.6mm (6mm, 8mm Optional)	3.6mm (6mm, 8mm Optional)	3.6mm (2.8mm, 6mm, 8mm Optional)	3.6mm (6mm, 8mm Optional)	3.6mm (2.8mm, 6mm Optional)	3.6mm (6mm Optional)	3.6mm (2.8mm, 6mm Optional)	3.6mm (6mm, 8mm Optional)
FOV-H	82.8°(51.2°/35.1°)	89.9°(59.4°/41.4°)	82.8°(106°/51.2°/35.1°)	89.9°(59.4°/41.4°)	82.8°(106°/51.2°)	89.9°(59.4°)	82.8°(106°/51.2°)	89.9°(59.4°/41.4°)
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR	ICR	ICR
Max. IR Distance	80m (262ft), Smart IR	80m (262ft), Smart IR	50m (164ft), Smart IR	50m (164ft), 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	Multi-language	Multi-language
WDR	DWDR	DWDR	DWDR	DWDR	DWDR	DWDR	DWDR	DWDR
Noise Reduction	2D	2D	2D	2D	2D	2D	2D	2D
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	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	-	-	-	-	-	-	-	-
Alarm In/Out	-	-	-	-	-	-	-	-
Pan/Tilt/Rotation	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°~87° 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	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)	-40°C~+60°C (-40°F ~ +140°F)
Power	DC12V±25% Max. 4.5W	DC12V±25% Max. 6.8W	DC12V±25% Max. 4W	DC12V±25% Max. 4.8W	DC12V±25% Max. 2.8W	DC12V±25% Max. 3.9W	DC12V±25% Max. 3.9W	DC12V±25% Max. 3.8W







Lite Series								
1080P								
Model	HAC-HFW1220RM	HAC-HFW1200RM	HAC-HFW1220R	HAC-HFW1200R	HAC-HDBW1220E	HAC-HDBW1200E	HAC-HDW1220EM(-A)	HAC-HDW1200EM(-A)
								
Image Sensor	1/2.9" 2Mp Exmor CMOS	1/2.7" 2Mp CMOS	1/2.9" 2Mp Exmor CMOS	1/2.7" 2Mp CMOS	1/2.9" 2Mp Exmor CMOS	1/2.7" 2Mp CMOS	1/2.9" 2Mp Exmor CMOS	1/2.7" 2Mp CMOS
Min. Illumination	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)	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, 6mm Optional)	3.6mm (6mm Optional)	3.6mm (2.8mm, 6mm Optional)	3.6mm (6mm Optional)	3.6mm (2.8mm, 6mm Optional)	3.6mm (2.8mm, 6mm Optional)	3.6mm (2.8mm, 6mm Optional)	3.6mm (6mm Optional)
FOV-H	82.8°(106°/51.2°)	89.9°(59.4°)	82.8°(106°/51.2°)	89.9°(59.4°)	82.8°(106°/51.2°)	89.9°(115.6°/59.4°)	82.8°(106°/51.2°)	89.9°(59.4°)
Day/Night	ICR	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	30m (98ft), Smart IR	30m (98ft), Smart IR	50m (164ft), Smart IR	50m (164ft), Smart IR
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
WDR	DWDR	DWDR	DWDR	DWDR	DWDR	DWDR	DWDR	DWDR
Noise Reduction	2D	2D	2D	2D	2D	2D	2D	2D
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	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(-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°~355°; Tilt: 0°~65° Rotation: 0°~355°	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°
Ingress Protection	IP67	IP67	IP67	IP67	IP67, IK10	IP67, IK10	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)	-40°C~+60°C (-40°F ~ +140°F)
Power	DC12V±25% Max. 2.8W	DC12V±25% Max. 3W	DC12V±25% Max. 2.8W	DC12V±25% Max. 2.3W	DC12V±25% Max. 2.6W	DC12V±25% Max. 2.8W	DC12V±25% Max. 2.9W	DC12V±25% Max. 4.4W

Lite Series									
1080P									
Model	HAC-HDW1220M	HAC-HDW1200M	HAC-HDW1220G	HAC-HDW1220R	HAC-HDW1200R	HAC-HUM1220A	HAC-HUM1220A-W	HAC-HUM1220G(-B)	HAC-HUM1220G-B-P
									
Image Sensor	1/2.9" 2Mp Exmor CMOS	1/2.7" 2Mp CMOS	1/2.9" 2Mp Exmor CMOS	1/2.9" 2Mp Exmor CMOS	1/2.7" 2Mp CMOS	1/2.9" 2Mp Exmor CMOS	1/2.9" 2Mp Exmor CMOS	1/2.9" 2Mp Exmor CMOS	1/2.9" 2Mp Exmor CMOS
Min. Illumination	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) 0.002Lux/F2.0 (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/F2.0 (Color) 0.002Lux/F2.0 (B/W)
Lens	3.6mm (2.8mm, 6mm Optional)	3.6mm (6mm Optional)	3.6mm (6mm Optional)	3.6mm (2.8mm, 6mm Optional)	3.6mm (6mm Optional)	2.8mm	2.8mm	3.6mm (2.1mm, 2.8mm Optional)	2.8mm
FOV-H	82.8°(106°/51.2°)	89.9°(59.4°)	82.8°(51.2°)	82.8°(106°/51.2°)	89.9°(59.4°)	100.5°	100.5°	88°(122.5°/109.4°)	100.5°
Day/Night	ICR	ICR	ICR	ICR	ICR	Electronic	Electronic	Electronic	Electronic
Max. IR Distance	30m (98ft), Smart IR	30m (98ft), 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	Multi-language	Multi-language
WDR	DWDR	DWDR	DWDR	DWDR	DWDR	DWDR	DWDR	DWDR	DWDR
Noise Reduction	2D	2D	2D	2D	2D	2D	2D	2D	2D
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	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	HD/SD Switchable
Audio In	-	-	Built-in Mic	-	-	-	-	-	-
Alarm In/Out	-	-	-	-	-	PIR Alarm, Coax out	PIR Alarm, Coax & Wireless 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°~80° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~180°; Tilt: 0°~180° Rotation: 0°~360°	Pan: 0°~180°; Tilt: 0°~180° 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)	-10°C~+50°C (14°F ~ +122°F)	-10°C~+50°C (14°F ~ +122°F)	-40°C~+60°C (-40°F ~ +140°F)	-40°C~+60°C (-40°F ~ +140°F)
Power	DC12V±25% Max. 2.8W	DC12V±25% Max. 2.8W	DC12V±25% Max. 2.9W	DC12V±25% Max. 2.8W	DC12V±25% Max. 2.8W	DC12V±25% Max. 0.7W	DC12V±25% Max. 0.7W	DC12V±25% Max. 0.6W	DC12V±25% Max. 0.6W

Lite Series								
720P								
Model	HAC-HFW1100R-VF-IRE6	HAC-HFW1100R-VF	HAC-HDBW1100R-VF	HAC-HDW1100R-VF	HAC-HFW1100D	HAC-HFW1100B	HAC-HFW1100S	HAC-HFW1000S
								
Image Sensor	1/3" 1Mp CMOS	1/3" 1Mp CMOS	1/3" 1Mp CMOS	1/3" 1Mp CMOS	1/3" 1Mp CMOS	1/3" 1Mp CMOS	1/3" 1Mp CMOS	1/4" 1Mp CMOS
Min. Illumination	0.05Lux/F1.3 (Color) 0Lux/F1.3 (IR On)	0.05Lux/F1.3 (Color) 0Lux/F1.3 (IR On)	0.05Lux/F1.3 (Color) 0Lux/F1.3 (IR On)	0.05Lux/F1.3 (Color) 0Lux/F1.3 (IR On)	0.05Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.05Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.05Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.05Lux/F2.0 (Color) 0Lux/F2.0 (IR On)
Lens	2.7~13.5mm, Manual	2.7~13.5mm, Manual	2.7~13.5mm, Manual	2.7~13.5mm, Manual	3.6mm (6mm, 8mm Optional)	3.6mm (2.8mm, 6mm, 8mm Optional)	3.6mm (2.8mm, 6mm, Optional)	3.6mm (2.8mm Optional)
FOV-H	91°~24°	91°~24°	91°~24°	91°~24°	72.3°(46°/34.8°)	72.3°(91.6°/46°/34.8°)	72.3°(91.6°/46°)	60°(83.4°)
Day/Night	ICR	ICR	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	80m (262ft), Smart IR	50m (164ft), Smart IR	30m (98ft), Smart IR	30m (98ft), Smart IR
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
WDR	DWDR	DWDR	DWDR	DWDR	DWDR	DWDR	DWDR	DWDR
Noise Reduction	2D	2D	2D	2D	2D	2D	2D	2D
Frame Rate	30fps@720P	30fps@720P	30fps@720P	30fps@720P	30fps@720P	30fps@720P	30fps@720P	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	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°~87° Rotation: 0°~360°	Pan: 0°~355°; Tilt: 0°~75° Rotation: 0°~355°	Pan: 0°~360°; Tilt: 0°~90° 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, 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)	-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. 7W	DC12V±25% Max. 3W	DC12V±25% Max. 2.9W	DC12V±25% Max. 3W	DC12V±25% Max. 4.6W	DC12V±25% Max. 3.5W	DC12V±25% Max. 3.8W	DC12V±25% Max. 3.8W

