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
- Day/Night with IR-cut filter
- Wide dynamic range
- 2 Alarm inputs / 2 outputs
- Analogue video output
- Two-way audio
- 10 Privacy masks
- NTCIP protocol support



Note: Lens sold separately. See "Ordering information".

BC840-PID-XT Temperature-hardened IP camera with built-in PID

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 falsealarm rate.

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. When reliable detection is required you should contact TKH Security for expertise and configuration services.

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.

Image quality monitor and tamper detector

When the image from the camera becomes too poor, even for the encoder to enhance, an Image Quality alert is raised. The image is continuously monitored on contrast, exposure, focus, and noise by the unique Image Quality Monitor. In addition, the built-in tamper detector monitors changes in the position or field of view of the camera. The instant a camera's position is changed a Tamper Detect alert is raised.

ONVIF and Open Streaming Architecture (OSA)

The BC840-PID-XT supports both the international ONVIF standard and OSA for remote control, configuration, video switching, and streaming. The encoder has been approved for ONVIF Profile S for streaming, PTZ, and I/O. An alternative control interface is OSA, a comprehensive HTTP- and RTSPbased API for remote control of the encoder that makes full integration easy.

Edge recording

The BC840-PID-XT offers edge recording. A recording is activated when the connection with the network recorder is lost. The missing images are available as AVI, which can easily be downloaded from the device. The recordings are stored on a single μ SDHC card with a maximum capacity of 32 GB.



BC840-PID-XT



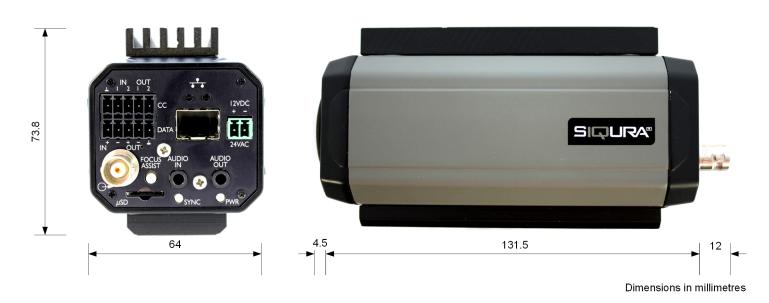
Audio, I/O contacts, and analogue output

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.

Technical Specifications



| Camera | |
|----------------------------|--------------------------------|
| Image sensor | 1/2.8" Progressive scan CMOS |
| Electronic shutter | 1/25 ~ 1/10000 s |
| Minimum scene illumination | 0.1 lux colour; 0.01 lux (b/w) |
| Video standards | NTSC/PAL (selectable via menu) |
| Output modes | Progressive scan |
| Video output | 1 Vpp, 75 Ω, BNC |
| Lens mount | CS Mount |
| 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 |

Technical Specifications BC840-PID-XT



| Video | |
|--------------------------|--|
| Number of video streams | 2x H.264/MJPEG |
| Frame rate | 1 to 30 fps |
| Compression algorithm(s) | H.264 BP, MP or HP (ISO/IEC 14496-10), MJPEG |
| Supported resolutions | 1080р (1920х1080), 720р (1280х720), 960Н, D1, VGA, 2CIF, CIF |
| Types of streaming | UDP/IP (multicast and/or unicast) |
| Number of output streams | Up to 20 |
| Encoding latency | <130 ms typ |
| GOP structure | I, IP (selectable/user profiles) |
| Output data rate | Up to 20 Mb/s (CBR or VBR selectable/user profiles) |
| | |
| Embedded analytics | |
| Video motion detection | Yes (free-drawn BOI) |

| 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 |
| Services | Parameter optimisation |
| | |

Audic

Two-way audio

Line out, line in/mic in (jack Ø3.5 mm)

| 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 |
| PTZ control interface(s) | Serial tunneling, webpage, HTTP (API), NTCIP (SNMP) |

| Contact closures | |
|------------------|---|
| Inputs | 2 |
| Outputs | 2 |

| Storage | | |
|-----------------|-------------------------|--|
| Storage options | Micro SDHC (32 GB max.) | |
| | | |

| 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, SNMP v2, DiffServ, SAP, UPnP, ONVIF, NTCIP |

Technical Specifications BC840-PID-XT



| 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 (NEMA TS 2) |
| Relative humidity | 10% to 90%, no condensation |

| Mechanical | |
|------------------------|---|
| Dimensions (h x w x d) | 73.8 x 64 x 148 mm (2.9 x 2.52 x 5.83 in) |
| Colour | Black/Grey |
| Connector type | RJ-45, BNC |

| Ordering information | |
|--------------------------|--|
| Models | Description |
| BC840-PID-XT | IP HD box camera, 1080p, Perimeter Intrusion Detection, extended temperature |
| BC840-PID-XT-SFP | IP HD box camera, 1080p, Perimeter Intrusion Detection, extended temperature, with SFP |
| PSA-UN12DC with ferrules | Power adapter,110 - 230 Vac, 60/50 Hz to 12 Vdc, 1.5 A , ferrules, with US/EU/UK plug adapters |
| PSR-12DC | Power supply unit, rail-mount, 85 to 265 Vac, 12 Vdc at 1.5 A |
| VL-XT288 | Lens, 1/3 inch, 2.8-8.0 mm, DC auto iris, IR-corrected, temperature-hardened |
| VL-XT850 | Lens, 1/3 inch, 8.0-50.0 mm, DC auto iris, IR-corrected, temperature-hardened |
| WM04 | Indoor wall bracket |
| HSG02LV | Housing,fixed camera, heater/blower, 90-230 Vac |
| HSG03LV | Housing, fixed camera, IR illuminator, heater/blower, 90-230 Vac |
| HSG/WALL | Bracket, wall |
| HSG/POLE | Bracket, pole |
| HSG/CORNER | Bracket, corner |
| HSG/CEILING | Bracket, ceiling |
| HSG/SUN | Housing fixed camera, sunshield |
| ECO-plug | Ethernet over coax, SFP Module, 100 Mb with accessory cable, 40 cm |
| XSNet SFP MM/ * | Multimode SFP, available in 1- or 2-fiber, different distance and speed ratings |
| XSNet SFP SM/ * | Single-mode SFP, available in 1- or 2-fiber, different distance and speed ratings |
| XSNet SFP SM/CWDM * | Single-mode CWDM SFP, available in 8 wavelengths |
| | |

* For a detailed overview of available SFP types consult appropriate product data.





The quality management system used in the development, production, sales, and support of this product is ISO 9001:2008 certified by LRQA.

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