

BC840-PID-XT

2MP box camera, H.264, PID, extended temp

DESCRIPTION

The BC840-PID-XT is a full-featured network camera providing high-quality, high-definition images. Its built-in Perimeter Intrusion Detection is based on i-LIDS certified video analytics for accurate and secure detection with the lowest possible false-alarm rate.

FEATURES

1/2.8" Progressive scan CMOS imager

Hardened: -40 °C to +75 °C

Full HD 1080p resolution

Built-in analytics for Perimeter Intrusion Detection

True Day/Night with IR-cut filter

Wide dynamic range

Analogue video output

Two-way audio

NTCIP protocol support

SFP Interface (optional)



Extended temperature

The BC840-PID-XT offers an extended temperature range of -40 °C to +75 °C. This is particularly useful in hot environments, such as deserts. With its passive cooling, the BC840-PID-XT boasts low energy consumption and high reliability.

Dual stream

The versatile BC840-PID-XT is capable of streaming two independent H.264/MJPEG streams simultaneously. The H.264 implementation is based on dedicated hardware resulting in unparalleled video quality.

Perimeter Intrusion Detection

The embedded analytics for PID is derived from software which is certified by i-LIDS® for primary sensor in a sterile environment. With two detection lines or two zones the PID analytics can be configured easily using the web interface. The quality of PID is determined by a number of external factors, such as lighting, field of view, camera mounting, shadows, etc. The BC840-PID-XT is suited for outdoor intrusion detection under well-lit conditions.

Interoperability

The BC840-MC supports Siquira programming interface (SPI) , which offers standardized streaming video and remote control based on a comprehensive HTTP API giving access to all controls and making integration easy. Additionally, the BC840-PID-XT fully supports ONVIF. It is compliant to ONVIF Profile S.

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.

Audio, I/O contacts, and analogue output

By combining streaming video with duplex audio and I/O contacts over IP, the BC840-PID-XT provides all the interfaces necessary for any IP CCTV application. The BC840-PID-XT is a hybrid solution and can provide local video for a public view monitor or local DVR.

SFP interface

The BC840-PID-XT-SFP model is equipped with an SFP interface. It supports the XSNet SFP range for Ethernet over fiber and the ECO-plug™ for Ethernet over coax.

Camera	
Image sensor	1/2.8 Progressive scan CMOS
Electronic shutter	1/25~1/10000 s
Minimum scene illumination (30 IRE)	0.1 lux colour; 0.01 lux (b/w)
Video output	1 Vpp, 75 , BNC
Output modes	NTSC/PAL
Lens mount	CS/C
Lens type	DC iris, manual
Auto iris drive	DC or manual
Composite video	BNC
Wide dynamic range	On/Off
WDR value	>60 dB

Functions	
Privacy masks	10
On-screen display	3x text lines (configurable: position, colour, border/outline colour, font size) 1x image in BMP, GIF, or JPEG format (configurable: position, scaling)
Video settings	User profiles, contrast, brightness, colour saturation, hue, sharpness, noise filter

Embedded analytics	
Video motion detection	Yes (free-drawn ROI)
Image quality monitor	Focus, contrast, SNR, exposure
Tamper detection	Partially blocked view, cloaked, changed position

Video	
Number of video streams	2x H.264 and/or MJPEG
Frame rate	1 to 30 fps
Compression algorithm(s)	H.264 BP, MP or HP (ISO/IEC H.264 / MPEG-4 AVC), MJPEG
Supported resolutions	1080p (1920x1080), 720p (1280x720), 960H, D1, VGA, 2CIF, CIF
Types of streaming	UDP/IP (multicast and/or unicast)
Number of output streams	Up to 20
Encoding latency	
GOP structure	I, IP
Output data rate	Up to 20 Mb/s

Embedded analytics	
Video motion detection	Yes (free-drawn ROI)
Image quality monitor	Focus, contrast, SNR, exposure
Tamper detection	Partially blocked view, cloaked, changed position
Intrusion detection (PID)	2x Detection zones, 2x detection lines
Minimum illumination	4 Lux
Detection zone	Entering, exiting, touch
Detection line	Directional crossing, touch
Additional features	Ignore line, minimum object size, perspective

Specs

Embedded analytics

Services	Parameter optimization
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Audio

Two-way audio	Line out, line in/mic in (jack diameter 3.5 mm)
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Data/serial port

Number of channels	1 (full-duplex)
Number of streams	2 x 3 (multicast and/or unicast)
Interface(s)	1x RS-422/485 (2- or 4-wire)
Streams	TCP, UDP, MX configurable
Data rate	300 b/s to 230.4 kbps
PTZ control interface(s)	Serial tunneling, webpage, HTTP (API), NTCIP (SNMP)
PTZ control protocols	Standard Pelco-D, Bosch, other remotely loadable protocols

Contact closures

Inputs	2
Outputs	2
Network Interface(s)	RJ-45 or SFP (modules not included)
Protocols	H.264 (BP, MP, HP), RTP, UDP, IP, DHCP, IGMPv2, RTSP, (S)NTP, MX/IP, HTTP(S), SNMP v2, DiffServ, SAP, UPnP, ONVIF, NTCIP, TLS1.2, Basic/Digest Authentication

Powering

Power consumption	7 W
Power	20 - 30 Vac, 11 - 30 Vdc, 802.3af PoE
Power adapter not included)	110 - 230 Vac to 12 Vdc, 1.5 A 50/60 Hz

Environmental

Operating temperature	-40 °C to +75 °C (-40 °F to +167 °F) (Nema TS-2)
Relative humidity	5% to 95%, no condensation
MTBF (Mean Time Between Failures)	>300,000 hours

Mechanical

Dimensions (h x w x d)	64.6 x 64 x 148 mm (2.54 x 2.52 x 5.83 in)
Colour	Black/Grey
Connector type	RJ-45, BNC

Ordering information

BC840-PID-XT	2MP box camera, H.264, PID, extended temp
BC840-PID-XT-SFP	2MP box camera, H.264, PID, extended temp, SFP
PSA-UN12-CF	Power Adapter, 110-230Vac 60/50Hz, 12Vdc, 2A, ferrules univ.
PSR-12DC	Power supply, rail-mount, 85-265Vac, 12Vdc, 1.5A

DIMENSIONS