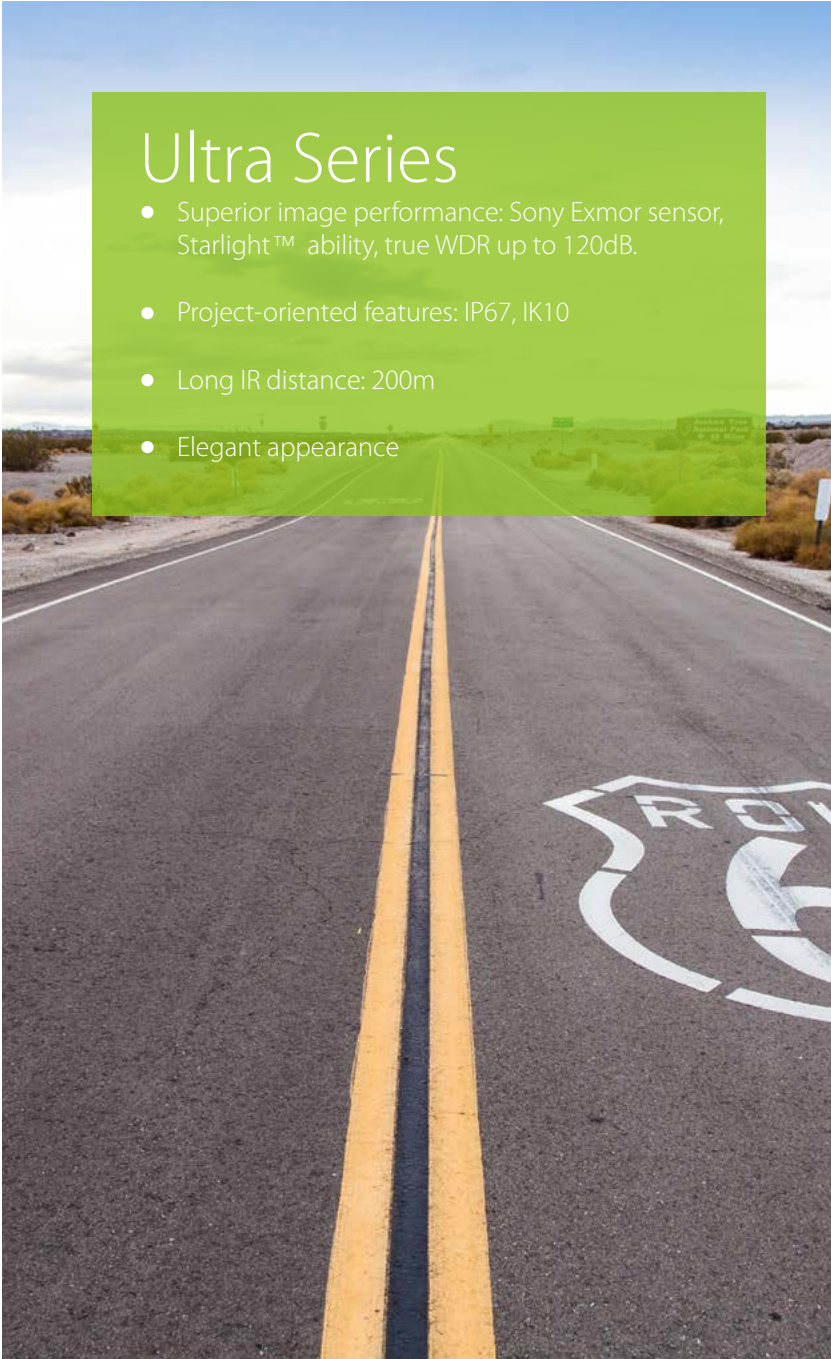
Lite Series						
720P						
Model	HAC-HFW1100SL	HAC-HFW1000SL	HAC-HFW1100RM	HAC-HFW1000RM	HAC-HFW1100R	HAC-HFW1000R
	 Cannon	 Cannon	 Cannon	 Cannon	 Cannon	 Cannon
Image Sensor	1/3" 1Mp CMOS	1/4" 1Mp CMOS	1/3" 1Mp CMOS	1/4" 1Mp CMOS	1/3" 1Mp CMOS	1/4" 1Mp CMOS
Min. Illumination	0.05Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.05Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.05Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.05Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.05Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.05Lux/F2.0 (Color) 0Lux/F2.0 (IR On)
Lens	3.6mm (2.8mm, 6mm Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm, 6mm, Optional)	3.6mm (2.8mm Optional)	3.6mm (2.8mm, 6mm, Optional)	3.6mm (2.8mm Optional)
FOV-H	72.3°(91.6°/46°)	60°(83.4°)	72.3°(91.6°/46°)	60°(83.4°)	72.3°(91.6°/46°)	60°(83.4°)
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR
Max. IR Distance	30m (98ft), Smart IR	30m (98ft), 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	30fps@720P	30fps@720P	30fps@720P	30fps@720P	30fps@720P	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±25% Max. 3.8W	DC12V±25% Max. 3.8W	DC12V±25% Max. 2.8W	DC12V±25% Max. 2.8W	DC12V±25% Max. 2.8W	DC12V±25% Max. 2.8W

Lite Series

	720P					
	HAC-HDBW1100E	HAC-HDW1100EM(-A)	HAC-HDW1100M	HAC-HDW1000M	HAC-HDW1100R	HAC-HDW1000R
Model	 Cannon	 Cannon	 Cannon	 Cannon	 Cannon	 Cannon
Image Sensor	1/3" 1Mp CMOS	1/3" 1Mp CMOS	1/3" 1Mp CMOS	1/4" 1Mp CMOS	1/3" 1Mp CMOS	1/4" 1Mp CMOS
Min. Illumination	0.05Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.05Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.05Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.05Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.05Lux/F2.0 (Color) 0Lux/F2.0 (IR On)	0.05Lux/F2.0 (Color) 0Lux/F2.0 (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, 6mm Optional)	3.6mm (2.8mm Optional)
FOV-H	72.3°(91.6°/46°)	72.3°(91.6°/46°)	72.3°(91.6°/46°)	60°(83.4°)	72.3°(91.6°/46°)	60°(83.4°)
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR
Max. IR Distance	30m (98ft), Smart IR	50m (164ft), Smart IR	30m (98ft), Smart IR	30m (98ft), 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	30fps@720P	30fps@720P	30fps@720P	30fps@720P	30fps@720P	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)	-	-	-	-
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°~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, IK10	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±25% Max. 2.4W	DC12V±25% Max. 2.9W	DC12V±25% Max. 2.8W	DC12V±25% Max. 2.8W	DC12V±25% Max. 2.8W	DC12V±25% Max. 2.8W



