BL822M1IR

Network bullet camera, 3-9 mm motorized, 2MP, H.264/MJPEG, IP66

- ✓ 1/2.8" Sensor
- ✓ 2 Megapixel @ 60 fps
- ✓ 3-9 mm motorized varifocal lens
- ✓ 120 dB WDR
- ✓ Quad-stream H.264 and MJPEG video
- ✓ Built-in IR illuminator
- ✓ IP66 Ingress protection,
- ✓ IK10 impact rating
- ✓ 24 Vac, 24 Vdc, 12 Vdc, 802.3af PoE
- ✓ ONVIF Profile S conformant

Description
The BL822M1IR is a 2MP HD bullet camera with built-in IR illumination providing clear images under any lighting condition. With its cable-managed bracket, IP66 construction, IK10 vandal resistant housing and motorised lens, installation is fast and easy, and remote adjustment is simple.

Multistream high definition
The camera has 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. 2 Mpixel resolution is available at 60 fps, a full-HD 1080p stream at 60 fps can be combined with a second stream at 30 fps. Each selected resolution-frame rate combination can be freely set to a stream number.

Open standards
Multiple options are available to easily integrate the BL822M1IR to a video management system. In support of open standards, the camera is compliant with the ONVIF Profile S specification.

Image optimalisation
The BL822M1IR provides automatic day/night functionality with configurable thresholds and build-in IR illuminator, for use in low-light situations. Backlight compensation enhances image visibility in difficult lighting situations. The BL822M1IR provides two modes for wide dynamic range. The first mode uses different gain ratios for different illumined areas to bring details in the darker areas of an image without saturation in the brighter parts. The second mode uses a 2 shutter mechanism which applies two different exposure settings to capture both darker and lighter areas with excellent details. The resulting image is the optimal aggregation of both exposures. The available image optimalisation methods ensure quality pictures at all times.

Power source choices
The BL822M1IR can be powered by 12 Vdc, 24 Vdc, 24 Vac, 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.

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BL822M1IR

Technical specifications

Camera	
Image sensor	1/2.8" Sensor
Effective pixels	1920 (H) x 1080 (V)
Minimum scene illumination	0.01 Lux @ F1.5 (IRE30), color, 0.001 Lux@ F1.5 (IRE30), 0 lux with IR
Shutter speed	1 ~ 1/10.000 sec
Lens	3.3 ~ 8 mm, F1.5
Lens type	Motorized Zoom & Focus
Horizontal field of view	115° (Wide) ~ 56° (Tele)

Functions	
Privacy masks	5
Text and picture overlay	Date, time, date & time, 5x subtitle (16 characters each), text string (25 characters), image, image transparency
Video motion detection	On, Off, By schedule
Video motion detection alarm	Alarm output, record video clip, send alarm message, upload image
Network failure detection	On, Off, By schedule
Network failure detection alarm	Alarm output, record video clip, send alarm message, upload image
Tamper detection	On, Off, By schedule
Tamper detection alarm	Alarm output, record video clip, send alarm message, upload image
Time laps	On/Off
Time laps action	Upload image
Recording	On, Off, By schedule
Recording destination	SD card/ Network share
Audio detection	On, Off, By schedule
Audio detection alarm	Alarm output, record video clip, send alarm message, upload image

Image control	
Wide dynamic range	On/Off
- WDR value	120 dB
Exposure	Auto, Manual
White balance	Auto, ATW, Manual, Indoor, Outdoor
Contrast	Manual
Brightness	Manual
Saturation	Manual
Hue	Manual
Sharpness	Manual
Day/Night function	Auto, Night, Day, Light sensor, IR light compensation
Noise reduction	Off, 3DNR (low, medium, high), 2DNR (On/Off), ColorNR (low, medium, high)
Backlight compensation	On/Off
Image rotation	Normal, Flip, Mirror, 180° Rotate

