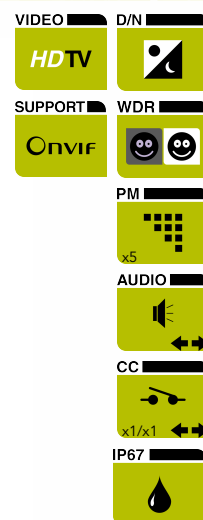


Features

- 1/2.7" progressive scan CMOS imager
- Full HD 1080p resolution
- H.264 and MJPEG compression
- Two-way audio
- 3-9 mm motorised varifocal lens
- Built-in IR illuminator (effective distance: 25 m)
- Day/night with IR-cut filter
- 5 privacy masks
- Micro SD support
- Sunshield and cable management
- ONVIF compliant



BL820M1IR

Full HD IR Bullet IP Camera

Description

The Siquira® BL820M1IR is an HD bullet camera with built in IR illumination providing clear images under any lighting condition. With its cable-managed bracket, IP67 construction and motorised lens, installation is fast and easy and remote adjustment is simple.

Multistream high definition

The BL820M1IR series cameras have dual-stream capability for simultaneous streaming of H.264/H.264 or H.264/MJPEG. Full HD 1080p streaming with a D1 second stream or dual 720p streams 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 BL820M1IR to a video management system. In support of open standards, the BL820M1IR is compliant with both the ONVIF specification and Siquira's Open Streaming Architecture (OSA) HTTP API.

Day/night, backlight compensation, and wide dynamic range

The BL820M1IR 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. Wide dynamic range solves the problem of overlit images by taking the better of two pictures with different light references.

Power source choices

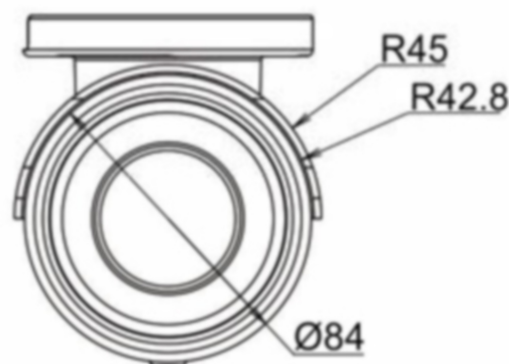
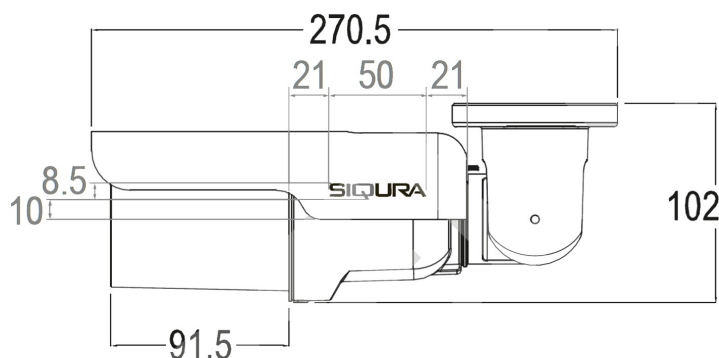
The BL820M1IR can be powered by 24 VAC (terminal block) or over the network with 802.3af-compliant PoE sources.

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

BL820M1IR



Camera

Image sensor	1/2.7" progressive scan CMOS
Effective pixels	1920(H) x 1080(V)
Shutter speed	1~1/10000 sec.
Signal-to-noise ratio	>40 dB
Lens	3.0 - 9.0 mm
Lens type	Varifocal/motorized lens F1.2/ f=3-9 mm
Minimum scene illumination	0.2 lux colour, 0.02 lux (b/w), F1.2; 0 lux with IR
FOV (16:9)	103.5° (w) ~ 34.3° (t)

Image control

Wide dynamic range	On/off
Backlight compensation	On/off
White balance	Auto/manual
Saturation	Manual
Hue	Manual
Brightness	Manual
Exposure	Auto/manual
Contrast	Manual
Sharpness	Manual
Noise reduction	Off, 3D (low, medium, high), SPQ (Smart Picture Quality), SPQ + 3D (3 levels)
Digital zoom	Yes