HDCVI PTZ CAMERA

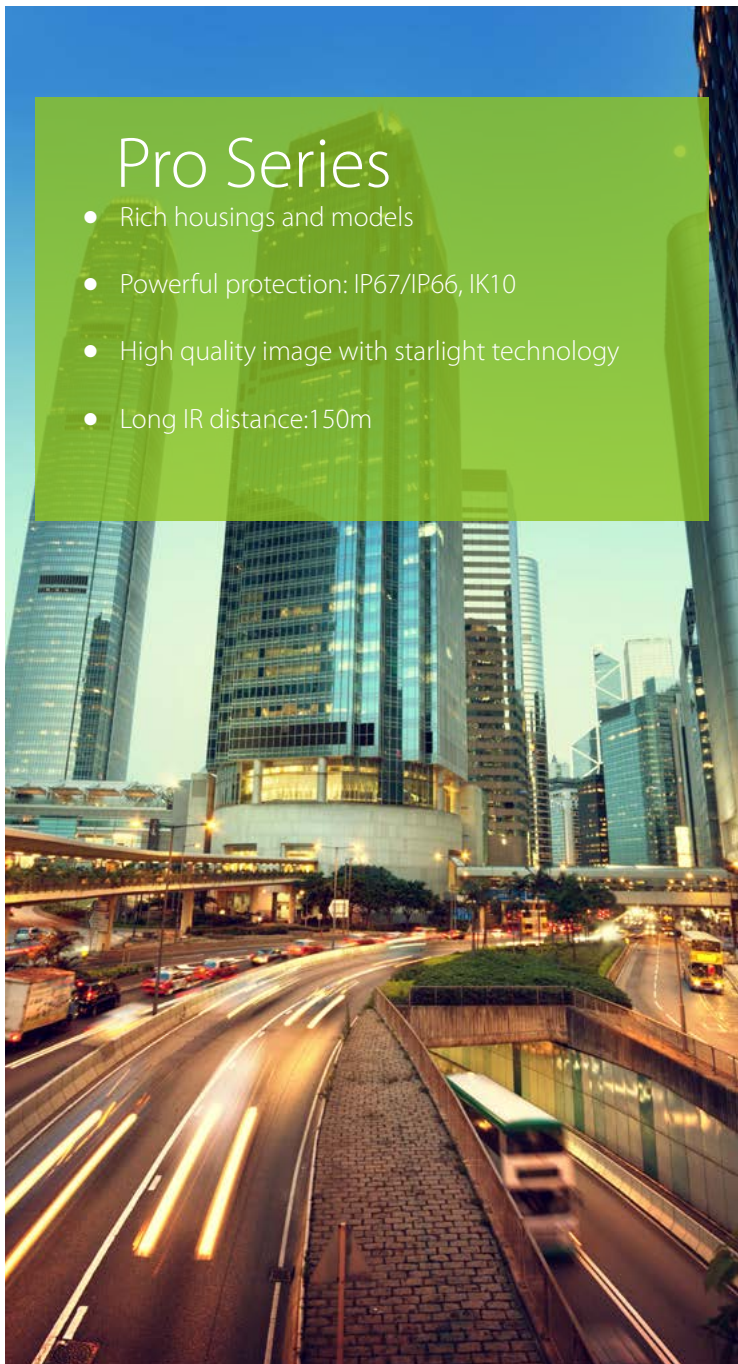




Ultra Series

- Superior image performance: Sony Exmor sensor, Starlight™ ability, true WDR up to 120dB.
- Project-oriented features: IP67, IK10
- Long IR distance: 200m
- Elegant appearance






Ultra Series		
	1080P	
	SD6AE230IA-HC	SD65F230IA-HC
Model	 starlight	 starlight
Image Sensor	1/1.9" 2Mp Exmor CMOS	1/1.9" 2Mp Exmor CMOS
Min. Illumination	0.002Lux/F1.6(Color) 0Lux/F1.6 (IR on)	0.002Lux/F1.6(Color) 0.0002Lux/F1.6 (B/W)
Lens	6~180mm (30x Optical zoom)	6~180mm (30x Optical zoom)
FOV-H	61.2° ~ 2.1°	61.2° ~ 2.1°
Day/Night	ICR	ICR
Max. IR Distance	200m(656ft)	-
OSD Menu	Support	Support
WDR	120dB True WDR	120dB True WDR
Noise Reduction	2D/3D	2D/3D
Frame Rate	30fps@1080P 30/60fps@720P	30fps@1080P 30/60fps@720P
Video Output	HD/SD Switchable	HD/SD Switchable
Pan/Tilt	Pan: 0° ~ 360° endless; Tilt: -20° ~ 90°	Pan: 0° ~ 360° endless; Tilt: -20° ~ 90°
Preset Speed	Pan: 240° /s Tilt: 200° /s	Pan: 600° /s Tilt: 500° /s
Audio In	1	1
Alarm In/Out	2/1	2/1
Ingress Protection	IP67,IK10	IP67,IK10
Working Temperature	-40°C~+70°C (-40°F~+158°F)	-40°C~+70°C (-40°F~+158°F)
Power	AC24V Max. 38W	AC24V Max. 20W



Pro Series

- Rich housings and models
- Powerful protection: IP67/IP66, IK10
- High quality image with starlight technology
- Long IR distance:150m

Pro Series

	4MP				
	SD6C430I-HC	SD60430I-HC	SD59430I-HC	SD50430I-HC	SD52C430I-HC
Model					
Image Sensor	1/3" 4Mp CMOS	1/3" 4Mp CMOS	1/3" 4Mp CMOS	1/3" 4Mp CMOS	1/3" 4Mp CMOS
Min. Illumination	0.05Lux/F1.6(Color) 0Lux/F1.6 (IR on)	0.05Lux/F1.6(Color) 0.005Lux/F1.6 (B/W)	0.05Lux/F1.6(Color) 0Lux/F1.6 (IR on)	0.05Lux/F1.6(Color) 0.005Lux/F1.6 (B/W)	0.05Lux/F1.6(Color) 0.005Lux/F1.6 (B/W)
Lens	4.5~135mm (30x Optical zoom)	4.5~135mm (30x Optical zoom)	4.5~135mm (30x Optical zoom)	4.5~135mm (30x Optical zoom)	4.5~135mm (30x Optical zoom)
FOV-H	H: 60° ~ 2.2°	60° ~ 2.2°	60° ~ 2.2°	60° ~ 2.2°	60° ~ 2.2°
Day/Night	ICR	ICR	ICR	ICR	ICR
Max. IR Distance	100m(328ft)	-	100m(328ft)	-	-
OSD Menu	Support	Support	Support	Support	Support
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@4M/1080P 30/60fps@720P	30fps@4M/1080P 30/60fps@720P	30fps@4M/1080P 30/60fps@720P	30fps@4M/1080P 30/60fps@720P	30fps@4M/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:-20° ~ 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: 240° /s; Tilt: 200° /s	Pan: 600° /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
Alarm In/Out	2/1	2/1	2/1	2/1	2/1
Ingress Protection	IP66	IP67, IK10	IP66	IP67, IK10	IK10
Working Temperature	-40°C~+60°C (-40°F~+140°F)	-40°C~+70°C (-40°F~+158°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	AC24V Max. 26W	AC24V Max. 20W	AC24V Max. 25W	AC24V Max. 23W	AC24V Max. 13W

HDCVI PTZ CAMERA

Pro Series								
1080P								
Model	SD6C230I-HC	SD6C225I-HC	SD60230I-HC	SD60225I-HC	SD59230I-HC	SD59225I-HC	SD50230I-HC	SD50225I-HC
	 starlight	 starlight	 starlight	 starlight	 starlight	 starlight	 starlight	 starlight
Image Sensor	1/2.8" 2Mp Exmor R CMOS	1/2.8" 2Mp Exmor R CMOS	1/2.8" 2Mp Exmor R CMOS	1/2.8" 2Mp Exmor R CMOS	1/2.8" 2Mp Exmor R CMOS	1/2.8" 2Mp Exmor R CMOS	1/2.8" 2Mp Exmor R CMOS	1/2.8" 2Mp Exmor R CMOS
Min. Illumination	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR on)	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) 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	4.5~135mm (30x Optical zoom)	4.8~120mm (25x Optical zoom)	4.5~135mm (30x Optical zoom)	4.8~120mm (25x Optical zoom)	4.5~135mm (30x Optical zoom)	4.8~120mm (25x Optical zoom)	4.5~135mm (30x Optical zoom)	4.8~120mm (25x Optical zoom)
FOV-H	67.8° ~ 2.4°	59.2° ~ 2.4°	67.8° ~ 2.4°	59.2° ~ 2.4°	67.8° ~ 2.4°	59.2° ~ 2.4°	67.8° ~ 2.4°	59.2° ~ 2.4°
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR	ICR	ICR
Max. IR Distance	150m(492ft)	150m(492ft)	-	-	150m(492ft)	150m(492ft)	-	-
OSD Menu	Support	Support	Support	Support	Support	Support	Support	Support
WDR	120dB True WDR	120dB True 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	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	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
Pan/Tilt	Pan: 0° ~ 360° endless Tilt: -15° ~ 90°	Pan: 0° ~ 360° endless; Tilt: -15° ~ 90°	Pan: 0° ~ 360° endless; Tilt: -20° ~ 90°	Pan: 0° ~ 360° endless; Tilt: -20° ~ 90°	Pan: 0° ~ 360° endless; Tilt: -15° ~ 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: 240°/s Tilt: 200°/s	Pan: 240° /s Tilt: 200° /s	Pan: 600°/s Tilt: 500°/s	Pan: 600°/s Tilt: 500°/s	Pan: 400°/s Tilt: 300°/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	1	1
Alarm In/Out	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1
Ingress Protection	IP66	IP66	IP67, IK10	IP67, IK10	IP66	IP66	IP67, IK10	IP67, IK10
Working Temperature	-40°C ~ +60°C (-40°F ~ +140°F)	-40°C ~ +60°C (-40°F ~ +140°F)	-40°C ~ +70°C (-40°F ~ +158°F)	-40°C ~ +70°C (-40°F ~ +158°F)	-40°C ~ +70°C (-40°F ~ +158°F)	-40°C ~ +70°C (-40°F ~ +158°F)	-40°C ~ +60°C (-40°F ~ +140°F)	-40°C ~ +60°C (-40°F ~ +140°F)
Power	AC24V Max. 26W	AC24V Max. 26W	AC24V Max. 20W	AC24V Max. 20W	AC24V Max. 25W	AC24V Max. 25W	AC24V Max. 23W	AC24V Max. 23W

