FD950

5MP Fixed Camera, 2.7-12mm motorized lens, H.265/H.264, IR

DESCRIPTION

The FD950 is a robust outdoor fixed dome camera with built-in IR illumination providing clear images under any lighting condition. The camera has multi-stream capabilities for simultaneously streaming of H.265/H.264/MJPEG. Multiple combinations of resolution and frame rate can be configured. To have a secured network environment, FD950 is capable of streaming out by HTTPS protocol.

FEATURES

- Max 2560x1920 Resolution
- 5MP 30fps, 1080p 60fps
- Quad stream H.264, H.265 and MJPEG
- Secured Streaming
- Embedded Video analytics
- Built-In Gyro, EIS
- Bi-directional Audio
- Built-in IR illuminator
- ONVIF Profile S, G, T, M
- IP66, IK10 vandal proof



Description

Multi-stream multi-codec

The camera has quad-stream capability for simultaneous streaming of H.265, H.264 and MJPEG. Multiple combinations of resolution, frame rate, and encoding can be configured to fit all possible live viewing and recording scenarios. The 5 Mpixel resolution is available at 25/30 fps still offering multiple exposure WDR (or HDR, in short) with the possibility to add a second stream.

Open standards

Multiple options are available to easily integrate the FD950 to a video management system. In support of open standards, the camera is ONVIF conformant. Any VMS today supports this camera via its ONVIF driver.

Image enhancement

The FD950 utilizes advanced image processing technology. Crisp and detailed 5MP images with an extremely high dynamic range in real time due to multiple exposure HDR within one frame. Back-light and High-light compensation enhances image-visibility in difficult lighting situations. In addition the camera provides for 3D motion compensated noise reduction for the best images.

Power source choices

The FD950 can be powered by 12 Vdc, 24 Vac, or over the network with PoE.

(c) 20260420

Camera				
Image Sensor	1/2.7" Progressive CMOS			
Effective pixels	2720x1976 (5MP)			
Minimum scene illumination	Color: 0.08lux, B/W: 0.008 lux, 0lux with			
	IR illumination on, F1.6, 30IRE, 1/1 shutter speed			
Shutter Speed	1 sec. to 1/30,000 sec.			
Lens	Motorized 2.7 to 12mm, F/1.6, P-iris			
Field of View	31.5° to 102.1° horizontal, 22.7° to 70.3° vertical			
Focus Control	Autofocus			
Slow Shutter	Supported			
Day/Night	Automatical IR-cut Filter			

Video				
Video Compression	H.265 (Main Profile) / H.264 (High Profile/Main Profile) / MJPEG			
Max. Resolution	2560x1920 30fps(WDR Pro on), 1920x1080 60fps (WDR Pro off)			
Supported Resolution	2560x1920 (5MP); 2592x1944, 2688x1512,1920x1080, 1280x1024,			
	1280x720, 1360x768, 640x360, 480x272			
Frame Rate	25/30fps, 50/60fps			
Number of simultaneous streams	Quad streams			
Video Bitrate	64 Kbps 20 Mbps			
30fps	2688x1944	720x480	640x480	352x240
30fps	2688x1944		1024x768	
60fps(Shutter WDR OFF)	1920x1080		1280x720	
Bitrate Control	Constant bit rate (CBR), variable bit rate (VBR), Smart bitrate			
Number of video output streams	Up to 10 (RTSP)			
Total Output Data	51.2Mb/s			
Video output	1 Vp-p; 2-pin to BNC patch cable (For test/installation only)			
Region of interest	Support			

Image	
Wide dynamic range	120dB
White Balance	Auto, Fixed, Manual
Image Setting	Saturation, Brightness, Contrast, Sharpness, Backlight Compensation,
	Highlight Compensation, WDR, Exposure control, Gain, Defog
Day/Night Switch	Auto/Scheduled/Triggered by Alarm In
Image Enhancement	2DNR, 3DNR, Defog
Digital Zoom	10x
Image Rotation	90°, 180°, 270° rotation
Text and picture overlay	Date, time, Preset title, Image, Image transparency, Text string
Privacy mask	Support

