

# **BL5006M**

# 6MP IP Bullet camera with 4x motor zoom, IR, 1/2.5" CMOS

#### DESCRIPTION

\*\*\* Planned release October 1, 2025 \*\*\*

The BL5006M is a 6 megapixel IP bullet camera providing clear images in any situation. A wide angle 2.8 .. 12 mm (4x zoom) 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. It offers many image enhancement techniques, such as BLC and HLC, Image stabilization, Defog and 3DNR; for further enhancement of the image, dedicated AI is assisting in the removal of the classical low-light artefacts such as noise and motion blur. BL5006M is capable of streaming out by HTTPS protocol.

#### **FEATURES**

1/2.5 Progressive scan CMOS

Max. 3296x1856 (6MP) resolution

2.8 .. 12 mm (4x motor zoom)

6MP 30fps, 1080p 60fps

120 dB WDR (Dual exposure HDR)

Triple stream H.264, H.264+, H.265, H.265+, and MJPEG

Day/Night with IR-cut filter / WDR / BLC

Al enforced embedded video analytics

ONVIF Profile S, T, G, M





## Description

#### Multi-stream multi-codec

The camera has triple stream capability for simultaneous streaming of H.264, H.264+, H.205, H.265+, and MJPEG. Multiple combinations of resolution, frame rate, and encoding can be configured to fit all possible live viewing and recording scenarios. The 6 megapixel resolution is available at 25/30 fps still offering multiple exposure WDR (or HDR, in short) with the possibility to add a second stream.

### Open standards

Multiple options are available to easily integrate the BL5006M to a video management system. The TKH Security signature SPI protocol is included as the easiest way to drive the camera in customized environments. In support of open standards, the camera is compliant with the ONVIF Profile S, T, G, and M. Any VMS today supports this camera via the ONVIF driver.

#### Image enhancement

The BL5006M utilizes advanced image processing technology. Crisp and detailed 6MP images with an extremely high dynamic range in real time due to multiple exposure HDR within one frame. Back-light and High-light compensation enhances image-visibility in difficult lighting situations. In addition the camera provides for 3D motion compensated noise reduction for the best images.

Truly remarkable about the camera is its AI enforced low-light sensitivity. Using this next-gen technology, the disadvantageous effects of low light environments such are noise and motion blur are effectively reduced by this camera, without the help of supplemental lighting.

#### Power source choices

The BL5006M can be powered by 12 Vdc, or over the network with PoE.

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Camera	
Image sensor	1/2.5" CMOS
Max. Resolution	3296x1856 (6MP)
Max. Frame rate	60 (1080p)
Minimum scene illumination	0.008 lx (Color); 0 lx (B/W,
	IR lighting)); F1.6
Shutter Speed	1/4 1/100000 s
Lens	Motorized 2.8 12 mm (4x zoom), F1.6, DC-iris
Field of View	108 36 ° horizontal, 57 20 ° vertical
Focus Control	Auto, Manual
Slow Shutter	Supported
Day/Night	Automatic IR-cut Filter
IR illumination	50 m; 850 nm
Video	
Stream 1 resolutions	3296x1856, 3200x1800, 2880x1624, 2688x1520,
	1920x1080
Stream 2 resolutions	1280x720, 640x480, 480x240, D1, CIF
Stream 3 resolutions	640x480, 480x240, D1, CIF
Video Compression	H.264, H.264+, H.265, H.265+, MJPEG
H.264 profiles	Base profile, Main profile, High profile
H.265 profiles	Main profile
Video Bitrate	64 10000 Kbps
Bitrate Control	CBR, VBR
Number of video output streams	Up to 10
Region of interest	Supported, 8x
Video output	Supported, 1x (CVBS)
Image	
Image control	Brightness, Contrast, Saturation, Sharpness,
	Whitebalance, AGC
Day/Night control	Auto, Day, Night, Timer
Wide dynamic range	120 dB (Dual exposure HDR)
SNR	50 dB
Image enhancement	BLC, HLC, Defog, 3DNR, 2DNR, ColorNR
Rotation	0, 180
Mirror	Mirror, Flip
Privacy masks	4 (Solid)
Text and picture overlay	6x Text, Date/time, Camera name, Picture
Image stabilization	Supported (EIS)
Digital Zoom	16x
Mechanical adjustment	
Pan range	0 360°

# Specs



Mechanical adjustment	
Tilt range	0 90°
Analytics	
Smart analytics	Line crossing, Intrusion detection, Zone enter,
	Zone exit, Scene changed, Left luggage, Object removed,
	Object counting, Loitering, Face detection, People counting,
	Illegal parking, Simultaneous AI, Video Metadata
Event detections	Motion detection, Tampering, Network disconnected,
	IP address conflict, Storage full, Storage error, Image quality,
	Bad focus, Audio detection, Periodical
Event actions	, Record video clip, Send message, Upload image
A !	
Audio	
Audio input	1x Line IN (mono, 3.5mm connector)
Audio output	1x Line OUT (mono, 3.5mm connector)
Compression	G.711alaw, G.711ulaw
Alarm	
Input	1x Alarm IN
Output	1x Digital OUT
Catput	TX Digital COT
Network	
Interface	10Base-T (IEEE 802.3i) / 100Base-TX (FE, IEEE 802.3u),
	Self-adaptive RJ45, Flow control (IEEE 802.3x)
Protocols	TCP, UDP, ICMP, HTTP, FTP, RTP, DHCP, DNS, DDNS, RTSP,
	RTCP, PPPoE, NTP, UPnP, SMTP, SNMP v1/v2/v3, IGMP v1/v2/v3, 802.1x,
	QoS, IPv4, IPv6, SSL, TLS v1.0/v1.1/v1.2/v1.3, ONVIF Profile S/G/T/M,
	SPI, TACACS+
Interoperability	ONVIF Profile S/G/T/M, SPI
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,
	RTSP over HTTPS, RTSP over TLS, Logout after idle timeout,
	Security audit log, TLSv1.2 (HTTPS, 802.1x), TLSv1.3 (HTTPS, 802.1x)
Web browser	Microsoft Edge, Google Chrome, Mozilla Firefox
Local Storage	uSD, uSDHC, uSDXC, max. 256 GB
Environmental	ID/7 1/40
Protection Level	IP67, IK10
Operating temperature	-30 60 °C (-22 140 °F)
Relative humidity (Operating)	Max. 95% (non-condensing)
Storage temperature	-30 65 °C (-22 149 °F)





Environmental	
Relative humidity (Storage)	Max. 95% (non-condensing)
Power supply	12VDC, PoE 802.3af
Mechanical	
Material	Metal
Product dimensions	278 x 100 x 89
Product weight	
Package dimensions	322 x 127 x 123
Package weight	1.5 kg (3.2 lbs)
Color	Signal white
Ordering Information	
BL5006M	6MP IP Bullet camera with 4x motor zoom, IR, 1/2.5" CMOS



#### RELATED



**TKH Security JBBL50**Junction box, for BL50xxM



**TKH Security PM50**Pole mount, for BL50xxM, FD50xxM, FE5012