



The Defender R30 camera integrates long range OIS zoom lens with laser illuminator, along with its robust structure, is well designed to provide early detection and vast area coverage in various scenarios like coastal, border, aviation or even counter-UAV surveillance. Powered by industry leading AI ISP and in-house machine learning algorithms, the camera acts faster with a variety of intelligent detections.

Features

Exceptional Imaging Performance

1/1.8" 4MP Sony Starvis sensor with Vmage AI ISP, presents crisp, clear images in even the most challenging lighting conditions.

Vast Area Coverage

15-775mm 52x visible zoom lens with Optical Defog, along with 3KM laser Illuminator, enhance your awareness and detection even in total darkness.

Fast Detection with Machine Learning

Act quicker with intelligent analytics that alert you in real-time of critical events. R30 supports various machine learning detections of fire/smoke/human/vehicle/vessel or anomalies to help you identify potential threats.

Solid Optical Stabilization

The all-new developed optical image stabilization system can effectively reduce image shake, the angle at which stabilization can be performed has been increased by a factor of 1.5.

Rugged Design for Tough Environments

Robust top-load structure with IP66/TVS 6KV/lightning/surge/voltage transient protection, R30 is designed for various extreme outdoor weather conditions.

Technical Specs

Visible Camera				
Image Sensor	1/1.8" STARVIS progressive scan CMOS			
Resolution	2688 x 1520, 4MP			
Lens	15-775mm, 52x motorized zoom, F2.8-8.2 Field of view: 29.1°x 16.7°(H x V)-0.5°x 0.3°(H x V) Near focus distance: 1-10m Zoom speed: <7s(W-T) Focus modes: Semi-auto/Auto/Manual/One-push			
Min. illumination	Color: 0.0005Lux, B/W: 0.0001Lux, AGC&AI-NR ON, F2.8			
Electronic Shutter Speed	1/1-1/30000s			
Noise Reduction	2D/3D/AI-NR			
Image Stabilization	EIS & OIS			
Day/Night	Auto(ICR)/Manual			
White Balance	Auto/Manual/ATW/Indoor/Outdoor/Sodium Lamp/Streetlight/Natural			
WDR	120dB			
Optical Defog	Auto/Manual			
Anti-heatwave	Auto/Manual			
Digital Zoom	16x			
DORI Ratings*	Detection	Observation	Recognition	Identification
	12320m	4889m	2464m	1232m
*The DORI standard (based on the IEC EN62676-4:2015 international standard) defines different levels of detail for detection (25PPM), observation (62PPM), recognition (125PPM), and Identification (250PPM). This table is for reference only and performance may vary depending on the environment.				
Laser Illuminator				
Wavelength	808nm±5nm			
Ranging distance	≥ 3000m			
Angle	0.3° -40°			
Angle Control	Manual/Synchronized			
Optical Axis Adjustment	Motorized, accuracy up to 0.01° - 0.02°			
Mode	Tangent Circle / Full Cover			
Pan/Tilt				
Pan	Range: 360° continuous rotation Speed: 0.01°- 40°/s			
Tilt	Range: -45° to +45° Speed: 0.01°-20°/s			
Positioning Accuracy	0.01°			
Preset	256			
Tour	8, Up to 32 presets per tour			
Scan	4			
Pattern	4			