Pro Series							
	1080P		720P				
Model	SD52C230I-HC	SD52C225I-HC	SD6C131I-HC	SD60131I-HC	SD59131I-HC	SD50131I-HC	SD52C131I-HC
	 starlight	 starlight	 starlight	 starlight	 starlight	 starlight	 starlight
Image Sensor	1/2.8" 2Mp Exmor R CMOS	1/2.8" 2Mp Exmor R CMOS	1/2.8" Exmor R CMOS	1/2.8" Exmor R CMOS	1/2.8" Exmor R CMOS	1/2.8" Exmor R CMOS	1/2.8" Exmor R CMOS
Min. Illumination	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) 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	4.5~135mm (30x Optical zoom)	4.8~120mm (25x Optical zoom)	4.8~150mm (31x Optical zoom)	4.8~150mm (31x Optical zoom)	4.8~150mm (31x Optical zoom)	4.8~150mm (31x Optical zoom)	4.8~150mm (31x Optical zoom)
FOV-H	67.8° ~ 2.4°	59.2° ~ 2.4°	58.3° ~ 1.9°	58.3° ~ 1.9°	58.3° ~ 1.9°	58.3° ~ 1.9°	58.3° ~ 1.9°
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR	ICR
Max. IR Distance	-	-	150m(492ft)	-	150m(492ft)	-	-
OSD Menu	Support	Support	Support	Support	Support	Support	Support
WDR	120dB True 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	2D/3D
Frame Rate	30fps@1080P 30/60fps@720P	30fps@1080P 30/60fps@720P	30/60fps@720P	30/60fps@720P	30/60fps@720P	30/60fps@720P	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
Pan/Tilt	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:-20° ~ 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: 500°/s Tilt: 500°/s	Pan: 500°/s Tilt: 500°/s	Pan: 240° /s Tilt: 200° /s	Pan: 600°/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	1
Alarm In/Out	2/1	2/1	2/1	2/1	2/1	2/1	2/1
Ingress Protection	IK10	IK10	IP66	IP67, IK10	IP66	IP67, IK10	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 ~ +70°C (-40°F ~ +158°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	AC24V Max. 13W	AC24V Max. 13W	AC24V Max. 26W	AC24V Max. 20W	AC24V Max. 25W	AC24V Max. 23W	AC24V Max. 13W



HDCVI PTZ CAMERA






Lite Series

- Max.31x optical zoom PTZ brings more benefits
- Compact design
- Mini IR PTZ camera
- Competitive price



Lite Series

	1080P	
	SD49225I-HC	SD49212I-HC
Model	 starlight	 starlight
Image Sensor	1/2.8" 2Mp Exmor R CMOS	1/2.8" 2Mp Exmor R CMOS
Min. Illumination	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR on)	0.005Lux/F1.6(Color) 0Lux/F1.6(IR on)
Lens	4.8~120mm (25x Optical zoom)	5.3~64.0mm (12x Optical zoom)
FOV-H	59.2° ~ 2.4°	H: 58.4° ~ 4.9°
Day/Night	ICR	ICR
Max. IR Distance	100m(328ft)	100m(328ft)
OSD Menu	Support	Support
WDR	120dB True WDR	120dB True WDR
Noise Reduction	2D/3D	2D/3D
Frame Rate	30fps@1080P 30/60fps@720P	30fps@1080P 30/60fps@720P
Video Output	HD/SD Switchable	HD/SD Switchable
Pan/Tilt	Pan: 0° ~ 360° endless Tilt: -15° ~ 90°	Pan: 0° ~ 360° endless Tilt: -15° ~ 90°
Preset Speed	Pan: 240°/s Tilt: 200°/s	Pan: 240°/s Tilt: 200°/s
Audio In	1	1
Alarm In/Out	2/1	2/1
Ingress Protection	IP66	IP66
Working Temperature	-40°C ~ +70°C (-40°F ~ +158°F)	-40°C ~ +70°C (-40°F ~ +158°F)
Power	DC12V Max. 20W	DC12V Max. 20W

Lite Series					
	1080P				720P
Model	SD40212I-HC	SD42212I-HC	SD42C212I-HC	SD22204I-GC	SD49131I-HC
					 starlight
Image Sensor	1/2.8" 2Mp Exmor CMOS	1/2.8" 2Mp Exmor CMOS	1/2.8" 2Mp Exmor CMOS	1/2.7" 2Mp CMOS	1/2.8" Exmor R CMOS
Min. Illumination	0.05Lux/F1.6 (Color) 0.005Lux/F1.6 (B/W)	0.05Lux/F1.6 (Color) 0.005Lux/F1.6 (B/W)	0.05Lux/F1.6 (Color) 0.005Lux/F1.6 (B/W)	0.05Lux/F1.6 (Color) 0.005Lux/F1.6 (B/W)	0.005Lux/F1.6(Color) 0Lux/F1.6 (IR on)
Lens	5.1 mm~61.2mm (12x Optical zoom)	5.1 mm~61.2mm (12x Optical zoom)	5.1 mm~61.2mm (12x Optical zoom)	2.7~11mm (4x Optical zoom)	4.8~150mm(31x Optical zoom)
FOV-H	51.3° ~ 4.6°	51.3° ~ 4.6°	51.3° ~ 4.6°	112.5° ~ 39°	58.3° ~ 1.9°
Day/Night	ICR	ICR	ICR	ICR	ICR
Max. IR Distance	-	-	-	-	100m(328ft)
OSD Menu	Support	Support	Support	Support	Support
WDR	DWDR	DWDR	DWDR	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	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: -2° ~ 90°	Pan: 0° ~ 360° endless Tilt: -2° ~ 90°	Pan: 0° ~ 360° endless Tilt: -2° ~ 90°	Pan: 0° ~ 355° Tilt: 0° ~ 90°	Pan: 0° ~ 360° endless Tilt: -15° ~ 90°"
Preset Speed	Pan: 300°/s Tilt: 200°/s	Pan: 300°/s Tilt: 200°/s	Pan: 300°/s Tilt: 200°/s	Pan: 100°/s Tilt: 60°/s	Pan: 240° /s Tilt: 200° /s
Audio In	1	1	1	--	1
Alarm In/Out	2/1	2/1	2/1	--	2/1
Ingress Protection	IP66, IK10	IP66, IK10	IK10	IP66, IK10	IP66
Working Temperature	-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)	-40°C~+70°C (-40°F~+158°F)
Power	AC24V Max. 19W	AC24V Max. 10W	AC24V Max. 10W	DC12V Max. 10W	DC12V Max. 20W

HDCVI RECORDER





Ultra Series

- Powerful Intel Multi-core CPU features perfect processing capability
- Full 1080P real-time recording each channel
- XVR8000 Series: HDCVI/AHD/TVI/CVBS self-adaptive, Up to 4MP recording
- Advanced intelligent functions: Smart Tracking/People Counting
- Powerful network performance, up to 64 channels IP input






Ultra Series








	8 HDD			
	XVR8816S	XVR8808S	HCVR8816S-URH-S3	HCVR8808S-URH-S3
Model				
Video Compression	H.264+ / H.264	H.264+ / H.264	H.264+ / H.264	H.264+ / H.264
Audio Compression	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	HDCVI/AHD/CVBS
Max. Record Rate	240fps@4MP 480fps@1080P	120fps@4MP 240fps@1080P	480fps@1080P 480fps@720P	240fps@1080P 240fps@720P
CVBS Input	16CH,1.0Vp-p,75Ω	8CH,1.0Vp-p,75Ω	16CH,1.0Vp-p,75Ω	8CH,1.0Vp-p,75Ω
Loop Out	Yes	Yes	-	-
IP Camera Input	16+48 Up to 12MP	8+56 Up to 12MP	16+48 Up to 12MP	8+56 Up to 12MP
Max IP Input/Record	256Mbps/256Mbps	256Mbps/256Mbps	200Mbps/200Mbps	200Mbps/200Mbps
Audio In/out	16/1, 2-way	8/1, 2-way	16/1, 2-way	8/1, 2-way
Max HDD	8x8TB	8x8TB	8x8TB	8x8TB
Display	2HDMI,VGA,TV	2HDMI,VGA,TV	2HDMI,VGA,TV	2HDMI,VGA,TV
eSATA	1	1	1	1
USB	2 USB3.0, 2 USB2.0	2 USB3.0, 2 USB2.0	2 USB3.0, 2 USB2.0	2 USB3.0, 2 USB2.0
DVD Burner	USB/SATA	USB/SATA	USB/SATA	USB/SATA
Alarm In/Out	16/6	16/6	16/6	16/6
Ethernet	2 Gigabit ports	2 Gigabit ports	2 Gigabit ports	2 Gigabit ports
Remote User Login	128	128	128	128
Dimensions	440x455x95mm (17.3"x17.9"x3.7")	440x455x95mm (17.3"x17.9"x3.7")	440x455x95mm (17.3"x17.9"x3.7")	440x455x95mm (17.3"x17.9"x3.7")
Power	AC100-240V, 50/60Hz, ≤40W(Without HDD)	AC100-240V, 50/60Hz, ≤40W(Without HDD)	AC100-240V, 50/60Hz, ≤40W(Without HDD)	AC100-240V, 50/60Hz, ≤40W(Without HDD)
Intelligent Video	Tripwire, Intrusion, Abandoned/Missing, Scene Change, Face Detection	Tripwire, Intrusion, Abandoned/Missing, Scene Change, Face Detection	Tripwire, Intrusion, Abandoned/Missing, Scene Change, Face Detection	Tripwire, Intrusion, Abandoned/Missing, Scene Change, Face Detection
Star Features	Smart Tracking/ People Counting	Smart Tracking/ People Counting	Smart Tracking/ People Counting	Smart Tracking/ People Counting



