

BC840-MC

2MP box camera, H.264/MPEG-4/MPEG-2

DESCRIPTION

The BC840-MC is a versatile ip box camera, with simultaneous streaming of H264, MJPEG, MPEG-2 and MPEG-4, multi-codec and multi-streaming. The camera can be used either in 4:3 aspect ratio mode, emulating the older IP-cameras or in the modern 16:9 H.260 full HD mode.

FEATURES

1/2.8" Progressive scan CMOS imager

Full HD 1080p resolution

Multi-codec, multi-stream (H.264/MPEG-4/MPEG-2/ MJPEG)

True Day/Night with IR-cut filter

Wide dynamic range

Analogue video output

Two-way audio

NTCIP protocol support

SFP Interface (optional)



Multistream/multicodec

The versatile BC840-MC camera is capable of quad streaming, with dual H.264 streams simultaneous with two flexible encoding outputs which can provide MPEG-2, MPEG-4 or MJPEG streams. Each stream is optimized for its purpose. The H.264 implementation is based on dedicated hardware resulting in unparalleled video quality. Image quality monitor and tampering alarm The BC840-MC is fitted with video analytics to check the health of the camera. This image quality monitor analyses contrast, exposure, sharpness and noise. Camera tampering analytics detect all changes in the camera's position or field of view. The instant a camera is subject to failure or tampering, an alert can be raised.

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-MC 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-MC provides all the interfaces necessary for any IP CCTV application. The BC840-MC is a hybrid solution and can provide local video for a public view monitor or local DVR.

SFP interface

The BC840-MC-SFP model is equipped with an SFP interface. It supports the XNet 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, 2x MPEG-4, MPEG-2, 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), MPEG-4 Layer 5 (ISO/IEC 14496-2), MJPEG-2 (ISO/IEC 13818-2), 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

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

Specs



Serial data ports

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	-30 °C to +50 °C (-22 °F to +122 °F)
Relative humidity	10% to 90%, no condensation
MTBF (Mean Time Between Failures)	329,585 hours

Mechanical

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

Ordering information

BC840-MC	2MP box camera, H.264/MPEG-4/MPEG-2
BC840-MC-SFP	2MP box camera, H.264/MPEG-4/MPEG-2, 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 IN MM

