



Description

A long-range intelligent monitoring pan-tilt camera designed for extended perimeter surveillance, border monitoring, forest fire prevention, critical infrastructure, maritime observation, and large-site security.

Features

- 4MP visible camera with 100X optical zoom
- 3000m long-range laser illumination
- 10-1000mm long focal length lens
- 22kg top-load PTZ platform
- ONVIF Profile S/G/T support
- 1T AI computing power
- Smart video detection and face detection
- Image stabilization and optical defog
- 360 deg continuous pan rotation
- IP66 outdoor protection

Applications

- Forest fire prevention
- Borderline and perimeter monitoring
- Prisons and critical facilities
- Oil fields, depots, and pipelines
- Large factories, mines, and freight yards
- Maritime fishery and ecological reserves

Specifications

CAMERA		
Image Sensor		1/1.8" Progressive Scan CMOS
Max. Resolution		2560 × 1440 (4MP)
Min. Illumination	Color	0.0005 Lux @F2.1, AGC ON
	B/W	0.0001 Lux @F2.1, AGC ON
Day/Night Switch		IR cut filter; automatic, manual, timing, and alarm trigger modes
Shutter		1/25s to 1/100,000s; delayed shutter supported
Digital Zoom		16x
Optical Zoom		100x
Video Output		Network
LENS		
Aperture		PIRIS
Aperture Range		F2.1-F11.2
Focal Length		10-1000 mm
Field of View (H)		38.4°–0.41° (Wide to Tele)
Min. Working Distance		1–10 m (Wide to Tele)
LASER ILLUMINATION		
Lighting Distance		3000 m (9842.5 ft)
Wavelength		808 +/- 5nm
Laser Chip Power		20 W
Far Angle		0.3°; lighting distance >3000 m; spot diameter <16 m
Near Angle		35°; lighting distance >50 m
VIDEO		
Frame Rate	Main Stream	50 Hz: 25 fps @2560 x 1440, 1920 x 1080, 1280 x 960, 1280 x 720; 60 Hz: 30 fps @same resolutions
IMAGE		
Image Settings		Saturation, brightness, contrast, sharpness; adjustable via client or browser
BLC		Supported
Exposure Mode		AE, aperture priority, shutter priority, manual exposure

Specifications

Focus Mode	Auto, one-step, manual, semi-auto	
Area Exposure / Focus	Supported	
Optical Defog	Supported	
Image Stabilization	Supported	
Digital Noise Reduction	3D DNR	
NETWORK		
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, RTP, RTSP, RTCP, NTP, SMTP, SNMP, IPv6	
Compatible Integration	ONVIF (Profile S, Profile G, Profile T)	
ANALYTICS		
AI Computing Power	1T	
Smart Detection	Cross-border detection, area intrusion, entering/leaving area, hovering, personnel gathering, fast motion, parking detection/take detection, scene change, audio detection, false focus detection, face detection	
STORAGE		
Edge Storage	Micro SD / SDHC / SDXC, up to 256 GB	
Network Storage	NAS support with NFS, SMB/CIFS	
PTZ		
PTZ Load	Top load 22 kg	
Pan	Range	360° continuous rotation
	Speed	0.1°/s-40°/s
Tilt	Range	+40° to -75°
	Speed	0.1°/s-15°/s
Preset Positions	256	
Cruising	8 channels	
Automatic Scanning	8 channels	
Automatic Homing	Supported	
Cruise Track	4 channels	
Auxiliary Switch	2 groups	
Control Way	RS485 control; rotation angle return and angle control supported	

GENERAL

Power Supply	DC 24 V	
Power Consumption	≤90 W	
Operating Environment	Temperature	-35°C to +55°C (-31°F to +131°F)
	Humidity	<90% RH
Protection Grade	IP66	
Material	Die-cast aluminum alloy body	
Construction Features	Automatic defogging glass, wiper function, wide voltage stabilizing module	
Web Language	English, Chinese	

Dimensions — [mm]