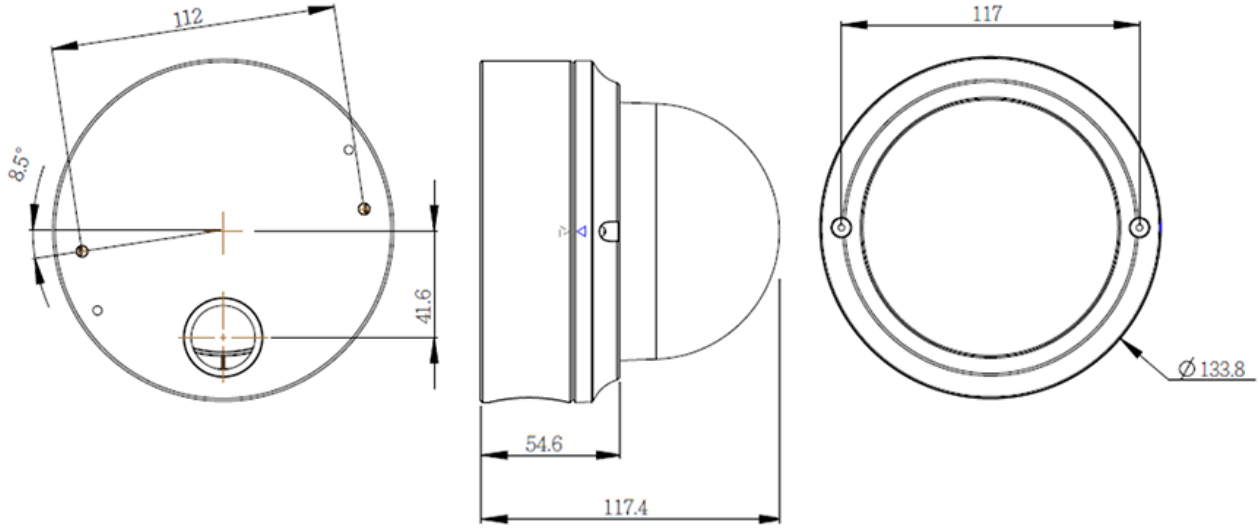
Analytics	
Smart Analytics	Abandoned Object, Intrusion Detection, Camera Sabotage
	Wrong Direction, Loitering Detection, Object Counting

Specs

Analytics	
	Object Removal, Stopped Vehicle
Event detections	External Input, Periodical Event, Tampering, Audio Detection,
	Manual Trigger, System boot, recording notification
Event Action	Alarm output, Record video clip to NAS/SD card, Send alarm message
	and image by E-mail/FTP, Send HTTP notification
Audio	
Capability	Two-way stereo audio
Audio Interface	1x 3.5 mm audio in (line in) ; 1x 3.5 mm audio out interface
Compression	G.711, G.726, AAC, LPCM
Alarm	
Input	1x
Output	1x
Operational modes	Motion detection, Tampering alarm, Alarm I/O
Network	
Communication Interface	10/100 Mb (RJ45)
Network protocols	IPv4/IPv6, HTTP, HTTPS (TLS1.2), 802.1x, Qos, FTP, SMTP(SSL), UPnP, SNMP,
	DNS, DDNS, NTP, RTSP, RTCP, RTP/UDP, SRTP, TCP/IP, IGMP(v2/v3), DHCP, PPPoE,
	SSL/TLS, ONVIF Profile S/G/T/M, Siqura Protocol
Security	User authentication, Syslog, Digest authentication (RTSP, HTTP), HTTPS
	encryption (TLSv1.2/v1.3), IEEE 802.1x port-based network access control, IP filtering,
	EAP-TLSv1.2/v1.3, SRTP, Signed firmware, Secured bootup
Web Viewer	Internet Explorer 11, Microsoft Edge, Google Chrome, Mozilla Firefox
General	
Protection Level	IP66, IK10
Material	Die cast aluminum and Plastic
Edge Storage	Built-in micro SD/SDHC/SDXC slot, up to 512 GB
Power	24 VAC +/- 10%; 12 VDC +/- 10% (terminal block); PoE (IEEE 802.3af class 0, Max. 12.95W)
IR illumination	850nm IR LEDs, 50m IR Viewable Length
Operating temperature	-40°C to 60°C (-22°F to 140°F)
Relative humidity (Operating)	5 to 95%, No condensation
Storage temperature	-20°C to 70°C (-4°F to 158°F)
Relative humidity (Storage)	10 to 60%
Dimensions(camera body)	diameter133.8x117.4 mm
Weight	760g
Colour	RAL 9003 (Signal white)
Ordering Information	
FD950	5MP fixed dome, 2.7-12mm motorized, H.265/H.264/MJPEG, P-iris, IR, IK10, IP66
CM13/FD	Flush mount kit for FD800, FD910, FD950 and FD980 series

Specs

Ordering Information	
TA01/FD	Tube adapter/pendant mount for FD800, FD910, FD950 and FD980 series
WM19/FD	Wall mount for FD800, FD910, FD950 and FD980 series
DC21	Dome cover, transparent, vandal proof, for FD910, FD950, FD980
DC21S	Dome cover, smoked, vandal proof, for FD910, FD950, FD980


112
8.5°
41.6
54.6
117.4
117
Ø 133.8

RELATED



TKH Security WM22
Wall mount, for FD360v2, FD950, FD980



TKH Security CM13/FD
Flush mount kit for FD800, FD910, FD950, FD980 series



TKH Security TA27
Tube adapter/pendant mount for FD810, FD820v2, FD910, FD950, FD980, FD360



TKH Security DC21
Dome cover, transparent, vandal proof, for FD910, FD950, FD980



TKH Security DC21S
Dome cover, smoked, vandal proof, for FD910, FD950, FD980