Pro Series

- Perfect image quality and performance
- HCVR7000-4M: Up to 4MP recording
- XVR7000 Series: HDCVI/AHD/TVI/CVBS self-adaptive, Up to 1080P recording
- High standard hardware
- Powerful network performance, up to 5MP input




Pro Series			
	2 HDD		
	HCVR7216AN-4M	HCVR7208AN-4M	HCVR7204AN-4M
Model			
Video Compression	H.264+/H.264	H.264+/H.264	H.264+/H.264
Audio Compression	G.711/PCM	G.711/PCM	G.711/PCM
Video Standard	HDCVI/CVBS	HDCVI/CVBS	HDCVI/CVBS
Max. Record Rate	240fps@4MP 480fps@1080P	120fps@4MP 240fps@1080P	60fps@4MP 120fps@1080P
CVBS Input	16CH, 1.0Vp-p, 75Ω	8CH, 1.0Vp-p, 75Ω	4CH, 1.0Vp-p, 75Ω
IP Camera Input	16+8 Up to 5MP	8+4 Up to 5MP	4+2 Up to 5MP
Max IP Input/Record	96Mbps/96Mbps	48Mbps/48Mbps	24Mbps/24Mbps
Audio In/out	1/1, 2-way	1/1, 2-way	1/1, 2-way
Max HDD	2×6TB	2×6TB	2×6TB
Display	HDMI,VGA,SPOT (configurable)	HDMI,VGA,SPOT (configurable)	HDMI,VGA,SPOT (configurable)
eSATA	-	-	-
USB	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0
DVD Burner	USB	USB	USB
Alarm In/Out	-	-	-
Ethernet	1 Gigabit port	1 Gigabit port	1 Gigabit port
Remote User Login	128	128	128
Dimensions	375×287×53mm (14.8"×11.3"×2.1")	375×287×53mm (14.8"×11.3"×2.1")	375×287×53mm (14.8"×11.3"×2.1")
Power	DC12V/5A, ≤15W(Without HDD)	DC12V/4A, ≤15W(Without HDD)	DC12V/4A, ≤15W(Without HDD)
Intelligent Video	Tripwire, Intrusion, Abandoned/Missing, Face Detection	Tripwire, Intrusion, Abandoned/Missing, Face Detection	Tripwire, Intrusion, Abandoned/Missing, Face Detection
Star Features	Smart play, P2P, Coaxial upgrade, 2D/3DNR,UTP	Smart play, P2P, Coaxial upgrade, 2D/3DNR,UTP	Smart play, P2P, Coaxial upgrade, 2D/3DNR,UTP

Pro Series							
	1 HDD			8 HDD		4HDD	
	HCVR7116H-4M	HCVR7108H-4M	HCVR7104H-4M	XVR7816S	XVR7808S	XVR7416L	XVR7408L
Model							
Video Compression	H.264+/H.264	H.264+/H.264	H.264+/H.264	H.264+/H.264	H.264+/H.264	H.264+/H.264	H.264+/H.264
Audio Compression	G.711/PCM	G.711/PCM	G.711/PCM	G.711/PCM	G.711/PCM	G.711/PCM	G.711/PCM
Video Standard	HDCVI/CVBS	HDCVI/CVBS	HDCVI/CVBS	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. Record Rate	240fps@4MP 480fps@1080P	120fps@4MP 240fps@1080P	60fps@4MP 120fps@1080P	480fps@1080P 480fps@720P	240fps@1080P 240fps@720P	480fps@1080P 480fps@720P	240fps@1080P 240fps@720P
CVBS Input	16CH, 1.0Vp-p, 75Ω	8CH, 1.0Vp-p, 75Ω	4CH, 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+8 Up to 5MP	8+4 Up to 5MP	4+2 Up to 5MP	16+8 Up to 5MP	8+4 Up to 5MP	16+8 Up to 5MP	8+4 Up to 5MP
Max IP Input/Record	96Mbps/96Mbps	48Mbps/48Mbps	24Mbps/24Mbps	96Mbps/96Mbps	48Mbps/48Mbps	96Mbps/96Mbps	48Mbps/48Mbps
Audio In/out	1/1, 2-way	1/1, 2-way	1/1, 2-way	16/1, 2-way	8/1, 2-way	4/1, 2-way	4/1, 2-way
Max HDD	1x6TB	1x6TB	1x6TB	8x8TB	8x8TB	4x8TB	4x8TB
Display	HDMI,VGA,SPOT (configurable)	HDMI,VGA,SPOT (configurable)	HDMI,VGA,SPOT (configurable)	2HDMI,VGA,TV	2HDMI,VGA,TV	2HDMI,VGA,TV	2HDMI,VGA,TV
eSATA	-	-	-	1	1	1	1
USB	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0	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
DVD Burner	USB	USB	USB	USB/SATA	USB/SATA	USB/SATA	USB/SATA
Alarm In/Out	-	-	-	16/6	16/6	16/6	16/6
Ethernet	1 Gigabit port	1 Gigabit port	1 Gigabit port	2 Gigabit ports	2 Gigabit ports	1 Gigabit port	1 Gigabit port
Remote User Login	128	128	128	128	128	128	128
Dimensions	325x255x55mm (12.8"x10.0"x2.2")	325x255x55mm (12.8"x10.0"x2.2")	325x255x55mm (12.8"x10.0"x2.2")	440x455x95mm (17.3"x17.9"x3.7")	440x455x95mm (17.3"x17.9"x3.7")	440x417x76mm (17.3"x16.4"x3.0")	440x417x76mm (17.3"x16.4"x3.0")
Power	DC12V/3A, ≤15W(Without HDD)	DC12V/2A, ≤15W(Without HDD)	DC12V/2A, ≤15W(Without HDD)	AC 100-240V,50/60Hz, ≤40W(Without HDD)	AC 100-240V,50/60Hz, ≤40W(Without HDD)	AC 100-240V,50/60Hz, ≤40W(Without HDD)	AC 100-240V,50/60Hz, ≤40W(Without HDD)
Intelligent Video	Tripwire, Intrusion, Abandoned/Missing, Face Detection	Tripwire, Intrusion, Abandoned/Missing, Face Detection	Tripwire, Intrusion, Abandoned/Missing, Face Detection	Tripwire, Intrusion, Abandoned/Missing, Face Detection	Tripwire, Intrusion, Abandoned/Missing, Face Detection	Tripwire, Intrusion, Abandoned/Missing, Face Detection	Tripwire, Intrusion, Abandoned/Missing, Face Detection
Star Features	Smart play, P2P, Coaxial upgrade, 2D/3DNR, UTP	Smart play, P2P, Coaxial upgrade, 2D/3DNR, UTP	Smart play, P2P, Coaxial upgrade, 2D/3DNR, UTP	Smart play, P2P, 2D/3DNR, UTP	Smart play, P2P, 2D/3DNR, UTP	Smart play, P2P, 2D/3DNR, UTP	Smart play, P2P, 2D/3DNR, UTP



Lite Series

- High performance
- Penta-brid: Support HDCVI/AHD/TVI/CVBS/IP video inputs
- XVR5000 Series: Up to 1080P recording
- XVR4000 Series: Up to 1080N/720P recording
- Easy operation with friendly interface

