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## 4MP STARLIGHT SMARTSENSE DUAL LENS IP 25X PTZ CAMERA

### Key Specifications:

- + 4MP IP PTZ Camera with 25x optical zoom
- + 4.8-120 mm motorized varifocal zoom lens
- + 4mm fixed lens with 91.3 degrees field of view
- + 3.09 to 55.46 degrees field of view
- + 328' Smart IR Distance
- + Starlight chipset (0.003 lux) for color in low light
- + Alarm 2/1 I/O; Audio 1/1 I/O
- + Built-In Speaker
- + MicroSD card slot - up to 256GB
- + 120dB True WDR
- + ANR Network Storage
- + IP66 weatherproof rating
- + NDA A Compliant

The 4MP PTZ Security Camera delivers crisp video day or night. This high-resolution dome camera offers several viewing-angle options, Starlight technology, and extreme long-range night vision. Integrated dual channels with only one IP address. Fixed camera can view overall scene while the PTZ camera view for details at the same time. PTZ channel can be linked to fixed channel's SmartSense analytics to track objects in view.

- + **Capture Color Video at Night** - Starlight technology chipset uses ambient light sources to capture color video in extreme low light conditions. In the darkness, you can rely on the camera's full-frame illumination technology to see clear, sharp images in the dark.
  - + **3D Digital Noise Reduction (DNR)** - Get exceptional video image quality with less noise. 3D Digital Noise Reduction (3D-DNR). 3D-DNR incorporates frame-to-frame noise reduction with spatial noise reduction to produce clear video images with less noise in low light conditions.
  - + **IP66 weatherproof housing** - delivering long-term durability even among extreme weather conditions such as rain, snow, and ice and has a wide temperature range of -40 degrees to 149 degrees Fahrenheit.
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# SPECIFICATIONS

CAMERA	Panorama	Detail
Sensor	1/2.7", 4MP, CMOS	1/2.7", 4MP, CMOS
Min. Illumination	Color:0.003 lux (F1.6, AGC ON) 0 lux with IR	Color:0.003 lux (F1.5, AGC ON) 0 lux with IR
Day/Night	IR-cut filter with auto switch (ICR)	
Shutter	Auto/Manual, 1 - 1/100000s	
WDR	120dB	
S/N	>56dB	

## LENS

Lens type	4mm@F1.6	4.8-120mm@F1.5, AF automatic focusing and motorized zoom lens
Optical Zoom	N/A	25X
Iris	Fixed aperture; F1.6	Auto; F1.5(W)-F3.8(T)
Angle of View (H)	91.3°	55.46° - 3.09°
Angle of View (V)	51.5°	32.94° - 1.73°
Angle of View (O)	112.3°	68.22° - 3.65°

## DORI

Dori Distance	Lens (mm)	Detect (m)	Observe (m)	Recognize (m)	Identify (m)
	4 (Panorama)	90.0 (295.3 ft)	36.0 (118.1 ft)	18.0 (59.1 ft)	9.0 (29.5 ft)
	4.8 (Detail)	123.8 (406.0 ft)	49.5 (162.4 ft)	24.8 (81.2 ft)	12.4 (40.6 ft)
	120 (Detail)	2475.0 (8120.1 ft)	990.0 (3248.0 ft)	495.0 (1624.0 ft)	247.5 (812.0 ft)

## ILLUMINATOR

IR Range	Up to 30m (98.4 ft)	Up to 100m (328.1 ft)
Wavelength	850nm (IR)	
Light On/Off Control	Auto/Manual	

## VIDEO

Video Compression	Ultra 265, H.265, H.264, MJPEG	
Frame Rate	Main Stream: 4MP (2688*1520),Max 30fps; Sub Stream: 1080P (1920*1080), Max 30fps; Third Stream: D1 (720*576), Max 30fps;	Main Stream: 4MP (2688*1520),Max 30fps; Sub Stream: 720P (1280*720), Max 30fps; Third Stream: D1 (720*576), Max 30fps;
Video Bit Rate	128 Kbps - 16 Mbps	
U-code	Support	
ROI	Up to 8 areas	
Video stream	Triple streams	
OSD	Up to 8 OSDs	
Privacy Mask	Up to 4 areas per scene	24 areas, up to 4 areas per scene

