

FD5006M

6MP IP Fixed dome camera with 5x motor zoom, IR, 1/2.5"

DESCRIPTION

*** Released, deliveries starting January 1 ***

The FD5006M is a 6 megapixel IP fixed dome camera providing clear images in any situation. A wide angle 2.7 .. 13.5 mm (5x motor zoom) motorized autofocus lens allows for easy setup and ensures sharp and clear images. The camera has a wide range of intelligent video analytics features to detect numerous events. Intelligent video encoding ensures good image quality and low storage costs. It offers many image enhancement techniques, such as BLC and HLC, Image stabilization, Defog and 3DNR; for further enhancement of the image, dedicated AI is assisting in the removal of the classical low-light artefacts such as noise and motion blur. FD5006M is capable of streaming out by HTTPS protocol.

FEATURES

1/2.5 Progressive scan CMOS

Max. 3296x1856 (6MP) resolution

2.7 .. 13.5 mm (5x motor zoom)

6MP 30fps, 1080p 60fps

120 dB WDR (Dual exposure HDR)

Triple stream H.264, H.264+, H.265, H.265+, and MJPEG

Day/Night with IR-cut filter / WDR / BLC

Al enforced embedded video analytics

ONVIF Profile S, T, G, M

NDAA Compliant





Description

Multi-stream multi-codec

The camera has triple stream capability for simultaneous streaming of H.264, H.264+, H.265, H.265+, and MJPEG. Multiple combinations of resolution, frame rate, and encoding can be configured to fit all possible live viewing and recording scenarios. The 6 megapixel 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 FD5006M to a video management system. The TKH Security signature SPI protocol is included as the easiest way to drive the camera in customized environments. In support of open standards, the camera is compliant with the ONVIF Profile S, T, G, and M. Any VMS today supports this camera via the ONVIF driver.

Image enhancement

The FD5006M utilizes advanced image processing technology. Crisp and detailed 6MP 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.

Truly remarkable about the camera is its AI enforced low-light sensitivity. Using this next-gen technology, the disadvantageous effects of low light environments such are noise and motion blur are effectively reduced by this camera, without the help of supplemental lighting.

Power source choices

The FD5006M can be powered by 12 Vdc, or over the network with PoE.

(c) 20250926



Camera	
Image sensor	1/2.5" CMOS
Max. Resolution	3296x1856 (6MP)
Max. Frame rate	60 (1080p)
Minimum scene illumination	0.008 lx (Color); 0 lx (B/W,
	IR lighting)); F1.6
Shutter Speed	1/4 1/100000 s
Lens	Motorized 2.7 13.5 mm (5x zoom), F1.6, DC-iris
Field of View	108 36 ° horizontal, 57 20 ° vertical
Focus Control	Auto, Manual
Slow Shutter	Supported
Day/Night	Automatic IR-cut Filter
IR illumination	50 m; 850 nm
Video	
Stream 1 resolutions	3296x1856, 3200x1800, 2880x1624, 2688x1520,
	1920x1080
Stream 2 resolutions	1280x720, 640x480, 480x240, D1, CIF
Stream 3 resolutions	640x480, 480x240, D1, CIF
Video Compression	H.264, H.264+, H.265, H.265+, MJPEG
H.264 profiles	Base profile, Main profile, High profile
H.265 profiles	Main profile
Video Bitrate	64 10000 Kbps
Bitrate Control	CBR, VBR
Number of video output streams	Up to 10
Region of interest	Supported, 8x
Video output	Supported, 1x (CVBS, BNC)
Image	
Image control	Brightness, Contrast, Saturation, Sharpness,
mage control	Whitebalance, AGC
Day/Night control	Auto, Day, Night, Timer
Wide dynamic range	120 dB (Dual exposure HDR)
SNR	50 dB
Image enhancement	BLC, HLC, Defog, 3DNR, 2DNR, ColorNR
Rotation	0, 180
Mirror	Mirror, Flip
Privacy masks	4 (Solid)
Text and picture overlay	6x Text, Date/time, Camera name, Picture
Digital Zoom	16x
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Mechanical adjustment	
Pan range	0 355°
Tilt range	0 90°