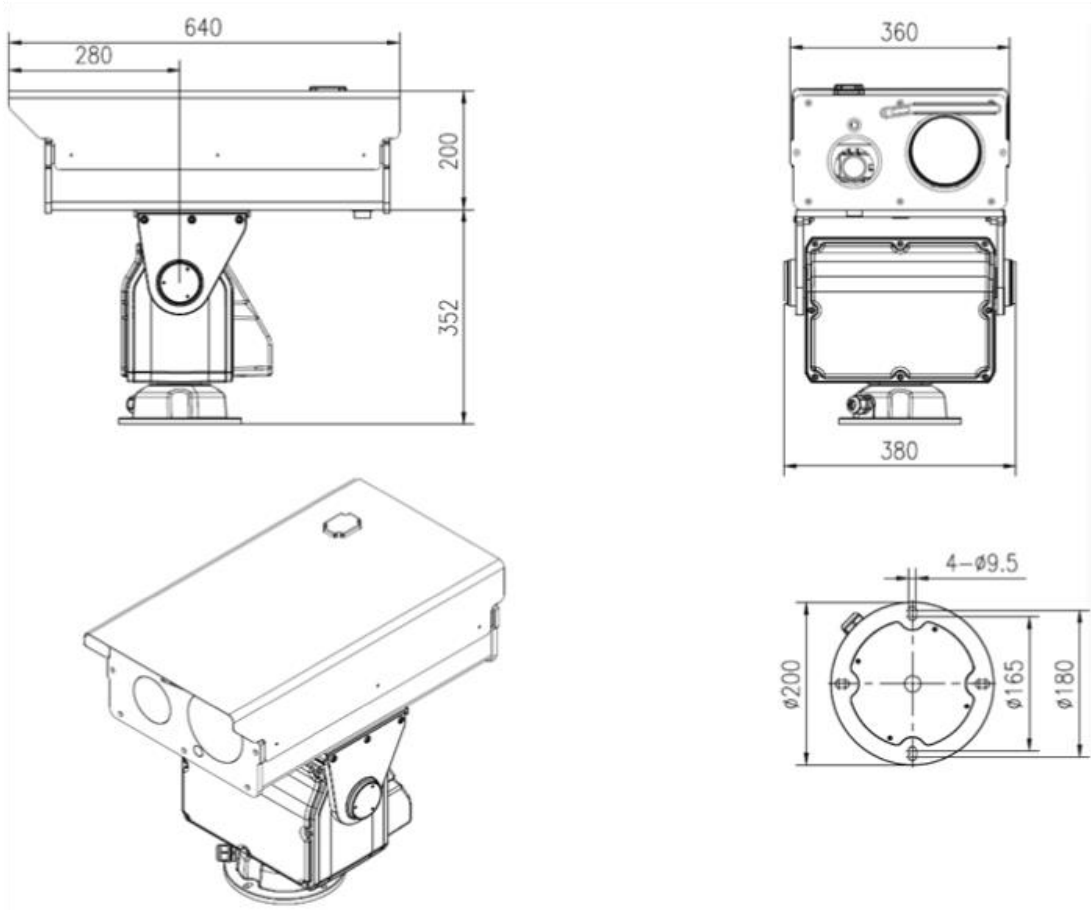
Park	Preset/Tour/Scan/Pattern
Scheduled Task	Preset/Tour/Scan/Pattern
Power-off Memory	Support
Snap Positioning	Support
Proportional P/T to Zoom	Support
Heater/Fan	Integrated, Auto/Manual
Wiper	Integrated, Manual/Scheduled
Video and Audio	
Video Compression	H.265/H.264/H.264H/ H.264B/MJPEG
Main Stream	25/30fps (2688 x 1520, 1920 x 1080, 1280 x 720), 16fps@MJPEG
Sub Stream	25/30fps (1920 x 1080, 1280 x 720, 704 x 576/480)
Image Encoding	JPEG, 1-7fps (2688 x 1520)
OSD	Name, Time, Preset, Temperature, P/T Status, Zoom, Address, GPS, Image overlay, Abnormal info
Audio Compression	AAC (8/16kHz), MP2L2(16kHz)
Network	
Network Protocols	IPv4, IPv6, HTTP, HTTPS, TCP, UDP, RTSP, RTCP, RTP, ARP, NTP, FTP, DHCP, PPPoE, DNS, DDNS, UPnP, IGMP, ICMP, SNMP, SMTP, QoS, 802.1x, Bonjour
API	ONVIF(Profile S, Profile G, Profile T), HTTP API, SDK
User	Up to 20 users, 2 level: Administrator, User
Security	User authentication (ID and password), IP/MAC address filtering, HTTPS encryption, IEEE 802.1x network access control
Web Browser	IE, EDGE, Firefox, Chrome
Web Languages	English/Chinese
Storage	MicroSD/SDHC/SDXC card (Up to 1Tb) edge storage, FTP, NAS
Analytics	
Perimeter Protection	Line crossing, Fence crossing, Intrusion
Target Distinction	Human/Vehicle/Vessel Classification
Behavioral Detection	Object left in area, Object removal, Fast moving, Gathering, Loitering, Parking
Events Detection	Motion, Masking, Scene change, Audio detection, SD card error, Network disconnection, IP conflict, Illegal network access
Fire Detection	Support
Smoke Detection	Support
Strong Light Protection	Support
Auto Tracking	Multiple detection tracking modes
Interface	
Alarm Input	7-ch
Alarm Output	2-ch
Audio Input	1-ch
Audio Output	1-ch
Ethernet	1-ch RJ45 10M/100M

RJ485	1-ch
General	
Casing	IP 66
Power	48V DC, typical 80, max 210w, DC48V Power adapter included TVS 6000V, Surge protection, Voltage transient protection
Operating Conditions	Temperature: -40℃ to +70℃/-22°F-158°F, Humidity: <90%
Dimensions	494*594*540mm (W×H×L)
Weight	75kg

Ordering Information

Model No.	Description
VS-PTZ4052YIO-L30-R30	4MP 775mm OIS Long-range Laser IR Heavy-duty Positioning Camera

Dimensions



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