

Features

- 1/3" Pixim DPS® Seawolf imager with global shutter
- Super wide dynamic range
- Backlight compensation
- 10 privacy masks
- Built-in analytics for Perimeter Intrusion Detection
- Image quality monitor and tamper detector
- 24 VAC; 12 VDC/24 VDC; 802.3af PoE
- ONVIF compliant (Profile S)
- Dual H.264 streaming
- SFP option for Ethernet over fiber or coax



BC620WDR-PID

Dual H.264 IP Camera with Perimeter Intrusion Detection

Description

The Siquira BC620WDR-PID is a dual streaming IP camera with built-in video analytics for Perimeter Intrusion Detection (PID). The camera is equipped with a 1/3" Pixim Seawolf Imager with super wide dynamic range, accurately capturing all of the critical details in a scene including highlights, shadows, and everything in between without compromising image quality or colour accuracy. The built-in Perimeter Intrusion Detection is based on I-Lids certified video analytics for accurate and secure detection with the lowest possible false-alarm rate.

Dual stream

The versatile BC620WDR-PID is capable of streaming two independent H. 264/MJPEG streams simultaneously. The H.264 implementation is based on dedicated hardware resulting in unparalleled video quality.

Perimeter Intrusion Detection

The embedded analytics for PID is derived from software which is certified by I-Lids® for primary sensor in a sterile environment. With two detection lines or two zones the PID analytics can be configured easily using the web interface. The quality of PID is determined by a number of external factors, such as lighting, field-of view, mounting, shadows, etc. The BC620WDR-PID camera is suited for outdoor intrusion detection under well-lit conditions. When reliable detection is required you should contact Siquira for expertise and configuration services.

Image quality monitor and tampering alarm

The BC620WDR-PID 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 any 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.

Open Streaming Architecture (OSA) and ONVIF

The BC620WDR-PID, designed with OSA, offers standardised streaming video and remote control based on a comprehensive HTTP API giving access to all controls and making integration easy. Additionally, the BC620WDR-PID fully supports ONVIF. It has been tested to support 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 analog output

By combining streaming video with duplex audio and I/O contacts over IP, the BC620WDR-PID provides all the interfaces necessary for any IP CCTV application. The BC620WDR-PID is a hybrid solution and can provide local video for a public view monitor or local DVR.

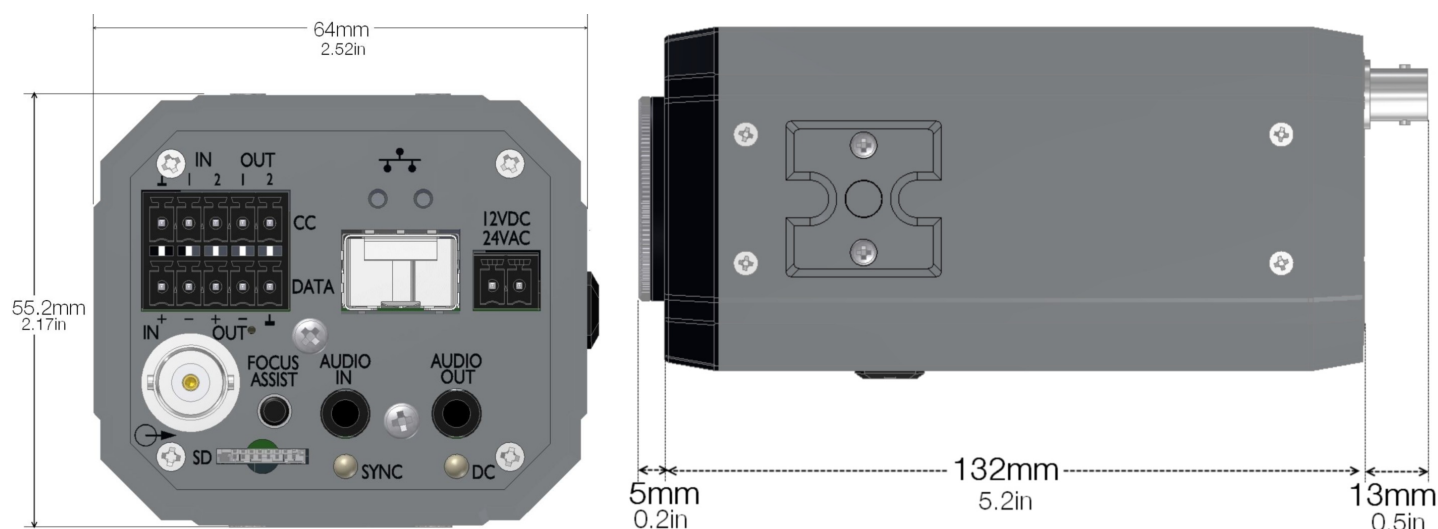
Fiber option

The BC620WDR-PID is available with an optional pluggable SFP slot for either multimode or single-mode fiber optic connections.



