BC880

Network box camera, 8MP, Day/night, H.264/MJPEG, DC-Iris, ABF

- ✓ 1/1.7" Progressive CMOS
- ✓ 8 Megapixels @ 25/30fps
- ✓ 4K Resolution
- ✓ Quad stream H.264 and MJPEG video
- ✓ 24 Vac, 24 Vdc, 12 Vdc, 802.3af PoE
- ✓ ONVIF Profile S protocol support

Note: lens sold separately

Description

The BC880 is a full featured 8 megapixel (4K) IP box camera. With its large sensor it combines high resolution with good low light sensitivity. 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. 8 Mpixel resolution is available at 25/30 fps, a full-HD 1080p stream at 50/60 fps can be combined with a 720p stream at 50/60 fps. Each selected resolution-frame rate combination can be freely set to a stream number.

ONVIF

Multiple options are available to easily integrate the BC880 to a video management system. In support of open standards, the camera is compliant with the ONVIF Profile S specification.

Image optimalisation

The BC880 provides automatic day/night functionality with configurable thresholds, for use in low-light situations. Backlight compensation enhances image visibility in difficult lighting situations. The BC880 provides wide dynamic range by using different gain ratios for different illumined areas to bring details in the darker areas of an image without saturation in the brighter parts.
The available image optimalisation methods ensure quality pictures at all times.

Power source choices

The BC880 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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BC880

Technical specifications

Camera	
Image sensor	1/1.7" Progressive CMOS 12 MP
Effective pixels	3840(H) x 2160(V)
Minimum scene illumination	0.05 Lux@F1.8 color, 0.005 Lux@ F1.8 (b/w)
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
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	Off, Low, Mid, High
WDR value	85dB
Exposure	Auto Iris, Auto shutter, Shutter Priority, Manual
White balance	Auto, ATW, One push, Manual
Brightness	Manual
Sharpness	Manual
Contrast	Manual
Saturation	Manual
Hue	Manual
Day/Night function	Auto, Night, Day, Light sensor, Smart With configurable day/night threshold levels
Noise reduction	3DNR (Off, Low, Mid, High), 2DNR (On/Off), ColorNR (Off, Low, Mid, High))
Backlight compensation	On/Off
Digital zoom	10x
Image rotation	Normal, Flip, Mirror, 180° Rotate, 90°clockwise, 90° counter clockwise

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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	3840x2160, 3200x1800, 1920x1080, 1280x1024, 1280x720, 1024x768, 800x600, 720x480, 640x480, 352x240, 320x240			
Compression capabilities	(indication, other combinations possible)			
Resolution format	format 1	format 2	format 3	format 4
H.264 instances in 50/60fps (or higher resolutions at lower frame rate)	1920x1080 1920x1080 1920x1080 1920x1080	- 1280x1024 1280x1024 1280x720	- - 640x480 800x600	- - - 352x240
H.264 instances in 25/30fps (or higher resolutions at lower frame rate)	3840x2160 3200x1800	- 1280x720	- -	- -
H.264 instances in 15fps	3840x2160	1920x1080	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	Constant bit rate (CBR), variable bit rate (VBR)			
Output bit rate (per H.264 stream)	Up to 20480 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)

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 (I+, I-, O+, O-)

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

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

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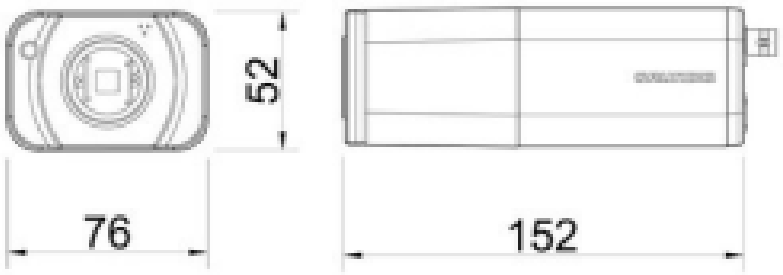
Technical specifications

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. 11.1 W
Power supply	24 Vac / 24 Vdc / 12 Vdc, PoE (IEEE 802.3af)
Connector type	Barrel connector (5.5 x 2.1 mm) Adapter to 2-pin terminal block included
Environmental	
Operating Temperature	-10°C to +50°C
Relative humidity	90% or less (no condensation)
Mechanical	
Dimensions (W x H x D)	76 x 52 x 152 mm (3.0 x 2.1 x 6.0 in)
Weight	0.39 kg (0.86 lbs)
Reset button	Yes
Color	Grey/Black
Ordering information	
BC880	Network box camera, 8MP, Day/night, H.264/MJPEG, DC-Iris, ABF
Accessories	
WM04A	Wall mount, Indoor, box camera

Dimensons



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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