BL2002PID

Long range 2MP network bullet camera with PID

D E S C R I P T I O N

The BL2002PID is an intelligent 2-megapixel IP bullet camera with built-in perimeter intrusion detection (PID). It is especially focused on perimeter surveillance applications, where traditionally the box camera would find purpose. Thanks to this model's long viewing range of up to 150m, including IR illumination. The PID function uses an AI algorithm, ensuring the highest accuracy possible. The long-range 4.7 to 71 mm (15x) motorized autofocus lens allows for a longer inter-camera distance, reducing materials cost. Intelligent video encoding ensures good image quality and low storage costs.

F E A T U R E S

1/2.8 ultra-low light CMOS imager

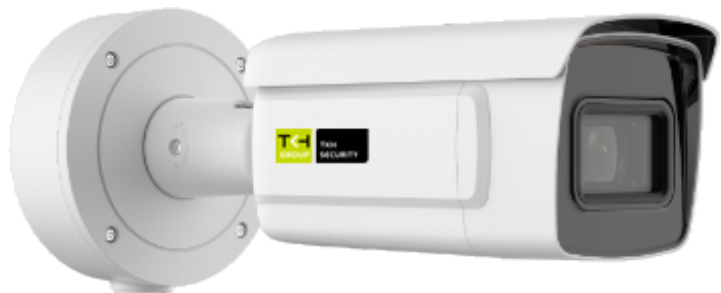2MP @ 60 fps (1920x1080)

Motorized zoom (4.7 - 71 mm)

Includes AI Smart perimeter intrusion detection

Multi-codec multi-stream: 4x H.265, H.264, MJPEG

Built-in IR illuminator (up to 150 m)

IP67, IK10

ONVIF Profile S, G, T

Camera

Image Sensor::1/2.8″ Progressive CMOS

Minimum scene illumination::Color: 0.002lux, B/W: 0lux with IR illumination on, F1.4, AGC

Shutter Speed::1 sec. to 1/30,000 sec.

Lens::Motorized 4.7 to 71 mm, F/1.6, DC-iris

Field of View::57.7° to 3.66° horizontal, 33.2° to 2.75° vertical

Focus Control::Autofocus

Slow Shutter::Support

Day/Night::Automatic IR-cut Filter

Video

Video Compression::H.265 (Main Profile) / H.264 (High Profile/Main Profile/Base Profile) / MJPEG

Video Bitrate::32Kbps to 8Mbps

Frame Rate::25/30fps

Number of simultaneous streams ::Four streams

Max. Streaming::

Bitrate Control::Constant bit rate (CBR), variable bit rate (VBR), Smart bitrate(H.265i, H.264i)**

Number of video output streams::Up to 20(RTSP)

Region of interest::Support

::*Monitor mode enabled. 3rd and 4th streaming are limited to 10fps.

::**Main Stream support

Image

Wide dynamic range::120dB

White Balance::Auto, Fixed, Manual

Image Setting::Saturation, Brightness, Contrast, Sharpness, Backlight Compensation,

::Highlight Compensation, WDR, Exposure control, Gain

SNR::≥52dB

Day/Night Switch::Auto/Scheduled/Triggered by Alarm In

Image Enhancement::3DNR, Defog, Lens Distortion Correction

Image Stabilization::Yes

Image Rotation::90°, 180°, 270° rotation

privacy masks:: Support

Text and picture overlay::Date & time, Preset title, Image overlay with 128 × 128 24-bit BMP format

Analytics

Smart Analytics::Line crossing detection (or Perimeter Intrusion Detection – PID)* with classification

::of humans/vehicles

Other analytics::Motion detection (with classification of humans/vehicles), video tampering alarm,

::out of focus detection, scene changed detection, sound volume changed detection,

::intrusion detection*, region entrance detection*, region exit detection*

Event detections::External input, external output, tampering, recording notification,

::network connection lost, IP address conflicted, illegal login

Event actions::Alarm output, record video clip to NAS/SD card, send alarm message and image

::by E-mail/FTP, Send HTTP notification

::*Available on Smart Event mode.

Alarm

Input::2x (max. 24VDC, 1A)

Output::2x (max. 24VDC, 1A)

Operational modes::Motion detection, Tampering alarm, Alarm I/O, Smart Analytics

Events

Network

Communication Interface::10/100/1000 Mb (RJ45)

Network protocols::IPv4/IPv6, HTTP, HTTPS (TLS1.2), 802.1x, QoS, FTP, SMTP(SSL), UPnP,

::SNMP(v1/v2/v3/Traps), DNS, DDNS, NTP, RTSP, RTCP, RTP/UDP, TCP/IP, IGMP(v2/v3),

::DHCP, PPPoE, SSL/TLS, SRTP, ONVIF Profile S/G/T,

::Siqura Programming Interface (SPI API)

Security::User authentication, Privilege Management, Digest authentication (RTSP, HTTP),

