

# 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

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1/2.8" Progressive scan CMOS imager

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Hardened: -40 °C to +75 °C

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Full HD 1080p resolution

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Built-in analytics for Perimeter Intrusion Detection

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True Day/Night with IR-cut filter

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Wide dynamic range

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Analogue video output

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Two-way audio

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NTCIP protocol support

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SFP Interface (optional)

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### 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	1/3" Sony STARVIS Sensor
Electronic shutter	1/25~1/30000 s
Minimum scene illumination (30 IRE)	0.03 lux color; 0.015 lux (b/w)
Analog video output	1 Vpp, 75 , BNC
- Output modes	NTSC/PAL
- Connector	BNC
Lens mount	CS/C
Lens type	DC iris, manual
Auto iris drive	DC or manual
Wide dynamic range	On/Off
WDR value	>90 dB

Functions	
Privacy masks	10
On-screen display	3x text lines (configurable: position, color, border/outline color, font size) 1x image in BMP, GIF, or JPEG format (configurable: position, scaling)
Video settings	User profiles, contrast, brightness, color 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	120 ms

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
- In combination with VDG Sense	8x Detection zones, 8x detection lines, and more
- Minimum illumination	05 Lux
- Detection zone	Entering, exiting, touch
- Detection line	Directional crossing, touch
- Additional features	Ignore line, minimum object size, perspective
- Services	Parameter optimization

## Embedded Analytics

### Serial data ports

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
Data rate	300 b/s to 230.4 kbps
PTZ control interface(s)	Serial tunneling, webpage, HTTP (API), NTCIP (SNMP), ONVIF
PTZ control protocols	Pelco-D, Pelco-P, Bosch, Cohu, Hernis, Honeywell, Panasonic, Samsung, Vicon, Special driver is uploadable

### Contact closures

Inputs	2
Outputs	2

### Storage

Storage options	SDHC microSD card
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### 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, HTTPS, TLS1.0, SNMP v1/v2, DiffServ, SAP, UPnP, ONVIF, NTCIP

### Powering

Power consumption	7W
Power	20 - 30 Vac, 11 - 30 Vdc, 802.3af PoE
Power adapter (not included)	PSA-UN12-CF

### Environmental

Operating temperature	-40 °C to +75 °C (NEMA TS-2)
Relative humidity	10% to 90%, no condensation
MTBF (Mean Time Between Failures)	329,585 hours

### Mechanical

Dimensions (h x w x d)	73.8 x 64 x 148 mm (2.9 x 2.52 x 5.83 in)
Color	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
VL-XT288	Lens, 1/2.7 ", 2.8-8.0 mm, DC auto iris, IR, temp-hardened
VL-XT850	Lens, 1/2.7 ", 8.0-50.0 mm, DC auto iris, IR, temp. hardened

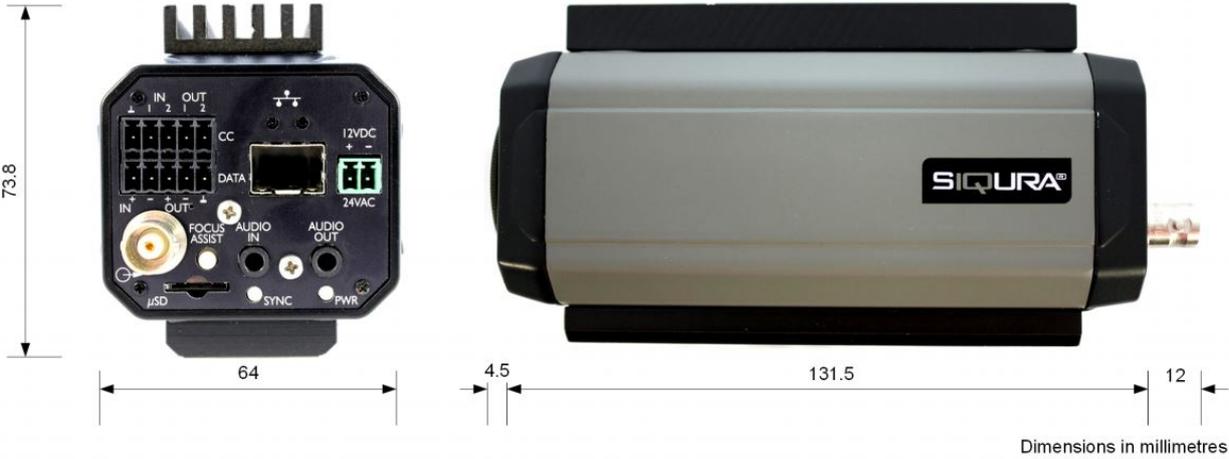
# Specs



## Ordering information

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**



Dimensions in millimetres