

## Features

- Multiple resolutions: 1080p/720p
- 1/2.7" Progressive scan CMOS imager
- Quad-stream H.264 and MJPEG video
- ONVIF Profile S compliant
- Two-way audio
- Day/night with IR-cut filter
- Contact closures (alarms) - 1 output, 1 input
- SFP interface (BC820-SFP model)



**Note:** Lens sold separately. See Lenses datasheet.

## BC820

### High Definition Box Camera with Day/Night, H.264

#### Description

The Siqura® BC820 is a full-featured network box camera providing high-quality, high-definition images.

#### Multistream high definition

BC820 series cameras have 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. Full frame rate, full HD 1080p streaming with a D1 second stream or dual 720p streaming is possible.

#### Open standards

Multiple options are available to easily integrate the BC820 to a video management system. In support of open standards, the BC820 is compliant with both the ONVIF Profile S specification and Siqura's Open Streaming Architecture (OSA) HTTP API.

#### Day/night, backlight compensation, and wide dynamic range

The BC820 provides automatic day/night functionality, for use in low light situations. Backlight compensation enhances image visibility in difficult lighting situations. This ensures quality pictures at all times. Wide dynamic range solves the problem of overlit images by taking the better of two pictures with different light references.

#### 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.

#### Power source choices

All BC820 models can be powered by 12 Vdc or 24 Vac (terminal block). The BC820 model also supports powering over the network with 802.3af-compliant PoE sources.

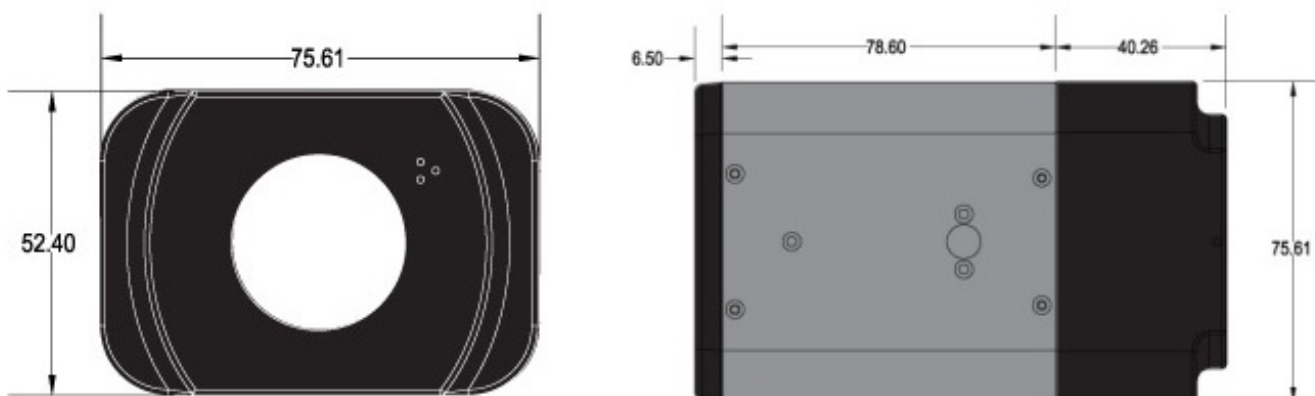
#### SFP interface

The BC820-SFP model offers an SFP interface for direct connection of fiber to the camera. The XSNet™ range of SFP modules, with options for both single mode and multimode is available.



# Technical Specifications

## BC820



### Camera

Image sensor	1/2.7" progressive scan CMOS
Video standards	PAL/NTSC
Output resolutions	1080p (1920x1080); 720p (1280x720); 1024x768; 800x600; D1 (720x576); CIF (352x288)
Effective pixels	1920(H) x 1080(V)
Digital slow shutter	1 - 1/15 s
Shutter speed	1 - 1/10000 s
Signal-to-noise ratio	>40 dB
Analogue output	BNC (1 Vpp)
Lens type	C/CS-mount
Minimum scene illumination (30 IRE)	0.2 lux colour; 0.02 lux (b/w)

