

BL2002V2LPR

LPR bullet camera, 8–32 mm motorized lens, 2MP, H.265/H.264

DESCRIPTION

The BL2002v2LPR is an intelligent 2-megapixel IP bullet camera with built-in LPR. The license plate recognition uses the latest AI algorithm, ensuring the highest accuracy possible. The built-in IR illumination adapts to the lighting environment for the best and balanced exposure of the image up to 100 m. The long-range 8 to 32 mm motorized autofocus lens allows for easy setup and ensures sharp and clear images. The camera has a wide range of intelligent video analytics features to detect numerous events. Intelligent video encoding ensures good image quality and low storage costs.

FEATURES

1/1.8 ultra-low light CMOS imager

2MP @ 30 fps (1920x1080)

Motorized zoom (8 – 32 mm)

AI: LPR, perimeter and exception detection

Multi-codec multi-stream: 5x H.265, H.264, MJPEG

140 dB triple exposure WDR

Built-in IR illuminator (100 m)

IP67, IK10

ONVIF Profile S, G and T



Description

License plate recognition

With an accuracy of 95% the BL2002v2LPR captures license plates in both day and night. It can create alarms for both white-listed and black-listed license plates. The camera can be used to read license plates in multiple lanes and in both directions. Additional attributes about the vehicle such as vehicle type, color, brand etc are offered to craft the understanding of detected vehicles.

Multi-encoder & multi-streaming

The camera is capable of simultaneous streaming 5 different H.265, H.264 and MJPEG streams. Streaming 2-megapixel full-HD (1920 x 1080) at 30 fps. Multiple combinations of resolution, frame rate, and encoding can be configured to satisfy different live viewing and recording scenarios.

High-Efficiency Video Coding (HEVC)

H.265 or HEVC is a video compression standard, the successor of H.264. In comparison, H.265 offers about double the compression ratio at the same level of video quality or substantially improved video quality at the same bit rate. Thus saving bandwidth and recording space.

ONVIF

Multiple options are available to easily integrate the BL2002v2LPR into a video management system. In support of open standards, the camera is ONVIF conformant. Any VMS today supports this camera via its ONVIF driver.

Image enhancement

The BL2002v2LPR features a set of tools to enhance the image quality, such as smart IR, Defog, BLC, and 3D noise reduction.

Ease of installation

The BL2002v2LPR is fitted with a built-in junction box to make installation easy and dismisses the need for an external junction box.

(c) 20260420

Camera	
Image sensor	1/1.8" CMOS
Max. Resolution	1920x1080 (2MP)
Max. Frame rate	30 fps
Minimum scene illumination	0.0005 lx (Color); 0 lx (B/W, IR lighting); F1.2
Shutter Speed	1 .. 1/100000 s
Lens	Motorized 8 .. 32 mm (4x zoom), F1.2, Auto-iris
Field of View	42° .. 15° horizontal, 23.3° .. 8.6° vertical
Focus Control	Auto, Manual
Slow Shutter	Supported
Day/Night	Automatic IR-cut Filter
IR illumination	100 m; 850 nm

Video	
Stream 1 resolutions	1920x1080, 1280x720
Stream 2 resolutions	4CIF, 640x480
Stream 3 resolutions	1920x1080, 1280x720, 4CIF, 640x480
Stream 4 resolutions	1920x1080, 1280x720, 4CIF, 640x480
Video Compression	H.265, H.264, MJPEG
H.264 profiles	Baseline profile, Main profile, High profile
H.265 profiles	Main profile
Video Bitrate	32 .. 8000 kbps
Bitrate Control	CBR, VBR
Number of video output streams	Up to 6
Region of interest	Supported, 4x

Image	
Image control	Brightness, Contrast, Saturation, Sharpness, Whitebalance, AGC
Day/Night control	Day, Night, Auto
Wide dynamic range	120 dB
SNR	52 dB
Image enhancement	BLC, HLC, Defog, 3DNR, 2DNR
Rotation	Supported
Mirror	Off, Left/Right, Up/Down, Center
Privacy masks	8 (Solid)
Text and picture overlay	8x Text, Date/time, Camera name, Image (bmp)

Mechanical adjustment	
Pan range	0° .. 355°
Tilt range	0° .. 90°

Analytics	
Smart analytics	Line crossing, Intrusion detection, Zone enter, Zone exit, Scene changed, Left luggage, Object removed, Loitering,

Specs



Analytics

	License plate recognition
Event detections	Motion detection, Tampering, Network disconnected, IP address conflict, Invalid login, Storage full, Storage error, Image quality, Bad focus, Bad lighting, Bad contrast, Bad SNR, Audio detection
Event actions	Alarm output, Record video clip, Send message, Upload image

