BC822H2

Network box camera, 2MP CMOS, 18x zoom AF, Day/night, H.264/MJPEG, WDR

- ✓ 1/2.8" Progressive scan CMOS
- ✓ 2 Megapixels @ 60fps
- ✓ 18x Autofocus zoom lens
- ✓ 120 dB WDR
- ✓ Quad stream H.264 and MJPEG video
- ✓ Day/Night with IR-cut filter
- ✓ 24 Vac, 24 Vdc, 12 Vdc, 802.3af PoE
- ✓ ONVIF Profile S protocol support

Description

The BC822H2 is a full featured 2 megapixel IP box with good low light sensitivity and an integrated 18x zoom lens with Auto Focus. The camera provides high quality, clear images in any situation.

Multistream high definition

The camera has quad-stream capability for simultaneous streaming of H.264/H.264 or H.264/MJPEG. Multiple combinations of resolution and frame rate can be configured to satisfy different live viewing and recording scenarios. 2 Mpixel resolution is available at 60 fps, a full-HD 1080p stream at 60 fps can be combined with a second stream at 30 fps. Each selected resolution-frame rate combination can be freely set to a stream number.

ONVIF

Multiple options are available to easily integrate the BC822H2 to a video management system. In support of open standards, the camera is compliant with the ONVIF Profile S specification.

Image optimalisation

The BC822H2 provides automatic day/night functionality with configurable thresholds, for use in low-light situations. Backlight compensation enhances image visibility in difficult lighting situations. The BC822H2 provides two modes for wide dynamic range. The first mode uses different gain ratios for different illumined areas to bring details in the darker areas of an image without saturation in the brighter parts. The second mode uses a 2 shutter mechanism which applies two different exposure settings to capture both darker and lighter areas with excellent details. The resulting image is the optimal aggregation of both exposures.
The available image optimalisation methods ensure quality pictures at all times.

Power source choices

The BC822H2 can be powered by 12 Vdc, 24 Vdc, 24 Vac, or over the network with 802.3af-compliant PoE sources.

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.

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Technical specifications

Camera	
Image sensor	1/2.8" CMOS Progressive Scan
Effective pixels	1920(H) x 1080(V)
Minimum scene illumination	0.05 Lux @ F1.6 color, 0.004 lux @ F1.6 (b/w) @ F1.2 (IRE50)
Shutter speed	1 ~ 1/10.000 sec
Lens mount	C/CS mount
Iris control	Auto Iris (DC), Motorized Zoom & Focus
Lens	4.7 ~ 84.6 mm, F1.6
Horizontal field of view	55.2° (Wide) ~ 3.2° (Tele)

Functions	
Privacy masks	5
Text and picture overlay	Date, time, date & time, text string (15 characters)
Video motion detection	On, Off, By schedule
Video motion detection alarm	Alarm output, record video clip, send alarm message, upload image
Network failure detection	On, Off, By schedule
Network failure detection alarm	Alarm output, record video clip, send alarm message
Tamper detection	On, Off, By schedule
Tamper detection alarm	Alarm output, record video clip, send alarm message, upload image
Time laps	On/Off
Time laps action	Upload image
Face detection	On, Off, By schedule
Face detection action	Alarm output, record video clip, send alarm message, upload image
Audio detection	On, Off, By schedule
Audio detection action	Alarm output, record video clip, send alarm message, upload image
Recording	On, Off, By schedule
Recording destination	SD card/ Network share

Image control	
Wide dynamic range	Auto, P-iris, Iris, WDR multiple shutter
Exposure	Auto (max gain and minimum shutter speed configurable) Manual
White balance	Auto, ATW, Indoor, Outdoor, Manual
Contrast	Manual
Brightness	Manual
Saturation	Manual
Hue	Manual
Sharpness	Manual
Day/Night function	Auto, Night, Day, Smart
Noise reduction	Off, 3DNR (low, middle, high), 2DNR ((low, middle, high)
Backlight compensation	On/Off
Digital zoom	16x
Image rotation	Normal, Flip, Mirror, 180° Rotate

