FD360V2

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

D E S C R I P T I O N

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.

F E A T U R E S

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.

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Camera

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,
	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
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, 1280x720,
	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
Wide dynamic range	120 dB
SNR	50 dB
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

Analytics

Specs

Analytics

Event detections	External Input, Network Failure Detection, Periodical Event, Tampering, Audio Detection, Manual Trigger
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, ACC, LPCM

Alarm

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 encryption (TLSv1.2/v1.3), IEEE 802.1x port-based network access control, IP filtering, EAP-TLSv1.2/v1.3, SRTP, Signed firmware, Secure boot
Web Viewer	Internet Explorer 11, Microsoft Edge, Google Chrome, Mozilla Firefox

General

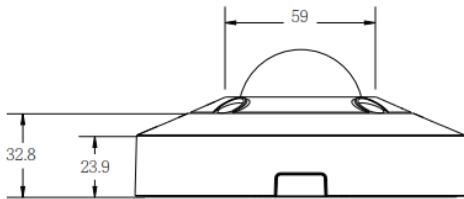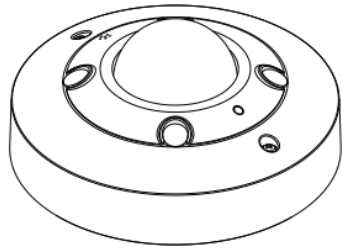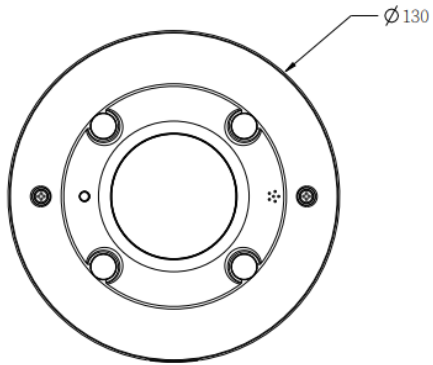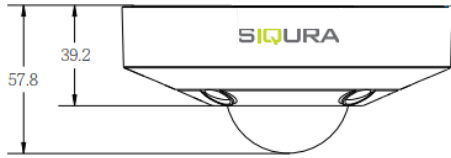|	
Protection Level	IP66, IK10
Material	Die cast aluminum and Plastic
Edge Storage	Built-in micro SD/SDHC/SDXC slot, up to 512 GB
Power	12 VDC +/- 10% (terminal block); PoE (IEEE 802.3af, max. 9.9W)
IR illumination	850nm IR LEDs, 5m IR Viewable Length
Start-up Temperature	-16°C
Operating temperature	-30°C to 60°C (-22°F to 140°F)
Relative humidity (Operating)	10 to 90%, No condensation
Storage temperature	-20°C to 70°C (-4°F to 158°F)
Relative humidity (Storage)	10 to 60%
Dimensions(camera body)	130 x 57.8 mm (5.11 x 2.27 In)
Weight	0.565 kg (1.24 lbs)
Colour	RAL 9003 (Signal white)

Ordering Information

FD360v2	12MP fisheye, H.265/H.264, IR, IP66/IK10

Specs

Ordering Information	
CM23	Flush mount kit for FD360v2
TA27	Tube adapter/pendant mount for FD360v2, FD910 and FD980
WM27	Wall mount, for PD9x0
WM22	Wall mount (indoor), for FD360v2, FD950, FD980

39.2
57.8

Ø 130

59

32.8
23.9

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