

Features

- Quad-stream support of dual H.264, MPEG-2, MPEG-4, MJPEG
- Image quality monitor and tamper detector
- 35x optical zoom/12x digital zoom
- Day/night with IR-cut filter/WDR/BLC
- Electronic image stabilisation
- 400°/second preset targeting
- 360 degree continuous rotation
- 256 presets/8 programmable cruises
- Two-way audio; digital I/O
- Analog output/optical output options



HSD620

IP PTZ dome with day/night, wide dynamic range (indoor)

Description

The Siquira® HSD620 is an indoor High Speed PTZ dome camera with exceptional imaging controls to provide excellent pictures even in the most difficult circumstances.

High-speed dome

The HSD620 high-speed PTZ dome camera combines a 26x autofocus zoom lens with 12x digital zoom. Because the lens can move in almost any direction (pan and tilt), this camera offers a wide range of observation without missing the smallest details. In addition, the precision 400° per second pan and tilt drive technology offers almost instant preset positioning.

Image quality monitor and tampering alarm

The HSD620 is fitted with video analytics to check the health of the camera. This image quality monitor analyzes 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.

Enhanced video quality

Modern flat LCD monitors show artefacts with standard PAL or NTSC video. Standard de-interlacing loses half of the vertical resolution. Siquira's sophisticated de-interlacing scheme optimises vertical resolution resulting in superior video images without artefacts.

Open Streaming Architecture (OSA)

The HSD620 is designed with OSA offering standardised streaming video and remote control based on international standards and tested with different vendors. A comprehensive HTTP API gives access to all controls and makes integration easy. The HSD620 also supports the unique Siquira® MX™ protocol.

Multi-stream/multi-codec

The versatile HSD620 can simultaneously stream H.264, dual MPEG-4, MPEG-2, and MJPEG. Each stream is optimised for its specific purpose. The H.264 implementation uses dedicated hardware to improve video quality while lowering bandwidth requirements.

Day/night, backlight compensation, and wide dynamic range

The HSD620 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.

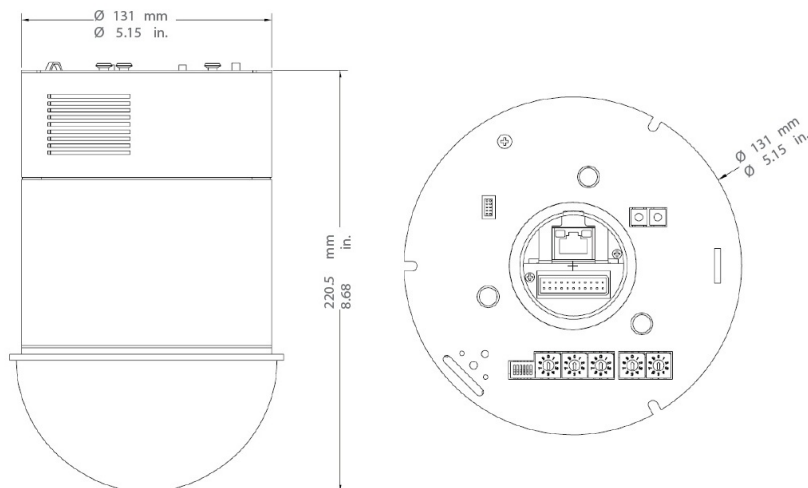
Audio, I/O contacts, and analog output

By combining streaming video with duplex audio and I/O contacts over IP, the HSD620 provides all the interfaces necessary for any IP CCTV application. The HSD620 is a hybrid solution and can provide local video for a public view monitor or local DVR.

Fiber option

A fiber option is available for direct connection of fiber to the camera via a flexible SFP interface. The XSNet™ range of SFP modules, with options for both single mode and multi-mode are certified for use with this camera. The SFP interface is built into the dome itself so a wide range of mounting options are available.