Audio

Audio input	1x Line IN (mono, 3.5mm connector)
Audio output	1x Line OUT (mono, 3.5mm connector)
Compression	G.711ulaw, G.711alaw, G.722.1, G.726, MP2L2, MP3, AAC

Alarm

Input	1x Alarm IN
Output	1x Digital OUT (max. DC 12 V, 30 mA)

Network

Interface	100Base-TX (FE, IEEE 802.3u), MDI/MDI-X Auto negotiation, Flow control (IEEE 802.3x)
Protocols	TCP, UDP, ICMP, HTTP, FTP, SFTP, RTP, DHCP, DNS, DDNS, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP v1/v2/v3, IGMP v1/v2, 802.1x, QoS, IPv4, IPv6, Bonjour, SSL, TLS v1.0/v1.1/v1.2, ONVIF Profile S/G/T, SPI, ISAPI, SMB, NFS, CIFS
Interoperability	ONVIF Profile S/G/T, SPI, ISAPI
Security	Password, Complex password, HTTPS encryption, 802.1x port authentication, EAP, Watermark, IP address filter, Basic authentication, Digest authentication, HTTP authentication, ONVIF WSSE authentication, ONVIF digest authentication, RTP over HTTPS, RTSP over HTTPS, Logout after idle timeout, Security audit log, TLSv1.2 (HTTPS, 802.1x), Signed firmware, Secure boot
Web browser	Internet Explorer 11, Microsoft Edge, Google Chrome, Mozilla Firefox
Local Storage	uSD, uSDHC, uSDXC, max. 1024 GB

Environmental

Protection Level	IP67, IK10
Operating temperature	-30 .. 60 °C (-22 .. 140 °F)
Relative humidity (Operating)	Max. 95% (non-condensing)
Storage temperature	-30 .. 60 °C (-22 .. 140 °F)
Relative humidity (Storage)	Max. 95% (non-condensing)
Power supply	DC 12 V +/-10% (max. 14.28W) PoE 802.3at class 4 (max. 16.8W)

Mechanical

Specs

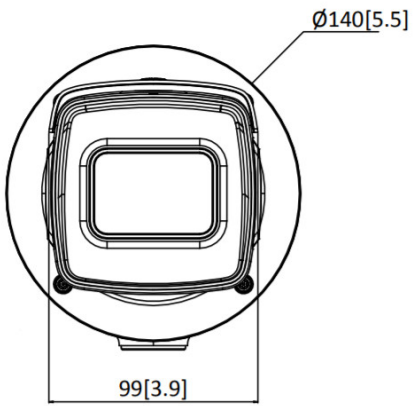
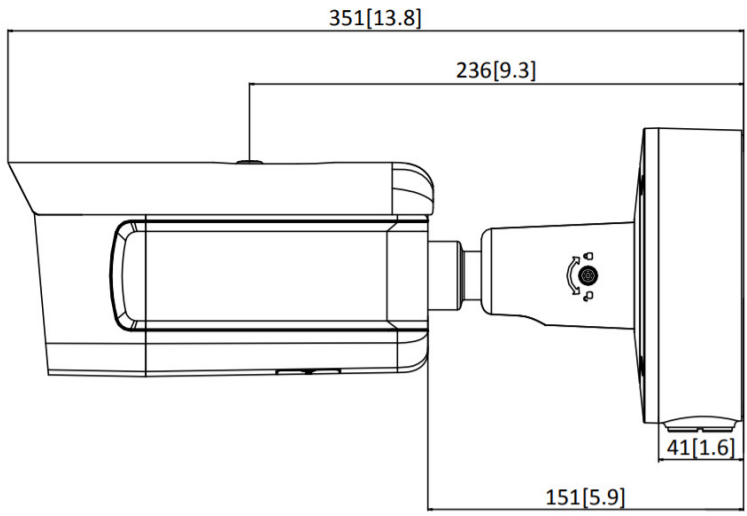


Mechanical

Material	Metal
Connectivity	Terminal connectors
Product dimensions	140 x 140 x 351
Product weight	2 kg (4.4 lbs)
Package dimensions	405 x 190 x 180
Package weight	3 kg (6.6 lbs)
Color	Signal white, black

Ordering Information

BL2002v2LPR	2MP IP Bullet camera with 4x motor zoom, IR, 1/1.8" CMOS, LPR
WM20	Corner mount, for 200xM, 200xv2M, 202xM
PM10	Pole mount, for BL/FD200xM1-EI, FD202xv2M, BL/FD200xM



RELATED



TKH Security WM20
Corner mount, for 200xM, 200xv2M, 202xM



TKH Security PM10
Pole mount, for BL/FD200xM1-EI, FD202xv2M, BL/FD200xM



TKH Security BLFG01
Front glass, for BL2002LPR, BL2002v2LPR
