Features

- 1/2.7" Progressive scan CMOS imager
- 3.0 10.5 mm Motorised varifocal lens
- Full HD 1080p resolution
- Quad-stream H.264 and MJPEG video
- Day/Night with IR-cut filter
- Built-in IR illuminator (effective distance: 25 m)
- IP66 Ingress protection rating
- 24 Vac / 12 Vdc / 802.3af PoE
- ONVIF Profile S conformant



FD820M1IR

High-definition fixed dome camera with IR

Description

The Siqura® FD820M1IR is a 1080p fixed dome network camera in a vandal-resistant housing. The modular snap-in chassis and motorised lens make the FD820M1IR easy to install, for both indoor and outdoor applications.

Multistream high definition

FD820M1IR series cameras have quad-stream capability for simultaneous streaming of H.264/H.264 or H.264/MJPEG. Multiple combinations of resolution and frame rate can be configured to satisfy different live viewing and recording scenarios. Full frame rate, full-HD 1080p streaming with a D1 second stream or dual 720p streaming is possible.

Open standards

Multiple options are available to easily integrate the FD820M1IR to a video management system. In support of open standards, the FD820M1IR is compliant with both the ONVIF specification and Siqura's Open Streaming Architecture (OSA) HTTP API.

Day/Night, BLC, and WDR

The FD820M1IR provides automatic day/night functionality for use in low-light situations. Backlight compensation (BLC) enhances image visibility in difficult lighting situations. This ensures quality pictures at all times. Wide dynamic range (WDR) solves the problem of overlit images by applying dynamic gain.

Power source choices

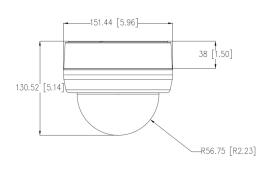
The FD820M1IR can be powered by 12 Vdc or 24 Vac (terminal block) or over the network with 802.3af-compliant PoE sources.

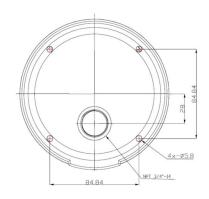
Privacy masks

Privacy masks cover sections of the image. This feature is often requested for such situations as city centre surveillance and point of sale keypads.



Technical Specifications FD820M1IR





Camera		
Image sensor	1/2.7" Progressive scan 1080p CMOS	
Pixel count	1920 (H) x 1080 (V)	
Shutter speed	1 - 1/10000 s	
Signal-to-noise ratio	>40 dB	
Lens	3.0 to 10.5 mm, F1.4	
Lens type	DC Auto iris, motorised zoom, focus	
Minimum scene illumination (30 IRE)	0.2 Lux colour, 0.02 lux (b/w) at F1.4	
Horizontal field of view	103.5° (W) - 34.3° (T)	
Analogue output	BNC (1 Vpp)	

lmage control	
Backlight compensation	On/Off
Wide dynamic range	On/Off
WDR value	70 dB
Contrast	Manual
Brightness	Manual
Saturation	Manual
Hue	Manual
Sharpness	Manual
White balance	Auto/manual
Noise reduction	Off, 3D (low, medium, high), SPQ (Smart Picture Quality), SPQ + 3D (3 levels)
Exposure	Auto/manual
Day/Night (IR-cut filter)	Auto/on/off/smart
Digital zoom	Yes
Automatic gain control	Auto

Functions	
Privacy masks	5
Image rotation	Flip, mirror, 90° (clockwise, counterclockwise), and 180° rotate
On-screen display	Date, time, and title (20 characters)
Local recording	Continuous, scheduled, alarm
Video motion detection	On/Off (10 zones)
Tamper monitoring	Blocked/moved image

Technical Specifications FD820M1IR

Video				
Number of video streams	4x H.264 or 3x H.	264 + 1x MJPEG		
Number of output streams	Up to 20 (RTSP)			
Frame rate	1 to 30 fps (NTSC) / 1 to 25 fps (PAL)			
Compression algorithm(s)	H.264 MP (ISO/IE	H.264 MP (ISO/IEC 14496-10); MJPEG		
Supported resolutions	1080p (1920x108) (352x240)	1080p (1920x1080); 720p (1280x720); 1024x768; 800x600; D1 (720x480); CIF (352x240)		
Video formats	NTSC, PAL	NTSC, PAL		
Encoder bit rate control	Constant bit rate	Constant bit rate (CBR), variable bit rate (VBR)		
Output bit rate (per H.264 stream)	Up to 8192 kbit/s			
Total output data rate	Up to 32 Mbit/s			
Maximum streaming capabilities	1	2	3	4
	H.264 1080p30	H.264 D1@30	-	-
	H.264 1080p30	H.264 CIF@30	H.264 CIF@30	H.264 CIF@30
	H.264 1080p15	H.264 1080p15	-	-
	H.264 1080p15	MJPEG 1080p15	-	-
	H.264 1080p15	H.264 720p30	H.264 D1@30	-
	H.264 1080p15	H.264 720p15	H.264 720p15	H.264 D1@30
	H.264 1080p15	H.264 D1@30	H.264 D1@30	H.264 D1@30
	H.264 720p30	H.264 720p30	H.264 D1@30	-
	MJPEG 1080p30	-	-	-
Audio				
Compression	G.711, 8 kHz, A-la	aw, µ-law, 64 kbit/s; G	i.726, 8 kHz, 40 kbit	/s
Contact closures				
nput	5 V 10 kΩ pull-up			
Output	Photocoupler tran	Photocoupler transistor output		
Connector type	4-Pin terminal blo	ck, pitch 3.5 mm		
-				
Storage -				
Storage options	Micro SD card, 64	GB		
Network				
Interface(s)	10/100 Ethernet (RJ-45)		
Protocols	IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, NTP, PPPoE, UPnP, IGMP, SNMP, QoS, 802.1x, ONVIF			
Password levels	User and Administrator			
Supported browsers	Internet Explorer	(6.0+), Chrome, Firefo	ox, Safari	
User accounts	20			

Technical Specifications FD820M1IR

Powering	
Power consumption	
System	Max. 5.5 W
IR LED	Max. 3.6 W
Heater	Max. 12 W
Motorised lens	Max. 3 W
Power	24 Vac / 12 Vdc / 802.3af PoE
Power connector	3-pin terminal block
Power adapter (included)	110 - 230 Vac to 12 Vdc, 1.5 A 50/60 Hz

Environmental		
Operating temperature		
12 Vdc / 24 Vac	-40 °C to +50 °C (-40 °F to +122 °F)	
PoE (no heater)	-10 °C to +50 °C (+14 °F to +122 °F)	
Relative humidity	10% to 90%, no condensation	
Ingress protection	IP66	
Impact rating	IK10	

Mechanical	
Dimensions	Ø151.4 x 130 mm (Ø5.96 x 5.14 in)
Weight	1 kg (2.2 lbs)
Colour	RAL 9003 (Signal white)
Connector types	RJ-45, BNC
Built-in IR illuminator	
Working distance	Up to 25m
Wavelength	850 nm
Number of LEDs	23

Ordering information	
Models	Description
FD820M1IR	Network fixed dome camera, 1080p CMOS, H.264/MJPEG, motorised lens, IR, IP66
WM02/FD	Tube adapter/pendant mount for FD6x/82x-series, indoor/outdoor
CM06	Flush mount kit for FD6x/82x-series
DC16FD	Smoked bubble accessory, FD6x/82x series