Lite Series			
	8 HDD		
	XVR5832S	XVR5816S	XVR5808S
Model			
Video Compression	H.264+/H.264	H.264+/H.264	H.264+/H.264
Audio Compression	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)
Max. Record Rate	480fps@1080P 960fps@720P	240fps@1080P 480fps@720P	120fps@1080P 240fps@720P
CVBS Input	32CH,1.0Vp-p,75Ω	16CH,1.0Vp-p,75Ω	8CH,1.0Vp-p,75Ω
IP Camera Input	16 Up to 5MP	16+8 Up to 5MP	8+4 Up to 5MP
Max IP Input/Record	64Mbps/64Mbps	96Mbps/96Mbps	48Mbps/48Mbps
Audio In/out	16/1, 2-way	16/1, 2-way	8/1, 2-way
Max HDD	8×8TB	8×8TB	8×8TB
Display	2HDMI,VGA,TV	2HDMI,VGA,TV	HDMI,VGA,TV
eSATA	1	1	1
USB	2 USB3.0, 2 USB2.0	2 USB3.0, 2 USB2.0	2 USB3.0, 2 USB2.0
DVD Burner	USB/SATA	USB/SATA	USB/SATA
Alarm In/Out	16/6	16/6	8/6
Ethernet	2 Gigabit ports	2 Gigabit ports	1 Gigabit ports
Remote User Login	128	128	128
Dimensions	440×455×95mm (17.3"×17.9"×3.7")	440×455×95mm (17.3"×17.9"×3.7")	440×455×95mm (17.3"×17.9"×3.7")
Power	AC 100-240V,50/60Hz, ≤40W (Without HDD)	AC 100-240V,50/60Hz, ≤40W (Without HDD)	AC 100-240V,50/60Hz, ≤40W (Without HDD)
Intelligent Video	Tripwire,Intrusion, Abandoned/Missing, Face Detection	Tripwire,Intrusion, Abandoned/Missing, Face Detection	Tripwire,Intrusion, Abandoned/Missing, Face Detection
Star Features	Smart play, P2P, 2D/3DNR, UTP	Smart play, P2P, 2D/3DNR, UTP	Smart play, P2P, 2D/3DNR, UTP

ACCESSORIES



ACCESSORIES

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

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

HFWxxR-VF/Z, HFWxxB, HFWxxD Series		
		
Model	PFA135	PFA135+PFA150
Mount	Junction box	Pole mount

HFWxxS, HFWxxSL, HFWxxR, HFWxxRM, HFWxxT Series		
		
Model	PFA134	PFA134+PFA150
Mount	Junction box	Pole mount

HDBW3231E-Z					
					
Model	PFA138	PFA101+PFB302S	PFA101+PFB302S+PFA152	PFA101+PFB300C	PFB201C
Mount	Junction box	Wall mount	Pole mount	Ceiling mount	In-ceiling mount




HDBWxxR-Z/VF series				
				
Model	PFA137	PFB203W	PFB203W+PFA152	PFB200C
Mount	Junction box	Wall mount	Pole mount	In-ceiling mount

HDWxxR-Z Series			
			
Model	PFA137	PFB203W	PFB203W+PFA152
Mount	Junction box	Wall mount	Pole mount

HDBWxxE, HDWxxE, HDWxxS Series			
			
Model	PFA136	PFB203W	PFB203W+PFA152
Mount	Junction box	Wall mount	Pole mount

HDWxxR-VF Series			
			
Model	PFA13B	PFB204W	PFB204W+PFA152
Mount	Junction box	Wall mount	Pole mount

HDWxxM Series			
			
Model	PFA13A	PFB204W	PFB204W+PFA152
Mount	Junction box	Wall mount	Pole mount

HDWxxR Series		
		
Model	PFA122	PFA122+PFA152
Mount	Junction box	Pole mount

HDWxxEM, HDBWxxF Series			
			
Model	PFA139	PFB204W	PFB204W+PFA152
Mount	Junction box	Wall mount	Pole mount

EB series		
		
Model	PFB203W	PFB203W+PFA152
Mount	Wall mount	Pole mount

ACCESSORIES

SD65F/60/6AE Series							
							
Model	PFA111+PFB303W	PFA111+PFB303W+PFA120	PFA111+PFB300C	PFA150	PFA151	PFA140	PFA111+PFB303S
Mount	Wall mount	Junction box	Ceiling mount	Pole mount	Corner mount	Power box	Parapet mount

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

SD6C Series							
							
Model	64FB	PFA114+PFB300C	PFA150	PFA151	PFA140	PFA114+PFB303S	
Mount	Wall mount	Ceiling mount	Pole mount	Corner mount	Power box	Parapet 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

SD42 Series


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

SD22 Series

				
Model	PFA137	PFB202W	PFB202W+PFA152	PFB200C
Mount	Junction box	Wall mount	Pole mount	In-ceiling mount

Housing					Lens		
Model	PFH610N/V/A	PFH610N/V/A-H	PFH610N/V/A-IR	PFH610L/L-H	PLZ1040-D	PLZ1140-D	PLF20C0-D
Appearance							
Description	Aluminum & PC N/A IP67/IP67&IK10/IP67&IK10&NEMA 4X DC12V/AC24V in 404.0x163.8x132.1mm (15.9"x6.45"x5.2")	Aluminum & PC Heater, cooler IP67/IP67&IK10/IP67&IK10&NEMA 4X AC24V, 3A in 404.0x163.8x132.1mm (15.9"x6.45"x5.2")	Aluminum & PC Heater, cooler, IR IP67/IP67&IK10/IP67&IK10&NEMA 4X AC24V, 5A in 404.0x163.8x132.1mm (15.9"x6.45"x5.2")	Aluminum & PC N/A & heater, cooler IK10, IP67 DC12V/ AC24V in 425x163.8x132.1mm (16.73"x6.45"x5.2")	Image size: 1/2.7" Aperture: F1.6 Focus length: 2.7-12mm Mount: CS Resolution: 4MP	Image size: 1/2.7" Aperture: F1.6 Focus length: 5-50mm Mount: CS Resolution: 4MP	Image size: 1/1.7" Aperture: F2.0 Focus length: 3.2mm Mount: CS Resolution: 12MP 168° ultra-wide field angle

Power Supply						Tool		UTC	
Model	AC Power	DC Power		PFM34x Series	PFM350 Series	PFM351 Series	PFM900	PFM905	PFM820
Appearance									
Description	AC24V, 1.5/3/5A L1500±100mm	DC12V, 1A 84x41x26mm (3.31"x1.16"x1.02")	DC12V 2.8A 148x70x31mm (5.83"x2.76"x1.22")	CCTV Distributed Power Supply 5/ 9 Channel AC90~264V input DC12V, 4A/5A output	Uninterruptible Power Supply Line-Interactive 600VA/360W, 1500VA/900W 2-6ms transfer time	Uninterruptible Power Supply Smart Online 1000VA/900W 0ms transfer time	Integrated Mount Tester For IPC, HDCVI, Analog camera TDR, record, playback etc.	Integrated Mount Tester For HDCVI, AHD, TVI, CVBS analog camera Record, playback, etc.	Support different formats (HDCVI/AHD/ TVI/CVBS) switch

Balun					POC	Pickup	
Model	PFM800	PFM801	PFM809-4CH	PFM809	PFM810	PFM140	PFM141
Appearance							
Description	Passive HDCVI Balun Transmission distance: 720P: max.450m(1476.4ft) 1080P: max.300m(984.3ft) Cable type: CAT 5E/6 (R<10Ω/100m)	Passive HDCVI Balun With Power Input: DC24-36V Output: max.DC12V 8W Transmission distance: max.300m(984.3ft) Cable type: CAT 5E/6 (R<10Ω/100m)	4 Channel Passive HDCVI Balun Receiver Transmission distance: 0-400m(0-1312.34ft) (with passive transmitter) Cable type: CAT 5E/6 (R<10Ω/100m)	16Channel Passive HDCVI Balun Receiver Transmission distance: 0-450m(0-1476.4ft) (with passive transmitter) Cable type: CAT 5E/6 (R<10Ω/100m)	POC Transceiver Input: DC24-36V Output: max.DC12V 9W Transmission distance: max.400m(1312.3ft) Cable type: RG59/6	Pinhole Pickup Input DC12V Scope: 5-40m² Sensitivity:-40dB 63x30x22mm (2.48"x1.18"x0.87")	Hi-fidelity Pickup Input DC12V Scope: 5-100m² Sensitivity:-32dB 78x78x26mm (3.1"x3.1"x1.0")

Optical Transceiver

Model	OTC102T/R	PFO2410T/R	PFO2810T/R	PFO2910T/R
Appearance				
Description	<ul style="list-style-type: none"> • 1ch HDCVI Optical Transceiver • Lossless non-compression real-time transmission • FC, Single-mode, 20km • Support 720P/1080P 	<ul style="list-style-type: none"> • 4ch HDCVI Optical Transceiver • Lossless non-compression real-time transmission • FC, Single-mode, 20km • Support 720P/1080P 	<ul style="list-style-type: none"> • 8ch HDCVI Optical Transceiver • Lossless non-compression real-time transmission • FC, Single-mode, 20km • Support 720P/1080P 	<ul style="list-style-type: none"> • 16ch HDCVI Optical Transceiver • Lossless non-compression real-time transmission • LC, Single-mode, 20km • Support 720P/1080P