### Image control

Backlight compensation	On/off
Wide dynamic range	On/off
WDR value	69 dB
Contrast	Manual
Brightness	Manual
Saturation	Manual
Hue	Manual
Sharpness	Manual
White balance	Auto/manual
3D Noise reduction	On/off
Iris control	DC iris
Exposure	Auto/manual
Day/night (IR-cut filter)	Auto/on/off/smart
Digital zoom	Yes

# Technical Specifications

## BC820

### Functions

Privacy masks	5
Privacy mask type	Colour
Video motion detection	10 user-defined; rectangular masking; adjustable detection level, sensitivity, time interval
Language support	English, French, German, Italian, Korean, Simplified Chinese, Traditional Chinese, Russian
Event notification	HTTP, FTP, SMTP
Tampering alarm	On/off

### Video

Number of video streams	4x H.264 or 3x H.264 + 1x MJPEG			
Number of output streams	Up to 20 (RTSP)			
Compression algorithm(s)	H.264 MP (ISO/IEC 14496-10), MJPEG			
Encoder bit rate control	Constant bit rate (CBR), Variable bit rate (VBR)			
Output bit rate (per H.264 stream)	Up to 8192 kbit/s			
Total output data rate	Up to 32 Mbit/s			
Maximum streaming capabilities	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
	H.264 1080p30	H.264 D1@30	-	-
	H.264 1080p30	H.264 CIF@30	H.264 CIF@30	H.264 CIF@30
	H.264 1080p15	H.264 1080p15	-	-
	H.264 1080p15	MJPEG 1080p15	-	-
	H.264 1080p15	H.264 720p30	H.264 D1@30	-
	H.264 1080p15	H.264 720p15	H.264 720p15	H.264 D1@30
	H.264 1080p15	H.264 D1@30	H.264 D1@30	H.264 D1@30
	H.264 720p30	H.264 720p30	H.264 D1@30	-
	MJPEG 1080p30	-	-	-

### Audio

Two-way audio	G.711, 8 kHz, A-law, $\mu$ -law, 64 kbit/s; G.726, 8 kHz, 40 kbit/s
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### Data

Serial port	RS-485 2-wire
Protocols	Pelco D, Pelco P

### Contact closures

Input	5 V 10 k $\Omega$ pull-up
Output	Photo relay output 300 Vdc/ac
Reactions	4-pin terminal block, pitch 3.5 mm

### Storage

Storage options	Micro SD card, 64 GB
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# Technical Specifications

## BC820

### Network

Interface(s)	10/100 Ethernet (RJ-45)
Protocols	IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, PPPoE, UPnP, IGMP, SNMP, IEEE 802.1x, QoS, ONVIF
Password levels	User and administrator
Supported browsers	Internet Explorer (6.0+), Chrome, Firefox, Safari
User accounts	20

### Powering

Power consumption	4 W
Power	
BC820	12 Vdc / 24 Vac / Power over Ethernet (PoE)
BC820-SFP	12 Vdc / 24 Vac
Power connector	Terminal block

### Environmental

Operating temperature	-10 °C to +50 °C (+14 °F to +122 °F)
Relative humidity	10% to 90%, no condensation

### Mechanical

Dimensions (h x w x d)	125 x 82 x 52 mm (without lens)
Weight	330 g (0.73 lbs)
Colour	Black/Grey

### Ordering information

Models	Description
BC820	Network box camera, 1080p, CMOS, day/night, H.264/MJPEG
BC820-SFP	Network box camera, 1080p, CMOS, day/night, H.264/MJPEG, SFP interface
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 (included)
WM04	Indoor wall bracket
HSG01	Housing, fixed camera
HSG02	Housing, fixed camera, heater/blower, 24 Vac
HSG02LV	Housing, fixed camera, heater/blower, 90-230 Vac
HSG03	Housing, fixed camera, IR illuminator, heater/blower, 24 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	Sunshield for fixed camera housing
MPL4080IR	1/2", 4 - 8 mm, F1.4, IR, MP
MPL40120IR	1/2", 4 - 12 mm, F1.4, IR, MP
VL33	1/2.7", 2.8 - 8.0 mm, F1.3, IR, 3MP
VL34	1/2", 8.0 - 80 mm, F1.6, IR, 3MP



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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