ON-BOARD 360° CAMERA
ON-BOARD VIDEO SECURITY SYSTEM

FEATURES

- 180° Panoramic View and 360° Surround View

- WDR Pro for unparalleled Visibility in High Contrast Environments

- Vandal-proof IK10-rated and Weather-proof IP66-rated Housing

NETWORK CAMERAS FOR EVERY APPLICATION IN THE VEHICLE

This market-leading 360° network camera features a detailed 12-Megapixel CMOS sensor which guarantees superb image quality. Utilizing the latest in panomorph lens technology for 180° panoramic view (wall mount) or 360° surround view (ceiling/wall mount) with zero blind spots, this camera is able to provide comprehensive coverage of open areas on board.

The camera is equipped with a removable IR-cut filter and WDR Pro technology, allowing the cameras to maintain optimal image quality around the clock for unparalleled visibility under high-contrast lighting environments. 3D noise reduction technology enables the camera to capture clear, polished video under low-light conditions.

Adaptive IR enables the cameras IR illuminators to adjust to the scene together or individually to provide the best possible IR image, reducing glaring hotspots and/or underexposed dark spots.

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TECHNICAL DATA

Image	
Image Sensor	1/1.7" Progressive CMOS in 4000x3000
Lens	Fixed-focal
Focal Length	f = 1.29 mm
Aperture	F2.2
Field of View	180° (horizontal) 180° (vertical) 180° (diagonal)
Resolution	2816x2816
Frame Rate	30 fps @ 2816x2816
Shutter Speed	1/5 sec. to 1/16,000 sec.
Pan / Tilt / Zoom	ePTZ: 12x digital zoom (12x on IE plug-in)
IR Illuminators	Built-in IR illuminators, effective up to 20 meters with Smart IR II
Minimum Illumination	0.18 Lux @ F2.2 (Color), <0.001 Lux @ F2.2 (B/W)
IR Distance	20 m
Signal-To-Noise-Ratio	42.9 dB
Dynamic Range	120 dB, WDR Pro Technology
Day and Night	Removable IR-cut filter for day & night function
Image Settings	Adjustable image size, quality and bit rate, time stamp, text overlay, flip & mirror, scheduled profile settings, configurable brightness/contrast/saturation/sharpness, pixel calculator, 3D-Noise reduction, white balance, exposure control, gain, backlight compensation, privacy masks, defog
Video	
Video Streaming	Adjustable resolution, quality and bitrate, configurable video cropping for bandwidth saving, Smart Stream III
Video Compression	H.265, H.264, MJPEG
Audio	
Audio Input	Two-way audio (full duplex)
Audio Compression	G.711, G.726
Effective Range	5 m
Network	
Supported Protocols	IPv4, IPv6, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/RTCP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPoE, CoS, QoS, SNMP, 802.1X ,SSL/ TLS, ARP, CIFS/ SMB
Interface Protocols	10 Base-T/100 Base-TX/1000 Base-T Ethernet (RJ-45) *It is highly recommended to use standard CAT5e & CAT6 cables which are compliant with the 3P/ETL standard
Security	Trend Micro IoT Security
Users	Live viewing for up to 10 clients
ONVIF	Supported, specification available at www.onvif.org
Mechanics	
Micro-SD Card Slot	Slot type: MicroSD/SDHC/SDXC card slot, Seamless Recording

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Alarm and Event	
Alarm Triggers	Motion detection, manual trigger, digital input, periodical trigger, system boot, recording notification, camera tampering detection, audio detection, MicroSD card life expectancy, cybersecurity events (block brute force attack, block cyber attack, quarantine event)
Alarm Events	Event notification using digital output, HTTP, SMTP, FTP, NAS server and MicroSD card File upload via HTTP, SMTP, FTP, NAS server and MicroSD card
Solution Integration	
Smart Motion Detectionn	Five-window video motion detection, people detection, time filter
Smart 360 VCA	Intrusion detection, crowd detection, loitering detection
Computer	
Processor	Multimedia SoC (System-on-Chip)
Memory	256 MB
RAM	1 GB
Software	
Applications	X-Fleet Manager
ElectricalProperties	
Operating Voltage	PoE 802.3at Class 4
Power Consumption	Max. 25 W
Interfaces	
User Interface	System power and status indicator
Ethernet	M12 D-coded
Microphone	Built in
Mechanical Properties	
Weight	846 g
Dimensions	Ø 160 x 62 mm
Environment	
Operating Temperature	Starting Temperature: -25°C ~ 50°C (-13°F ~ 122°F) Working Temperature: -40°C ~ 50°C (-40°F ~ 122°F)
Relative Humidity	90%
Ingress Protection	IP66
Impact Protection	IK10
Standards	
DIN EN 50155	Compliant
UL	Compliant
FCC	Class A
CE	Compliant
LVD	Compliant
VCCI	Compliant
C-Tick	Compliant

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