Converter

Model	TP2105	PFT2100	TP2600	PFT2690
Appearance				
Description	<ul style="list-style-type: none"> • Input :720P/1080P HDCVI signal • Output: HDCVI, HDMI, VGA, CVBS • Support RS485 to control PTZ 	<ul style="list-style-type: none"> • Input :HDMI video signal • Output: HDCVI signal 	<ul style="list-style-type: none"> • 1 in/3 out • 720P/1080P self-adaptive • Work as a repeater to increase the transmission distance 	<ul style="list-style-type: none"> • 16-ch HDCVI input, 32-ch output, each input is corresponding to 2 outputs • 720P/1080P self-adaptive • Compatible CVBS, AHD, HDTV signal distribution

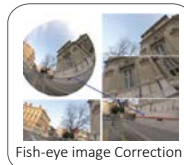
Monitor

Model	LM18-L100	DHL22-F600	DHL55-4K
Appearance			
Description	<ul style="list-style-type: none"> • Built-in 3D DNR • Support 1ch audio input • 1366×768 resolution • Angle of view: 178°/178° • Interfaces: VGA(D-Sub)×1, HDMI×1, BNC×1, built-in speaker 	<ul style="list-style-type: none"> • Built-in 3D DNR • Support 1ch audio input • 1920×1080 resolution • Angle of view: 130°/178° • Interfaces: VGA(D-Sub)×1, HDMI×1, built-in speaker 	<ul style="list-style-type: none"> • Built-in 3D DNR • Support 1ch audio input • 3840 ×2160 resolution • Angle of view: 178°/178° • Interfaces: VGA(D-Sub)×1, DVI-D×1, HDMI×2, USB×1

Smart PSS

Smart Professional Surveillance System

Dahua Security Management Platform



Supported OS	Windows/Mac OSX
Supported Devices	CCTV/VDP/ACS
Number of Devices	256
Number of Channels	2000
Number of Screens	4
Recording Channels	32
Languages	35
Supported VTO	100
Supported VTH	10000
Supported Access Controllers	100
Supported Doors	1000
Basic Functions	Preview, Record, Playback, Export, Snapshot, Instant playback
Smart Features	Fisheye correction, People counting, Smart search, E-Map, E-PTZ, Smart Track, IVS, Face Detection
Smart Building	Video Intercom, Access Control, Attendance

DMSS

Digital Mobile Surveillance System

Monitor Anything with Your SmartPhone or Tablet Anytime, Anywhere



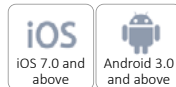
Devices	Supported Devices	DVR, NVR, IPC, VTO
	Add Device Method	IP/domain, SN, Import from cloud
	Features	Remote config, Alarm config, HDD info, Share device list
Video	Compression Format	H.265/H.264/MPEG-4/JPEG
	Display Resolution	Up to 1920 x 1080
Live Preview	Max. Channels Can Be Opened at The Same Time	256
	Features	Snapshot, Record, Instant playback, PTZ, Stream control, Talk, Audio, Alarm, Color, Favorites, Remember channels
Playback	Time Period of Video Playback	72 hours
	Features	Snapshot, Record, Faster/slower play, Play next frame, Cut
Alarm Push	Alarm Type	Motion detect, Camera masking, Local alarm, Disk alarm(no disk, Low space, disk Error), Face detection, Ivs alarm
	Push Type	Video, Preview, Image

Easy4ip Cloud

The most user-friendly surveillance cloud platform



Easy4ip is a new video management system drawing on cloud computing technology since Dahua has started transitioning its traditional video management system from physical servers to clouds. Easy4ip connects millions of devices including camera, doorbell, and alarms etc., into a single global cloud network. It has been widely used in video surveillance, smart home, smart building and education. Easy4ip supports services like live streaming, broadcasting, video on demand, cloud storage, cloud-based device upgrade, alarm notification and video analytics etc. Easy4ip is also an open system. Dahua provides SDK to device developers and system integrators to create their own video system based on Easy4ip.



Live streaming from mobile device or PC
Monitor anytime, anywhere



Cloud upgrade
Upgrade device firmware remotely, keeping devices up-to-date



Cloud Storage
Alarm video stored in the cloud, not miss any precious moment



Alarm notification
Aware of what's happening in home or store anytime, anywhere



Global server coverage
Hybrid cloud, including Amazon, Azure etc., fast and stable



Security
Several security policies to secure your personal data

DORI Distance (D/O/R/I)

Find the Optimal Camera for Your Individual Surveillance Needs

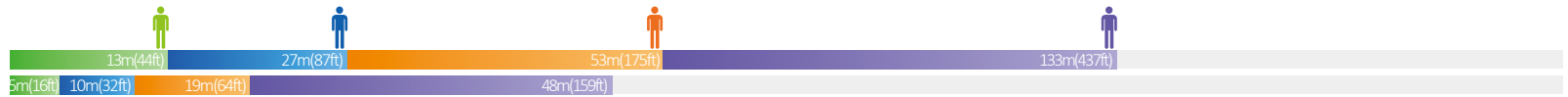
The DORI distance is a “general proximity” of distance which makes it easy to pinpoint the right camera for your needs. The DORI distance is calculated based on sensor specification and lab test result according to EN 62676-4 which defines the criteria for Detect, Observe, Recognize and Identify respectively.

