

# BL880v2M1IR

4K Network bullet camera, 4-8mm motorized,  
H.265/H.264/MJPEG

- ✓ 4K resolution, 8 MP @ 25 fps
- ✓ 4-8 mm motorized varifocal lens
- ✓ Quad-stream H.264 and MJPEG video
- ✓ 120 dB multi-exposure WDR (HDR)
- ✓ Built-in IR illuminator
- ✓ IP66 ingress protection
- ✓ IK10 impact rating
- ✓ 24 Vac, 12 Vdc, 802.3at PoE
- ✓ ONVIF Profile S, G and Q



## Description

The BL880v2M1IR is an 8MP HD bullet camera with built-in IR illumination providing 4K razor sharp images under any lighting condition. With its cable-managed bracket, IP66 construction, IK10 vandal resistant housing and motorized lens, installation is fast and easy, and remote adjustment is simple.

## Multi-stream high definition

The camera has quad-stream capability for simultaneous streaming of H.265, H.264 or MJPEG. Multiple combinations of resolution and frame rate can be configured to satisfy different live viewing and recording scenarios. 8 Mpixel resolution is available at 25/30 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 BL880v2M1IR to a video management system. In support of open standards, the camera is compliant with the ONVIF Profile S, G and Q specification.

## Image enhancement

The BL880v2M1IR provides automatic day/night functionality with configurable thresholds and built-in IR illuminator, for use in low-light situations up to 40m. Backlight compensation enhances image visibility in difficult lighting situations. The BL880v2M1IR high dynamic range uses multiple exposures to merge in a single frame, creating more image detail under challenging light conditions.

## Power source choices

The BL880v2M1IR can be powered by 12 Vdc, 24 Vac, or over the network with 802.3at-compliant PoE sources.

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## Technical specifications

Camera	
Image sensor	1/2" CMOS
Effective pixels	3872(H) x 2192(V)
Minimum scene illumination	0.1 Lux color, 0.01 Lux b/w, F/1.6 0 lux with IR
Shutter speed	1 to 1/10.000 sec
IR illumination	850 nm, up to 40 m
IR function	Auto, Night, Day, Light sensor, Light On, Light Off, Smart
Lens	Motorized varifocal
Focal length	4 to 8 mm F/1.6
Horizontal field of view	126° (Wide) to 59° (Tele)
Lens material	High-grade optical glass
Image control	
Dynamic range	120 dB (HDR)
Exposure control	P-Iris / Auto-Iris
White balance	Auto, ATW, One push, Manual
Image settings	Sharpness, Brightness, Contrast, Color, EV
SNR	Better than 50dB
Noise reduction	2DNR, 3DNR, motion compensated noise reduction
Image rotation	90°, 180°, 270° rotation
Digital zoom	10x
Functions	
Text overlay	Date, time, date & time, 5x subtitle (16 characters each), text string (15 characters), image, image transparency
Analytics	Motion detection, tampering, audio detection
Event actions	Contact activation; edge recording; FTP upload; Notification (FTP, HTTP, e-mail)
Video	
Compression algorithm(s)	H.265, H.264, MJPEG
Number streams	4x, individually configurable H.265/H.264/MJPEG streams in resolution, framerate and bandwidth.
Supported resolutions	3840x2160, 3200x1800, 1920x1080, 1280x1024, 1280x720, 1024x768, 800x600, 720x480, 640x480, 352x240
Max frame rate H.265 + HDR	4K (3840x2160) @ 25 fps 4K (3840x2160) @ 20 fps + 720p (1280x720) @ 30fps 6M (3200x1800) @ 30 fps + 720p (1280x720) @ 30fps
Max frame rate H.264 + HDR	4K (3840x2160) @ 30 fps 4K (3840x2160) @ 20 fps + 720p (1280x720) @ 30fps 6M (3200x1800) @ 30 fps + 720p (1280x720) @ 30fps
Max frame rate MJPEG	1080p (1920x1080) @ 30 fps
Compression bit rate control	Low bit rate (LBR), constant bit rate (CBR), variable bit rate (VBR)
Output bit rate (per stream)	Up to 20480 kbit/s
Number of video output streams	Up to 20 (RTSP)
Total output data rate (max)	50000 kbit/s
Audio	
Two-way audio	Line in, Line out
Compression	G.711 (μ-law, a-law) / G.726 / AAC / PCM
Input level, Output level	Adjustable gain
Connector type	Female phone jacks, ø 3.5 mm on breakout cable



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## Technical specifications

<b>Alarm inputs/output</b>	
Input	2
Output	1
Connector type	Terminal block on breakout cable
<b>Storage</b>	
Storage options	Supports up to 128 GB capacity of SD/SDHC/SDXC memory (vFAT/EXT4)
Network storage	NAS
<b>Network</b>	
Interface(s)	10/100 Ethernet
Network protocols	IPv4/v6, TCP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SNMP, SMTP, DHCP, UPnP, PPPoE, IGMP, IEEE 802.1x, QoS
Connector type	RJ-45 on breakout cable
<b>Management</b>	
Supported browsers	Internet Explorer 9, 10 and 11 (limited support for Edge, Chrome, Firefox, Safari)
Security	HTTPS, IP Filter, IEEE 802.1x, digest authentication
Protocols	UPnP, SNMP, ONVIF Profiles S, G, and Q, Siqua API
Password levels	User and Administrator
User accounts	20
<b>Powering</b>	
Power consumption	Max. 13.68 W
Power	24 Vac / 12 Vdc / 802.3af PoE class 0
Connector type	3 Pin terminal block on breakout cable
<b>Environmental</b>	
Operating temperature	-55°C~55°C(-67°F~131°F)
Relative humidity	10% to 90%, no condensation
<b>Mechanical</b>	
Dimensions	Ø 92 x 216.6 mm
Weight	780 g
Color	RAL 9003 (Signal white)
Ingress protection	IP66
Impact rating	IK10
<b>Ordering information</b>	
BL880v2M1IR	4K Network bullet camera 4-8mm motorized H.265/H.264/MJPEG

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## Technical specifications

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



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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