Features

- 1/2.8" Progressive scan CMOS imager
- 3MP @ 45 fps (2048 x 1536)
- Motorised 2.8 - 12 mm autofocus lens
- 120 dB WDR
- Built-in IR illuminator (effective distance: 30 m)
- Support defog, BLC, HLC
- Intelligent VCA
- Low bit rate, low latency
- Edge recording
- ONVIF Profile S and G conformant

FD1103M1-I
3MP Intelligent IP indoor fixed dome camera with IR

Description

The FD1103M1-I is a 3 megapixel IP indoor fixed dome camera providing clear images in any situation. A 2.8 to 12 mm motorised autofocus lens allows for easy setup and ensures sharp and clear images at all times. The camera has a wide range of intelligent features to offer good image quality at all times, low storage costs and video analytics to detect numerous events.

Multistream high definition
The integrated camera has multistream capability for simultaneous streaming of H.264/H.264 or H.264/MJPEG. Streaming 3 megapixel HD (2048 x 1536) @ 45 fps or full HD (1920 x 1080) @ 60 fps is possible. Multiple combinations of resolution and frame rate can be configured to satisfy different live viewing and recording scenarios.

Open standards
Multiple options are available to easily integrate the FD1103M1-I to a video management system. In support of open standards, the FD1103M1-I is compliant with a range of APIs and standards such as ONVIF (Profile S / Profile G).

Day/Night, BLC and WDR
The camera provides automatic day/night functionality, for use in low-light situations. Backlight compensation enhances image visibility in difficult lighting situations. This ensures quality pictures at all times. The wide dynamic range function brings details in the darker areas of an image without saturation in the brighter parts.

Power source choices
The FD1103M1-I can be powered with 12 Vdc or over the network with 802.3af compliant PoE sources.

Intelligent features
A wide variety of intelligent features can be used to influence image quality and fluency, such as smart IR, defog, BLC and HLC. With regional cropping, details can be seen in the image even with low bandwidth.
The camera features an extensive set of intelligent VCA which assists the operator in detecting any anomalies and watching over your safety.

Technical Specifications
FD1103M1-I

Camera

Image sensor	1/2.8'' Progressive scan CMOS
Lens	Motorised 2.8 - 12 mm, F1.4
Focus	Autofocus
Horizontal field of view	94.5° ~ 30.5°
Min. illumination	Colour: 0.07 lux, B/W: 0.007 lux, 0 lux with IR
Day/Night	IR-cut filter with auto switch
WDR	120 dB
Shutter speed	1 s ~ 1/100,000 s
Slow shutter	Support

Image control

Max. resolution	2048 x 1536
Frame rate	50 Hz: 45 fps @ 2048 × 1536, 50 fps @ 1920 × 1080 60 Hz: 45 fps @ 2048 × 1536, 60 fps @ 1920 × 1080
Third stream	Independent with main stream and substream, up to 50/60Hz: 10fps @ 1280 ×720
Image enhancement	BLC / HLC / 3D DNR / Defog
Image setting	Corridor mode, saturation, brightness, contrast, sharpness
Day/Night switch	Auto/Schedule/Triggered by Alarm In
Picture overlay	Picture can be overlaid on video with 128x128 24-bit bmp format
Privacy masks	4

Video

Video compression	H.264/MJPEG
H.264 type	Baseline Profile / Main Profile / High Profile
Video bit rate	32 Kbps – 16 Mbps
Region of interest	3 Areas with adjustable levels

Audio

Audio compression	G.711/G.722.1/G.726/MP2L2
Audio bit rate	64 kbps (G.711) / 16 kbps (G.722.1) / 16 kbps (G.726) / 32-128 kbps (MP2L2)
Environment noise filtering	Support
Audio I/O	Support dual audio track, stereo
Audio sampling rate	16 kHz / 32 kHz / 44.1 kHz / 48 kHz

Network

Network storage	NAS (Support NFS, SMB/CIFS), ANR
Alarm trigger	Motion detection, Tampering alarm, Network disconnect, IP address conflict, Storage exception
Protocols	TCP/IP, UDP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, Bonjour
Security	User authentication, Watermark, IP address filtering, Anonymous access
Standard	ONVIF (Profile S, Profile G), PSIA, CGI, ISAPI

Intelligent features

Behaviour analysis	Line crossing detection, Intrusion detection, Region entrance, Region exiting, Unattended baggage, Object removal
Line crossing detection	Cross a user-defined virtual line, unidirectional or bidirectional
Intrusion detection	Enter and loiter in a user-defined region
Region entrance	Enter a user-defined region
Region exiting	Exit from a user-defined region
Unattended baggage	Objects left in a user-defined region
Object removal	Objects removed from a user-defined region
Exception detections	Scene change detection, Sudden audio increase/decrease detection, Audio loss detection, Defocus detection
Recognition	Face detection recognition
Statistics	Object counting (Entrance and Exit object number is accounted and shown on screen in real time)

Mechanical

Audio	1x 3.5 mm audio in (mic in/line in) / out interface
Communication interface	1 RJ-45 10M/100M/1000M Ethernet port, 1 RS-485 interface
Alarm	1 input, 1 output (up to 24 Vdc 1 A or 110 Vac 500 mA)
Video output	1 Vp-p composite output (75 Ω/BNC)
Built-in IR illuminator	
Working distance	Up to 30 m
Wavelength	850 nm
On-board storage	Built-in micro SD/SDHC/SDXC slot, up to 128 GB
Reset button	Yes
Dimensions	Ø 140 x 122 mm
Weight	1400 g
Colour	RAL 9003 (signal white)

Environmental

Impact protection	IK10
Operating conditions	-30 °C – 60 °C (-22 °F – 140 °F), Humidity 95% or less (non-condensing)
Power supply	12 Vdc ± 10%, PoE (802.3af)
Power consumption	Max. 9 W

Ordering information

Models	Description
FD1103M1-I	Intelligent IP indoor fixed dome, 2.8-12 mm motorised, 3 MP, WDR, 60 fps, IR