Technical Specifications

BC620WDR-PID



Camera

Image sensor	1/3" Pixim DPS® Seawolf imager
Video standards	NTSC/ PAL (selectable via menu)
Optical format	1/3" (6.3 mm diagonal)
Image capture	Progressive scan
Image resolution - horizontal	690 HTVLE
Image resolution - vertical	460+VTVL
Output resolutions	
D1	720x480 (NTSC)/ 720x576 (PAL)
½D1	352x480 (NTSC)/ 352x576 (PAL)
2CIF	720x240 (NTSC)/ 720x288 (PAL)
CIF	352x240 (NTSC)/ 352x288 (PAL)
QCIF	176x120 (NTSC)/ 176x144 (PAL)
Pixel count	720 (H) x 540 (V), 388,800 active pixels
Shutter	1/30 (1/25) ~ 1/30, 720 auto
Shuttering	Global electronic shuttering
Output modes	Interlaced or progressive
Video output	1 Vpp, 75 Ω, BNC
Lens mount	CS/C
Lens type	DC iris, manual
Signal-to-noise ratio	50 dB, 53 dB (maximum)
Minimum scene illumination	0.1 lux colour, 0.05 lux (b/w), F1.2, 50 IRE
Auto-iris drive	DC or manual
Composite video	BNC

Technical Specifications

BC620WDR-PID

Functions

Privacy masks	10
On-screen display	3x text lines (configurable: position, colour, border/outline colour, font size) 1x image in BMP, GIF, or JPEG format (configurable: position, scaling)
Video motion detection	Yes (user-defined masking)
Video settings	User profiles, contrast, brightness, colour saturation, hue, sharpness

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 MP or HP (ISO/IEC 14496-10), MJPEG
Types of streaming	UDP/IP (multicast and/or unicast)
Number of output streams	Up to 20
Encoding latency	<130ms typ
GOP structure	I, IP (selectable/ user profiles)
Dual streaming	2x D1 at 30 fps H.264/ MJPEG (CBR or VBR selectable/ user profiles)
Output data rate	Up to 20 Mb/s (CBR or VBR selectable/user profiles)

Network

Interface(s)	RJ-45 or SFP (modules not included)
Protocols	H.264 BP, MPEG-4 ES, MPEG-2, RTP, UDP, IP, DHCP, IGMPv2, RTSP, (S)NTP, MX/IP, HTTP, SNMP v2, DiffServ, SAP, UPnP, ONVIF

Audio

Two-way audio	Line out, line in/mic in (jack Ø3.5 mm)
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Embedded analytics

Image quality monitor	Focus, contrast, exposure, noise level
Tamper detection	Blocked view, changed position (16 presets)
Intrusion detection (PID)	2x detection zones or 2x detection lines
Minimum illumination	4 lux
Detection zone	entering, exiting, touch
Detection line	Directional crossing, touch
Additional features	Ignore line, minimum object size, perspective
Services	Parameter optimisation

Contact closures

Inputs	2
Outputs	2

Powering

Power consumption	7 W
Power	20-30 VAC, 11-30 VDC, 802.3af PoE
Power adapter (included)	110 - 230 VAC to 12 VDC, 1.5 A 50/60 Hz

Technical Specifications

BC620WDR-PID

Environmental

Operating temperature	Continuous -30 °C to +50 °C (-22 °F to +122 °F)
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Mechanical

Dimensions (h x w x d)	63.8 x 64 x 150 (2.51 x 2.52 x 5.90)
Colour	Black/Grey
Connector type	RJ-45, BNC
Remote control	RS-485, multidrop; camera ID

Ordering information

Models	Description
BC620WDR-PID	Network box camera, Super WDR, VCA, D1 resolution, dual H.264
BC620WDR-PID /SFP	Network box camera, Super WDR, VCA, D1 resolution, dual H.264 with 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)
Siqura WM-04	Indoor wall bracket
Siqura HSG01	Housing, fixed camera
Siqura HSG02	Housing, fixed camera, heater/blower, 24 VAC
Siqura HSG03	Housing, fixed camera, IR illuminator, heater/blower, 24 VAC
Siqura HSG02LV	Housing, fixed camera, heater/blower, 90-230 VAC
Siqura HSG03LV	Housing, fixed camera, IR illuminator, heater/blower, 90-230 VAC
Siqura HSG/WALL	Bracket, wall
Siqura HSG/POLE	Bracket, pole
Siqura HSG/CORNER	Bracket, corner
Siqura HSG/CEILING	Bracket, ceiling
Siqura HSG/SUN	Housing fixed camera, sunshield
ECO-plug	Ethernet over coax, SFP Module, 100 Mb with accessory cable, 40 cm
XSNet SFP MM/850	2-fiber multimode SFP (100/1000Base-FX)
XSNet SFP MM/1310	2-fiber multimode SFP (100Mb only)
XSNet SFP SM/10	Single-mode SFP, dual LC connector
XSNet SFP SM/BidiA	1-fiber single-mode SFP, SC connector
XSNet SFP SM/BidiB	1-fiber single-mode SFP, SC connector
XSNet SFP SM/60	Long distance single-mode SFP, dual LC connector
XSNet SFP SM/CWDM	CWDM SFP, dual LC connector



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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