Specs



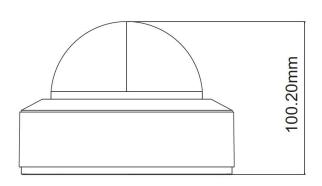
Line crossing, Intrusion detection, Zone enter, Zone exit, Scene changed, Left luggage, Object removed, Object counting, Loitering, Face detection, People counting, Illegal parking, Simultaneous AI, Video Metadata Motion detection, Tampering, Network disconnected, IP address conflict, Storage full, Storage error, Image quality, Bad focus, Audio detection, Periodical , Record video clip, Send message, Upload image
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IP address conflict, Storage full, Storage error, Image quality, Bad focus, Audio detection, Periodical
Bad focus, Audio detection, Periodical
, Record video clip, Send message, Upload image
1x Line IN (mono, 3.5mm connector)
1x Line OUT (mono, 3.5mm connector)
G.711alaw, G.711ulaw
1x Alarm IN
1x Digital OUT
10Base-T (IEEE 802.3i) / 100Base-TX (FE, IEEE 802.3u),
Self-adaptive RJ45, Flow control (IEEE 802.3x)
TCP, UDP, ICMP, HTTP, FTP, RTP, DHCP, DNS, DDNS, RTSP,
RTCP, PPPoE, NTP, UPnP, SMTP, SNMP v1/v2/v3, IGMP v1/v2/v3, 802.1x
QoS, IPv4, IPv6, SSL, TLS v1.0/v1.1/v1.2/v1.3, ONVIF Profile S/G/T/M,
SPI
ONVIF Profile S/G/T/M, SPI
Password, Complex password, HTTPS encryption,
802.1x port authentication, EAP, Watermark, IP address filter,
Basic authentication, Digest authentication, HTTP authentication,
ONVIF WSSE authentication, ONVIF digest authentication,
RTSP over HTTPS, RTSP over TLS, Logout after idle timeout,
Security audit log, TLSv1.2 (HTTPS, 802.1x), TLSv1.3 (HTTPS, 802.1x)
Microsoft Edge, Google Chrome, Mozilla Firefox
uSD, uSDHC, uSDXC, max. 256 GB
IP66, IK10
-30 60 °C (-22 140 °F)
Max. 95% (non-condensing)
-30 65 °C (-22 149 °F)

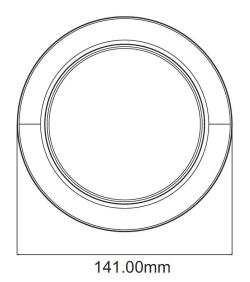




Environmental	
Power supply	12VDC (max. 10W), PoE 802.3af (max. 10W)
Mechanical	
Material	Metal and plastic
Product dimensions	141 x 141 x 100
Product weight	
Package dimensions	180 x 180 x 175
Package weight	1.2 kg (2.6 lbs)
Color	Signal white, black
Ordering Information	
FD5006M	6MP IP Fixed dome camera with 5x motor zoom, IR,
	1/2.5" CMOS
PM50	Pole mount, for BL50xxM, FD50xxM, FE5012
JBFD50	Junction box, for FD50xxM
WMFD50	Wall mount, for FD50xxM
CMFD50	Ceiling mount, for FD50xxM
WM50	Corner mount, for FD50xxM, FE5012









RELATED



TKH Security PM50

Pole mount, for BL50xxM, FD50xxM, FE5012



TKH Security JBFD50Junction box, for FD50xxM



TKH Security WMFD50 Wall mount, for FD50xxM



TKH Security CMFD50Ceiling mount, for FD50xxM



TKH Security WM50

Corner mount, for FD50xxM, FE5012