## IMAGE

White Balance	Auto/Outdoor/Fine Tune/Sodium Lamp/Locked/Auto2
Digital noise reduction	2D/3D DNR
Smart IR	Support
Flip	Normal/Flip Vertical/Flip Horizontal/180°
HLC	Support
BLC	Support
Defog	Digital defog

# SPECIFICATIONS

EVENTS	Panorama	Detail
Basic Detection	Motion detection, Audio detection, Tampering Alarm	
Auto Tracking	N/A	Support
General Function	Watermark, IP Address Filtering, Alarm input, Alarm output, Access Policy, ARP Protection, RTSP Authentication, User Authentication	

## AUDIO

Audio Compression	G.711U, G.711A
Audio Bitrate	64 Kbps
Two-way Audio	Support
Suppression	Support
Sampling Rate	8 kHz

## STORAGE

Edge Storage	Micro SD, up to 256 GB
Network Storage	ANR

## NETWORK

Protocols	IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SNMP, QoS, RTMP, SSL/TLS
Compatible Integration	ONVIF (Profile S, Profile G, Profile T), API, SDK
User/Host	Up to 32 users. 3 user levels: administrator, operator and common user
Security	Password protection, strong password, HTTPS encryption, Export operation logs, basic and digest authentication for RTSP, digest authentication for HTTP, TLS 1.2, WSSE and digest authentication for ONVIF
Client	Guard Station CMS Guard Tools Software Guard Viewer Mobile
Web Browser	Plug-in required live view: IE 10 and above, Chrome 45 and above, Firefox 52 and above, Edge 79 and above

## PAN & TILT

Pan Range	N/A	360°
Pan Speed	N/A Preset speed: N/A	0.1°/s - 80°/s Preset speed: 80°/s
Tilt Range	18° ± 5°	-15° - 90°
Tilt Speed	N/A Preset speed: N/A	0.1°/s - 80°/s Preset speed: 80°/s
Number of Presets	1024	
Preset Patrol	16 patrols, up to 64 presets for each patrol	
Route Patrol	16 patrols, up to 32 actions for each patrol	
Recorded Patrol	16 patrols, up to 128 actions for each patrol	
Patrol Stay Time	15s-1800s	
Preset Image Freeze	N/A	
Home Position	Support	

# SPECIFICATIONS

## INTERFACE

Audio I/O	1/1
Alarm I/O	2/1
Serial Port	1 RS485
Built-in Mic	N/A
Built-in Speaker	Support
Wi-Fi	N/A
Network	1 * RJ45 10M/100M Base-TX Ethernet
Video Output	N/A

## CERTIFICATION

EMC	CE-EMC (EN 55032: 2015+A1:2020, EN 61000-3-3: 2013+A1: 2019, EN IEC 61000-3-2: 2019+A1: 2021, EN 55035: 2017+A11:2020) FCC (FCC CFR 47 part15 B, ANSI C63.4-2014)
Safety	CE LVD (EN 62368-1:2014+A11:2017) CB (IEC 62368-1:2014) UL (UL 62368-1, 2nd Ed., Issue Date: 2014-12-01)
Environment	CE-RoHS (2011/65/EU;(EU)2015/863)
Protection	IP66 (IEC 60529:1989+AMD1:1999+AMD2:2013)

## GENERAL

Power	DC12V ( $\pm 25\%$ ), PoE+(IEEE 802.3at) Power consumption: MAX 24W
Power Interface	$\varnothing$ 5.5mm coaxial power plug
Dimensions ( $\varnothing$ x H)	$\varnothing$ 163 x 304mm ( $\varnothing$ 6.4" x 12.0")
Weight	2.27kg (5.00lb)
Working Environment	-40°C ~ +65°C(-40°F ~ +149°F) Humidity: $\leq 95\%$ RH (non-condensing)
Storage Environment	-40°C ~ +70°C(-40°F ~ +158°F) Humidity: $\leq 95\%$ RH (non-condensing)
Surge protection	6KV
Reset button	Support

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## DIMENSIONS