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

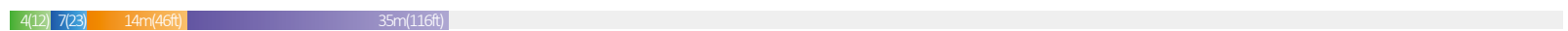
HDCVI CAMERA

Ultra Series

3231 Series 2.7~12mm(T)
2.7~12mm(W)

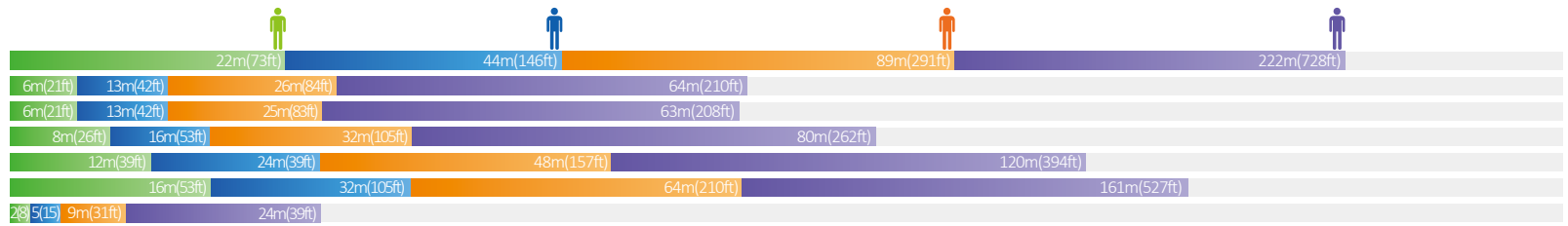


3100 Series 3.6mm (Pinhole)



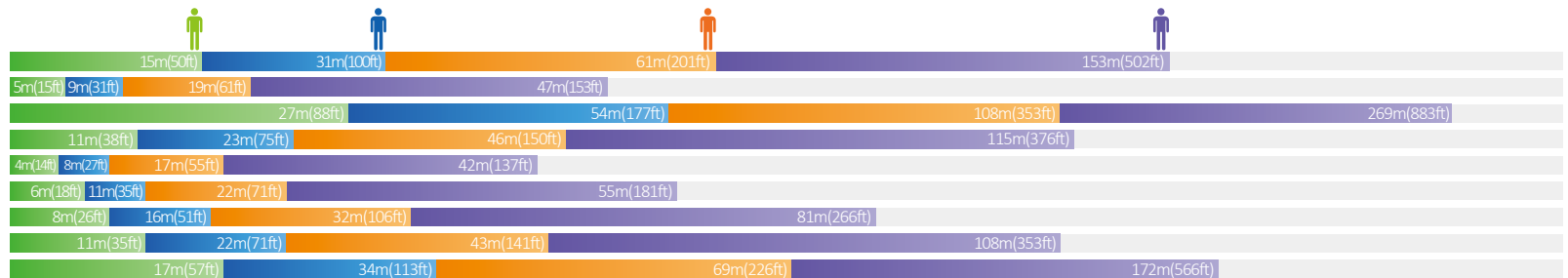
Pro Series

2401 Series 2.7~13.5mm(T)
2.7~13.5mm(W)
2.8mm
3.6mm
6mm
8mm
1.18 (Fisheye)



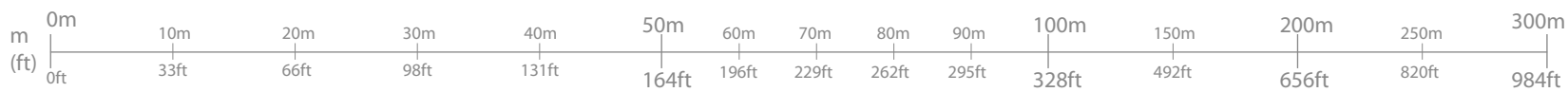
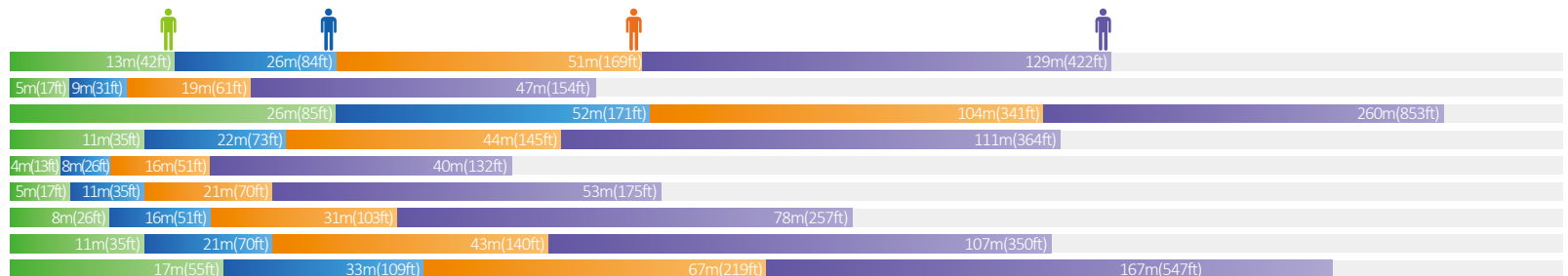
2231 Series

2.7~13.5mm(T)
2.7~13.5mm(W)
7~22mm(T)
7~22mm(W)
2.8mm
3.6mm
6mm
8mm
12mm



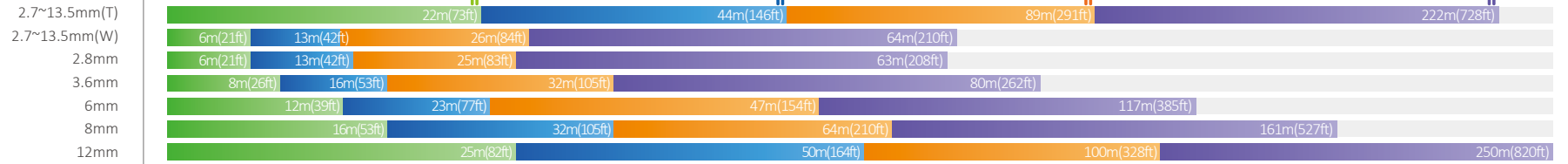
2221 Series

2.7~12mm(T)
2.7~12mm(W)
7~22mm(T)
7~22mm(W)
2.8mm
3.6mm
6mm
8mm
12mm

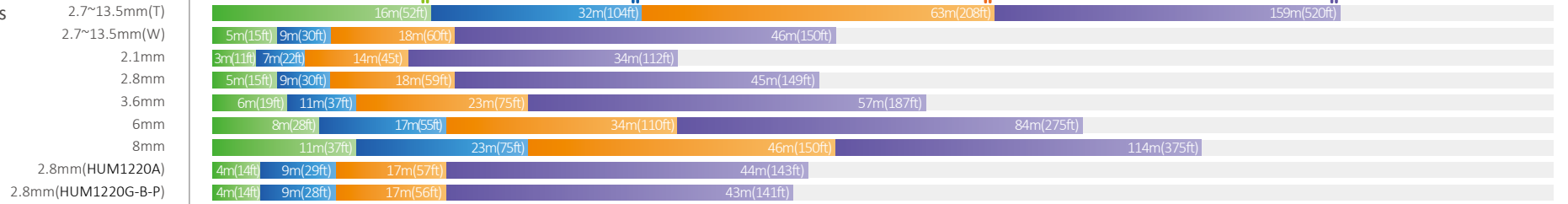


Lite Series

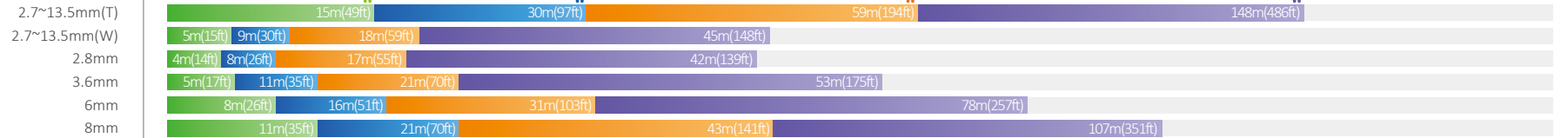
1400 Series



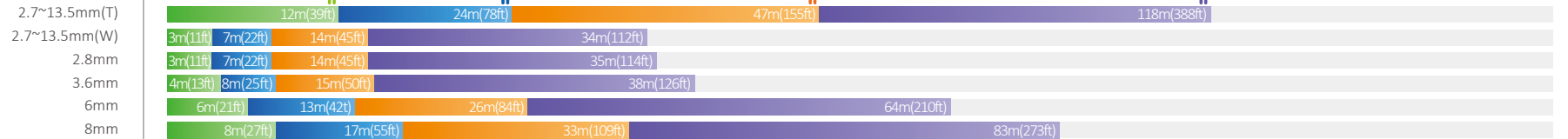
1220 Series



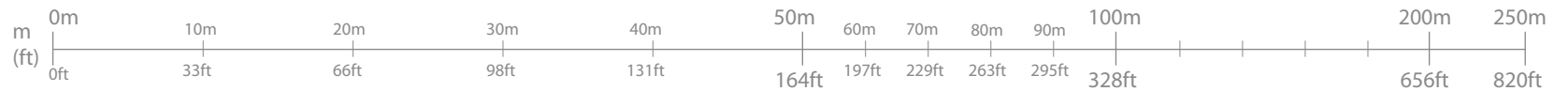
1200 Series



1100 Series



1000 Series



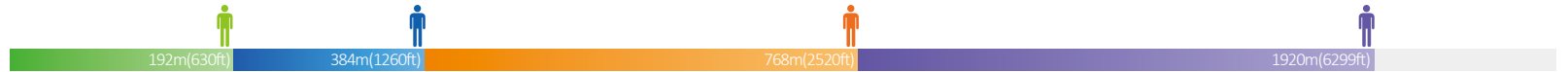
HDCVI PTZ CAMERA

Pro Series

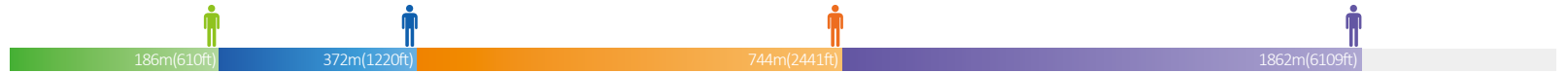
SD6C/60/59/50/52C430I-HC



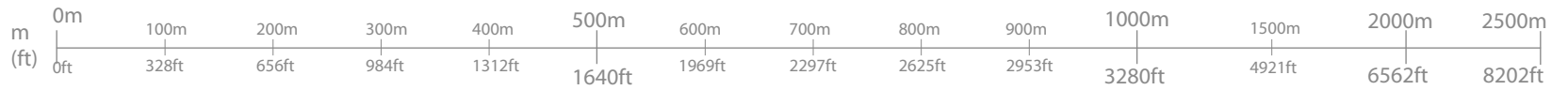
SD6AE/65F230IA-HC



SD6C/60/59/50/52C230I-HC



SD6C/60/59/50/52C225I-HC
SD6C/60/59/50/52C131I-HC



Lite Series

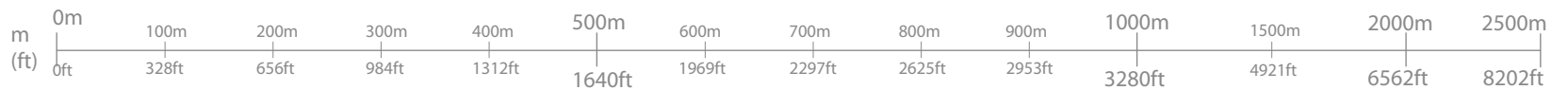
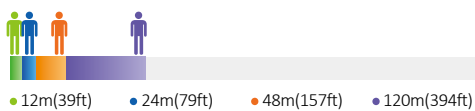
SD49225I-HC, SD49131I-HC



SD49/40/42/42C212I-HC
SD49/40/42/42C116I-HC



SD22204I-GC





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