

# BC822A

Network box camera, 2MP, Day/night, H.264/MJPEG, WDR, ABF

- ✓ 1/2.8" Progressive Scan CMOS
- ✓ 2 Megapixels Camera @ 60fps
- ✓ Auto Back Focus
- ✓ 120 dB WDR
- ✓ Quad stream H.264 and MJPEG video
- ✓ 24 Vac, 24 Vdc, 12 Vdc, 802.3af PoE
- ✓ ONVIF Profile S protocol support



## Description

The BC822A is a full featured 2 megapixel IP box with good low light sensitivity and Auto Back 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 BC822A to a video management system. In support of open standards, the camera is compliant with the ONVIF Profile S specification.

## Image optimisation

The BC822A provides automatic day/night functionality with configurable thresholds, for use in low-light situations. Backlight compensation enhances image visibility in difficult lighting situations. The BC822A provides two modes for wide dynamic range. The first mode uses different gain ratios for different illuminated 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 optimisation methods ensure quality pictures at all times.

## Power source choices

The BC822A 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.

### Camera

Image sensor	1/2.8" Progressive Scan CMOS
Effective pixels	1920(H) x 1080(V)
Minimum scene illumination	0.01 lux @ F1.2 color, 0.001 lux @ F1.2 (b/w) (IRE30)
Shutter speed	1 ~ 1/10.000 sec
Lens mount	C/CS mount
Iris control	DC Drive

### 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	On/Off
WDR value	120dB (Shutter WDR)
Exposure	Auto, Manual
White balance	Auto, ATW, Manual, One push
Contrast	Manual
Brightness	Manual
Saturation	Manual
Hue	Manual
Sharpness	Manual
Day/Night function	Auto, Night, Day, Smart
Noise reduction	Off, 3DNR (low, medium, high), 2DNR (On/Off), ColorNR (low, medium, high)
Backlight compensation	On/Off
Digital zoom	10x
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 1280x720	- 800x600 720x480	- - 640x480	- - -
H.264 instances in 25/30fps	1920x1080 1920x1080 1920x1080 1920x1080	- 1280x1024 1280x1024 1280x720	- - 800x600 800x600	- - - 720x576
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. 8 W
Power	24 Vac / 24 Vdc / 12 Vdc / 802.3af PoE
Connector type	

### Environmental

Operating temperature	-20 °C to +60 °C
Relative humidity	10% to 90%, no condensation

### Mechanical

Dimensions (camera body)	76 x 52 x 152 mm (2.99 x 2.05 x 5.98 In) (without lens)
Weight	0.4 kg (0.88 lbs)
Color	Black/Grey

### Ordering information

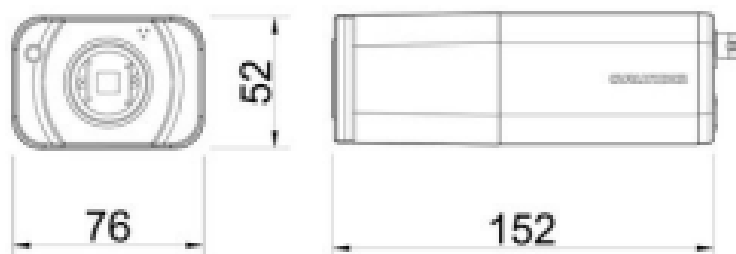
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WM04A	Wall mount

### Accessories

WM04A	Wall mount
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### Dimensions



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

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