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Technical specifications

Video				
Compression algorithm(s)	H.264 (baseline / main / high profile); MJPEG			
Number of compression instances	Quad stream. Any combination of H.264 streams with possibly one MJPEG stream.			
Output streams	Any output stream can be freely configured to one of the resolution/frame rate formats.			
Supported resolutions	1920x1080, 1280x1080, 1280x1024, 1280x720, 1024x768, 800x600, 720x480, 640x480, 352x240			
Compression capabilities	(indication, other combinations possible)			
Resolution format	format 1	format 2	format 3	format 4
H.264 instances in 50/60fps	1920x1080	-	-	-
	1280x1024	800x600	-	-
	1280x720	720x480	640x480	-
H.264 instances in 25/30fps	1920x1080	-	-	-
	1920x1080	1280x1024	-	-
	1920x1080	1280x1024	800x600	-
	1920x1080	1280x720	800x600	720x480
MJPEG	One of the above resolution formats in each instance can be MJPEG instead of H.264 if the resolution is lower than or equal to 1920x1080			
Compression bit rate control	MBR			
Output bit rate (per H.264 stream)	Up to 8192 kbit/s			
Total H.264 output	26624 kbit/s			
Number of video output streams	Up to 20 (RTSP)			
Total output data rate (max)	50000 kbit/s			
Video frame rate	1 to 60 fps / 1 to 50 fps			
Analogue video output	PAL/NTSC			
- Connector type	BNC (1.0 Vpp in 75 Ω)			

Audio	
Two-way audio	Line in, Line out
Compression	G.711 (µ-law, a-law) / G.726
Bit rate	G.711: 64 Kbps G.726: 16 Kbps, 24 Kbps, 32 Kbps, 40 Kbps
Sample rate	G.711: 8 KHz / G.726: 8 KHz
Input level, Output level	Adjustable gain
Connector type	Female phone jack, ø 3.5 mm (2x)

Data	
Serial port	RS-485, 2-wire
Protocols	Pelco D, Pelco P
Connector type	Multifunction terminal block (D+, D-)

Alarm inputs/output	
Input	0 - 5 V, 10 kΩ pull-up
Output	1x Photo relay output 300 Vdc/ac
Operational modes	Normally open; normally closed
Connector type	Multifunction terminal block (I1+, I- I2+, O+, O-)

Storage	
Storage options	Supports up to 128 GB capacity of SD/SDHC/SDXC memory (fat32)
Network storage	NAS

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Technical specifications

Network

Interface(s)	10/100 Ethernet
Network protocols	ARP, DHCP, FTP, ICMP, IEEE 802.1 X, IPv4/IPv6, PPPoE, QoS, RTP, RTSP, SMTP, SNMP, TCP/IP, UDP, UPnP
Connector type	RJ-45

Management

Supported browsers	Internet Explorer (6.0+), Chrome, Firefox, Safari
Security	User account, HTTPS, IP Filter, IEEE 802.1x
Protocols	UPnP, SNMP, ONVIF Profile S
Password levels	User and Administrator
User accounts	20

Powering

Power consumption	Max. 9 W
Power	24 Vac / 24 Vdc / 12 Vdc / 802.3af PoE
Connector type	

Environmental

Operating temperature	-20°C ~ +55°C
Relative humidity	10% to 90%, no condensation

Mechanical

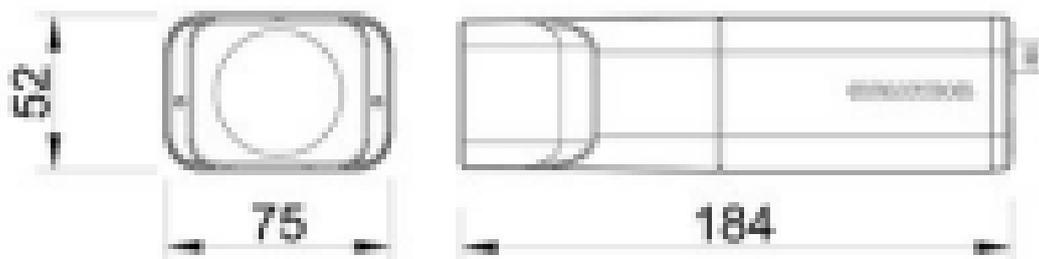|	
Dimensions (camera body)	184 x 81 x 53 mm (7.24 x 3.19 x 2.09 In)
Weight	0.45 kg (0.99 lbs)
Color	Black/Grey

Ordering information

BC822H2	Network box camera, 2MP CMOS, 18x zoom AF, Day/night, H.264/MJPEG, WDR
WM04A	Wall mount

Accessories

WM04A		Wall mount

Dimensons

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