::HTTPS encryption (TLS1.1/1.2); SRTP, IEEE 802.1x port-based network access control,

::IP filtering, Signed firmware, Secure boot

Web Viewer::Internet Explorer 11, Microsoft Edge, Google Chrome, Mozilla Firefox

General

Protection Level::IP67, IK10

Material::Die cast aluminum

Edge Storage::Built-in micro SD/SDHC/SDXC slot, up to 256 GB

Power::DC12V (terminal block), max. 10.8 W; PoE (802.3af), max. 12.9 W

IR illumination::850nm IR LEDs, max. 150m IR Viewable Length

Operating temperature::-30°C ~ 60°C (-22°F ~ 140°F)

Relative Humidity (Operating)::95% or less, no condensation

Storage temperature::-30°C ~ 60°C (-22°F ~ 140°F)

Relative Humidity (Storage)::95% or less, no condensation

Dimensions(camera body)::144 mm × 140 mm × 349.2 mm (5.7″ × 5.5″ × 13.7″)

Weight::1.8kg

Colour::RAL 9003 (Signal white)

Ordering information

BL2002PID::Long range 2MP network bullet camera with PID

PM10::Pole mount, for BL/FD200xM1-EI, FD200xv2M, BL2002PID

PM10A::Pole mount, for BL200xv2M, BL2002PID

WM20::Corner mount, for 200xM/200xv2M series cameras, BL2002PID

Camera

Image Sensor	1/2.8" Progressive CMOS
Effective pixels	1920x1080 (2MP)
Minimum scene illumination	Color: 0.002lux, B/W: 0lux with IR illumination on, F1.4, AGC
Shutter Speed	1 sec. to 1/30,000 sec.
Lens	Motorized 4.7 to 71 mm, F/1.6, DC-iris
Field of View	57.7° to 3.66° horizontal, 33.2° to 2.75° vertical
Focus Control	Autofocus
Slow Shutter	Support
Day/Night	Automatic IR-cut Filter

Video

Video Compression	H.265 (Main Profile) / H.264 (High Profile/Main Profile/Base Profile) / MJPEG
Video Bitrate	32Kbps to 8Mbps
Max. Resolution	1920x1080 30fps
Supported Resolution	1920x1080, 1280x720, 704x576, 640x480
Frame Rate	25/30fps
Number of simultaneous streams	Four streams
Max. Streaming	
30fps*	1920x1080, 640x480, 1920x1080, 1280x720
30fps	1920x1080, 640x480
60fps(Shutter WDR OFF)	1920x1080
Bitrate Control	Constant bit rate (CBR), variable bit rate (VBR), Smart bitrate(H.265i, H.264i)**
Number of video output streams	Up to 20(RTSP)
Region of interest	Support
	*Monitor mode enabled. 3rd and 4th streaming are limited to 10fps.
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White Balance	Auto, Fixed, Manual
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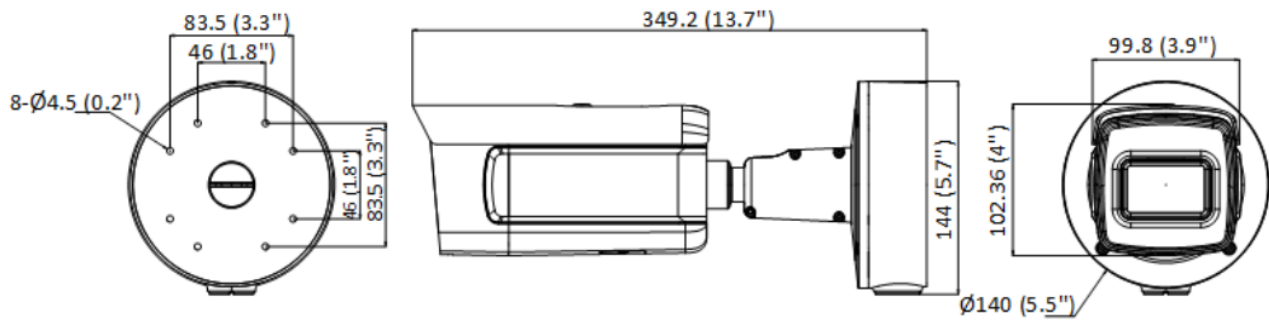|	
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PM10A	Pole mount, for BL200xv2M, BL2002PID

Specs

Ordering information

WM20	Corner mount, for 200xM/200xv2M series cameras, BL2002PID

83.5 (3.3")
46 (1.8")
8-Ø4.5 (0.2")
46 (1.8")
83.5 (3.3")

349.2 (13.7")
144 (5.7")

99.8 (3.9")
102.36 (4")
Ø140 (5.5")

Unit: mm (inch)

RELATED

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

TKH Security PM10A
Pole mount, for BL200xv2M, BL2002PID, BL202xM

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