Technical Specifications



Camera

Image sensor	1/4" CCD
Image resolutions	NTSC/PAL
D1	720x480/720x576
1/2D1	352x480/352x576
2CIF	720x240/720x288
CIF	352x240/352x288
QCIF	176x120/176x144
Image resolution - horizontal	540TVL
Effective pixels	380k (NTSC)/440k (PAL)
Electronic shutter	1~1/10ks
Signal-to-noise ratio	>50dB (AGC off)
Minimum scene illumination	0.09lux colour, 0.01 lux (b/w)
Video output	1 Vpp, 75Ω, BNC
Focal length	3.5~91mm
Focus mode	Auto/manual

Technical Specifications

HSD620

Image control

Wide dynamic range	On/off
Backlight compensation	On/off
White balance	Auto/manual
Iris control	Auto/manual
Automatic gain control	Auto/manual
Day/night (IR-cut filter)	On/off
Digital slow shutter	On/off
Motion detection	On/off
Digital zoom	12x
Optical zoom	26x

Functions

Privacy masks	24
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)
Directional on-screen display	Compass direction, azimuth, elevation
Video motion detection	Yes (user-defined masking)
Video settings	User profiles, contrast, brightness, colour saturation, hue, sharpness
PTZ coordinate data	Via API or Pelco-D (set/get)

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 BP (ISO/IEC 14496-10), MPEG-4 SP Layer 5 (ISO/IEC 14496-2), MPEG-2 (ISO/IEC 13818-2), MJPEG
Types of streaming	UDP/IP (multicast and/or unicast) TCP/IP (RTP over RTSP)
Number of output streams	Up to 20
Encoding latency	<130ms typ
GOP structure	I, IP selectable/ user profiles
Quad streaming	2x D1 at 30fps H.264 + D1 at 30fps MPEG-4 + CIF at 1fps MJPEG
Output data rate	Up to 20 Mb/s (CBR or VBR selectable/user profiles)

Network

Interface(s)	RJ-45 (factory installed) or SFP cage (accessory included); 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

Audio

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

HSD620

Pan / Tilt

Pan travel	360° continuous
Tilt travel	-10°~190°
Preset speed	400°/s
Manual speed	0.5°~90°/s
Presets	256 presets
Preset accuracy	+/- .100°
Cruise	8
Sequence	8
Auto pan	4
Proportional pan and tilt	On/off
Resume after power loss	Yes
Zone title	16
Home function	Preset, sequence, auto pan, cruise
Auto flip	Digital, mechanical, off

Contact closures

Inputs	8
Outputs	1
Reactions	Preset, sequence, auto pan, cruise

Powering

Power consumption	27W
Power	19.2 - 28.4VAC (24 VAC nominal +/- 20%)

Environmental

Operating temperature	Continuous 0°C to +40°C (+32°F to +104°F)
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Mechanical

Dimensions	Ø190 x 302.5mm (Ø7.5 x 11.9in)
Housing	Aluminium
Colour	RAL 9003 (signal white)
Bubble	Optically clear polycarbonate

Technical Specifications

HSD620

Ordering information

Models	Description
HSD620/N	High-speed PTZ dome camera, IP, day/night, (NTSC)
HSD620/P	High-speed PTZ dome camera, IP, day/night, (PAL)
PA01 /EU	Power supply, 230VAC, EU plug to 24VAC, tinned leads, 1.5A, indoor
PA01 /UK	Power supply, 230VAC, UK plug to 24VAC, tinned leads, 1.5A, indoor
PA01 /US	Power supply, 110VAC, US plug to 24VAC, tinned leads, 1.5A, indoor
PA02 /EU	Power supply, 230VAC, EU plug to 24VAC, tinned leads, 3.0A, indoor
PA02 /UK	Power supply, 230VAC, UK plug to 24VAC, tinned leads, 3.0A, indoor
PA02 /US	Power supply, 110VAC, US plug to 24VAC, tinned leads, 3.0A, indoor
CM03 /HD	Hard ceiling mount indoor HD and MD10A/HSD and MSD620
WM01A/HD	Mini wall mount for HD/HSD series
WM02/HD	Tube adapter for indoor MD10x/620 and HD-series, compatible with CM01/02, WM01A, WM07A, PTM01
WM07A	Gooseneck tube
WM05	Corner plate, compatible with WM01A and WM07A
WM06	Wall box mounting, compatible with WM01A and WM07A
PM01	Pole thin direct mounting, compatible with WM01A and WM07A
PM02	Pole wide direct mounting, compatible with WM01A and WM07A
PM03	Pole thin box mounting, compatible with WM01A and WM07A
PM04	Pole wide box mounting, compatible with WM01A and WM07A
PM05	Swan neck tube
PTM01	1-1/2" pipe thread adapter
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
MFM	Multifunction monitor



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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