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Video				
Compression algorithm(s)	H.264 (baseline / main / high profile); MJPEG			
Number of compression instances	Quad stream. Any combination of H.264 streams with possibly one MJPEG stream.			
Output streams	Any output stream can be freely configured to one of the resolution/frame rate formats.			
Supported resolutions	1920x1080, 1280x1024, 1280x720, 1024x768, 800x600, 720x480, 640x480, 352x240, 176x120			
Compression capabilities	(indication, other combinations possible)			
Resolution format	format 1	format 2	format 3	format 4
H.264 instances in 50/60fps	1920x1080	-	-	-
	1280x1024	800x600	-	-
	1280x720	720x480	640x480	-
H.264 instances in 25/30fps	1920x1080	-	-	-
	1920x1080	1280x1024	-	-
	1920x1080	1280x1024	800x600	-
	1280x1024	1280x720	1024x768	800x600
MJPEG	One of the above resolution formats in each instance can be MJPEG instead of H.264 if the resolution is lower than or equal to 1920x1080			
Compression bit rate control	MBR			
Output bit rate (per H.264 stream)	Up to 8192 kbit/s			
Total H.264 output	26624 kbit/s			
Number of video output streams	Up to 20 (RTSP)			
Total output data rate (max)	50000 kbit/s			
Video frame rate	1 to 60 fps / 1 to 50 fps			
Analogue video output	PAL/NTSC			
Connector type	BNC (1.0 Vpp in 75 Ω) on breakout cable			

Audio	
Two-way audio	Line in, Line out
Compression	G.711 (µ-law, a-law) / G.726
Bit rate	G.711: 64 Kbps G.726: 16 Kbps, 24 Kbps, 32 Kbps, 40 Kbps
Sample rate	G.711: 8 KHz / G.726: 8 KHz
Input level, Output level	Adjustable gain
Connector type	Female phone jack, ø 3.5 mm on breakout cable

Alarm inputs/output	
Input	0 - 5 V, 10 kΩ pull-up
Output	Photo relay output 300 Vdc/ac
Operational modes	Normally open; normally closed
Connector type	Multifunction terminal block (D+, D-)

Storage	
Storage options	Supports up to 128 GB capacity of SD/SDHC/SDXC memory (fat32)
Network storage	NAS

Network	
Interface(s)	10/100 Ethernet
Network protocols	IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, PPPoE, IGMP, PNAC (IEEE 802.1x), QoS
Connector type	RJ-45 on breakout cable

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Management	
Supported browsers	Internet Explorer (6.0+), Chrome, Firefox, Safari
Security	HTTPS, IP Filter, PNAC (IEEE 802.1x)
Protocols	UPnP, SNMP, ONVIF Profile S
Password levels	User and Administrator
User accounts	20

Powering	
Power consumption	Max. 10 W
Power	24 Vac, / 24 Vdc, / 12 Vdc, / 802.3af PoE+
Connector type	2-pin terminal block on break-out cable

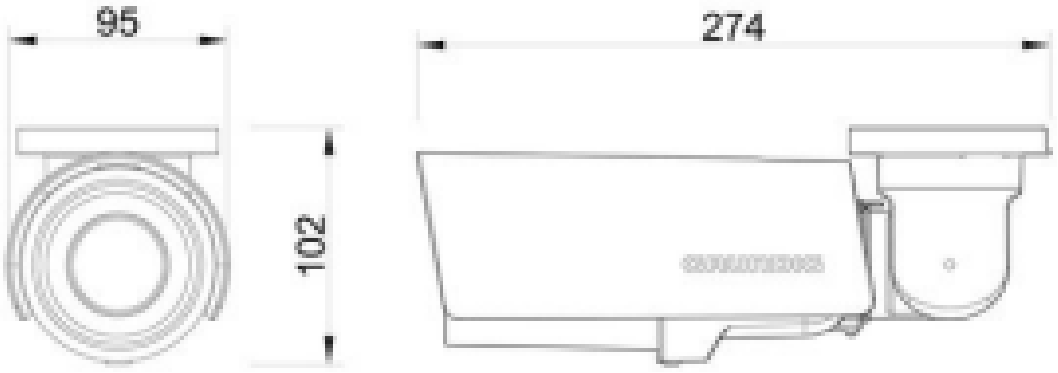
Environmental	
Operating temperature	-40 ºC to +50 ºC (-40ºF to 122ºF)
Relative humidity	10% to 90%, no condensation

Mechanical	
Dimensions	95 x 274 mm (3.74 x 10.79 In)
Weight	1 kg (2.2 lbs)
Color	RAL 9003 (Signal white)
Built-in IR illuminator	
- Working distance	Up to 30 m
- Wavelength	850 nm
- Number of LEDs	24
Ingress protection	IP66
Impact rating	IK10

Ordering information	
BL822M1IR	Network bullet camera, 3-9 mm motorized, 2MP, H.264/MJPEG, IP66, Ultra Low Light

Accessories		
JB07/BL		Junction box for BL8xx
PM09B/BL		Pole mount junction box for BL8xx

Dimensions



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

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