Functions

Privacy masks	5
Video motion detection	On/off
Tamper monitoring	On/off
Day/night (IR-cut filter)	Auto/on/off/Smart

Technical Specifications

BL820M1IR

Video

Number of video streams	2x H.264 or H.264/MJPEG
Compression algorithm(s)	H.264 MP (ISO/IEC 14496-10), MJPEG
Supported resolutions	1080p (1920x1080); 720p (1280x720); 1024x768; 800x600; D1 (720x480); CIF (352x240)
TV systems	NTSC, PAL
Maximum streaming capabilities	
Stream 1	H.264 1080p (25/30 fps) + MJPEG D1 (25/30 fps)
Stream 2	H.264 1080p (25/30 fps) + H.264 D1 (25/30 fps)
Analog output	BNC (1 Vpp)

Network

Interface(s)	10/100 Ethernet (RJ-45)
Protocols	IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, PPPoE, UPnP, IGMP, SNMP, IEEE 802.1x, QoS, ONVIF
Password levels	User and administrator
Supported browsers	Internet Explorer (6.0+), Chrome, Firefox, Safari
Security	HTTPS, IP Filter, IEEE 802.1X
User accounts	20

Audio

Two-way audio	Line out, line in/mic in (jack Ø3.5 mm)
Compression	G.711, 8 kHz, A-law, µ-law, 64 kbit/s; G.726, 8 kHz, 40 kbit/s

Contact closures

Input	5 V 10 kΩ pull-up
Output	Photo relay output 300 VDC/AC
Operational modes	Normally open; normally closed
Connector type	4-pin terminal block, pitch 3.5 mm

Storage

Storage options	Micro SD card, 64 GB
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Powering

Power consumption	System: 5 W (built-in IR illuminator: +3 W, motorised lens: +3.6 W, heater: +12 W)
Power	24 VAC/802.3at PoE+

Environmental

Operating temperature	-10 °C to +50 °C (+14 °F to +122 °F) w/Heater, powered by DC 12 V/AC 24 V: -40 °C ~ 50 °C (-40 °F ~ 122 °F)
Relative humidity	10% to 90%, no condensation

Technical Specifications

BL820M1IR

Mechanical

Dimensions	Ø 84 x 180 mm (Ø 3.3 x 7.1 in) with sunshield: Ø 84 x 193 mm (Ø 3.3 x 7.6 in)
Weight	0.94 kg (2.07 lbs)
Colour	RAL 9003 (signal white)
Built-in IR illuminator	
Working distance	up to 25 m
Wavelength	850 nm
Number of LEDs	23
Connectors	
Ethernet	RJ-45
Micro SD	Micro SD card, 32 GB
Audio out	Female stereo phone jack, ø 3.5 mm
Mic in / Line in	Female stereo phone jack, ø 3.5 mm
Alarm input / Alarm output	4-pin alarm wires
Analog output	1 Vpp 75 Ω BNC (gold-plated center pin)

Ordering information

Models	Description
BL820M1IR	Network bullet camera, 1080p CMOS, 3x motorised zoom, H.264/MJPEG, built-in IR
PA01 /EU	Power supply, 230 VAC, EU plug to 24 VAC, tinned leads, 1.5 A, indoor
PA01 /US	Power supply, 110 VAC, US plug to 24 VAC, tinned leads, 1.5 A, indoor
PA01 /UK	Power supply, 230 VAC, UK plug to 24 VAC, tinned leads, 1.5 A, indoor
PA02 /EU	Power supply, 230 VAC, EU plug to 24 VAC, tinned leads, 3.0 A, indoor
PA02 /UK	Power supply, 230 VAC, UK plug to 24 VAC, tinned leads, 3.0 A, indoor
PA02 /US	Power supply, 110 VAC, US plug to 24 VAC, tinned leads, 3.0 A, indoor
PA03 /EU	Power supply, 230 VAC to 24 VAC, tinned leads, 3.0 A, outdoor (IP66)
PA03 /US	Power supply, 110 VAC to 24 VAC, tinned leads, 3.0 A, outdoor (IP66)



The quality management system used in the development, production, sales, and support of this product is ISO 9001:2008 certified by LRQA.

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