

FD360V2

12MP outdoor fisheye camera H.265/H.264, IR, IP66/IK10

DESCRIPTION

The FD360v2 12 megapixel IP fisheye 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. Front-end dewarping mode is equipped and a variety of resolutions and image modes like the full 360° view, dewarped panoramic view (2x 180°), dewarped single view, or dewarped quad view can be selected. With its IP66 construction, IK10 vandal-resistant housing, and fixed lens, installation is fast and easy.

FEATURES

Max 4000 x 3000 Resolution

Quad stream H.264, H.265 and MJPEG

On-board dewarping for easy installation, ePTZ Control

Various Dewarp mode Quad View, Double Panoramic View etc

H.265/H.264/MJPEG video compression

Bi-directional Audio

Built-in IR illuminator

ONVIF Profile S, G and T

IP66, IK10 vandal proof





Description

Multi-stream high definition

The camera has the capability to stream simultaneous 4 video streams in H.265, H.264 and MJPEG. Multiple combinations of encoding, resolution and frame rate can be configured to satisfy different live viewing and recording scenarios. Each selected resolution-frame rate combination can be freely set to a stream number. Also, the optimized encoding H.265/HEVC streaming provides clear images with less transmission bandwidth and storage capacity required.

Dewarping Mode

FD360v2 equipped with edge dewarping and backend dewarping. With edge dewarping, the camera dewarps the original 360 view to various image modes and streams dewarped image independently across the network. The dewarped view can be moved by the ePTZ function in the webpage to the desired angle without a blind spot. In back end dewarping mode, the dewarping relies on the viewing application. In this mode, the camera only streams the fisheye source image.

Cybersecurity

The essential protection starts when the camera out of the box. At the first login attempt, it's required to set up a strong password to a certain level. Using HTTPS SSL/TLS 1.2, web browsers and video streaming can be protected within a secured communication channel. The security boundaries are set using multi-level user management and system log records every configuration change as well as login attempts as the track. Network access is protected by IEEE 802.1x port-based authentication with EAP/TLS or EAP/PEAP.

Open standards

Multiple options are available to easily integrate the FD360v2 into a video management system. In support of open standards, the camera is compliant with the ONVIF Profile S, Profile G and Profile T specification, which enables the local recording and secure HTTPS communication.



Image Sensor	1/1.7" Progressive CMOS 12 MP
Effective pixels	4000(H) x 3000(V)
Minimum scene illumination	Color: 0. 01Lux @ F2.8 30IRE,
Thin that seeme marinitation	B/W: 0.01 lux @ F2.8 30IRE, 0 lux with IR
Shutter Speed	1 ~ 1/10.000 sec
Lens	1.65 mm, F2.8, Fixed Iris
Field of View	H: 180° / V: 180°
Slow Shutter	
	Supported Automatical IR-cut Filter
Day/Night	Automatical IR-cut Filter
Video	
Video Compression	H.265 (Main Profile) / H.264 (High Profile/Main Profile) / MJPEG
Video Bitrate	64 Kbps 20 Mbps
Max. Resolution	4000x3000 20fps, 1080p for MJPEG
Supported Resolution	
Overview	4000x3000, 2992x2992, 3840x2160, 3200x1800, 1920x1080, 1280x1024, 1280x72
	1024x768, 800x600, 720x480, 640x480, 352x240
Panorama, double panorama, Quad view	2976x2976, 2048x2048, 2048x1536, 1920x1080,
	1600x1200, 1408x1408, 960x960, 960x720, 960x544, 480x360
Frame Rate	25/30 fps
Number of simultaneous streams	Quad Streams
Max. Streaming	
20fps	4000x3000 1920x1080
30fps	3840x2160 1920x1080
30fps (dual shutter WDR)	3840x2160 1280x1024 800x600 352x240
Bitrate Control	Constant bit rate (CBR), variable bit rate (VBR), Low bit rate (LBR)
Number of video output streams	Up to 20 (RTSP)
Total Output Data	51.2Mb/s
Region of interest	1 region per stream
Image	
White Balance	Auto, ATW, Manual, One push
Image Setting	Saturation, Brightness, Contrast, Sharpness, Backlight Compensation,
	Highlight Compensation, WDR
Day/Night Switch	Auto/Scheduled/Triggered by Alarm In
Image Enhancement	2DNR, 3DNR, ColorNR
Image Rotation	90°, 180°, 270° rotation
privacy masks	5x
Text and picture overlay	Date & time, 3x line (54 characters each), Preset title, Image,
	Image transparency
Analytica	
Analytics	
Event detections	External Input, Network Failure Detection, Periodical Event, Tampering,

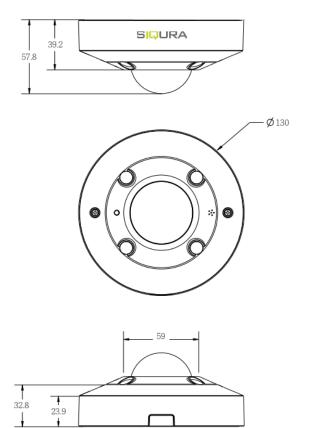
Specs



Analytics	Audia Dataction, Manual Triagan
Event Action	Audio Detection, Manual Trigger Alarm output, Record video clip to NAS/SD card, Send alarm message and image
Event Action	by E-mail/FTP, Send HTTP notification
	by E-main 11, Send 11111 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, ACC, LPCM
Alama	
Alarm	4. 0. 5.7.401
Input	1x, 0 - 5 V, 10 k pull-up
Output	1x, Photo relay output 300 Vdc/ac
Operational modes	Cell-based motion detection, Network Failure Detection, Tampering alarm,
	IP address conflict, illegal login, disk full, disk error, Alarm I/O
Network	
Communication Interface	10/100/1000 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, TCP/IP, IGMP(v2/v3), DHCP, PPPoE,
	SSL/TLS, ONVIF Profile S/G/T, Siqura Protocol
Security	User authentication, Syslog, Digest authentication (RTSP, HTTP), HTTPS encryptio
	(TLS1.2), IEEE 802.1x port-based network access control, IP filtering
Web Viewer	Internet Exploer 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	12 VDC +/- 10% (terminal block); PoE (IEEE 802.3af, max. 9.9W)
IR illumination	850nm IR LEDs, 5m IR Viewable Length
Start-up Temperature	-16°C
Operating temperature	-30°C ~ +60°C (-22F to 144F)
Relative Humidity	10% to 90%, no condensation
Dimensions(camera body)	130 x 57.8 mm (5.11 x 2.27 ln)
Weight	0.565 kg (1.24 lbs)
Colour	RAL 9003 (Signal white)
Ordering Information	10MD februar 11 27 F/11 27 A ID ID77 / ///240
FD360v2	12MP fisheye, H.265/H.264, IR, IP66/IK10
WM22	Wall mount for FD360v2, FD910 and FD980
TA03	Tube adapter/pendant mount for FD360v2, FD910 and FD980
CM23	Flush mount kit for FD360v2



DIMENSION IN MM







RELATED



TKH Security WM22

Wall mount, for FD360v2, FD950, FD980



TKH Security CM23

In-Ceiling mount for FD360v2



TKH Security TA27

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



TKH Security DC35

Dome cover, transparent, vandal proof, for FD360v2 $\,$