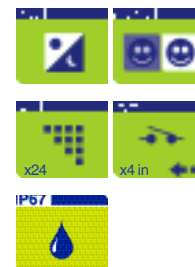# HSD620PRH

Pressurized IP PTZ dome with Day/Night

Features

- 26x Optical Zoom/12x digital zoom
- Day/Night with IR-cut filter
- Backlight Compensation
- Wide Dynamic Range
- 400°/second preset targeting
- 256 presets/8 programmable cruises
- Compass, Azimuth and elevation OSD
- 24 privacy masks
- Pressurized to 7psi; able to hold pressure for up to 1 year
- Low pressure sensor, Schrader and pressure relief valves standard
- IP 67 ingress protection
- 24 VAC

Description

The Siqura® HSD620PRH provides a robust housing which protects the camera in severe environments where excessive moisture, dirt, and pollution are present. In addition, advanced features such as Day/Night, Wide Dynamic Range and Backlight Compensation ensure excellent pictures in the most difficult of lighting situations.

Multi-Stream / Multi-Codec
The versatile HSD620PRH can simultaneously stream H.264, dual MPEG-4, MPEG-2, and MJPEG. Each stream is optimized for its specific purpose. The H.264 implementation uses dedicated hardware to improve video quality while lowering bandwidth requirements.

Open Streaming Architecture (OSA)
The HSD620PRH complies with worldwide approved standards for streaming video and is tested with different vendors, making third-party integration easy. Its OSA offers standardized streaming video and remote control. The HSD620PRH also supports the unique Siqura® MX™ protocol.

Camera Health Check and Tampering Alarm
The HSD620PRH is fitted with a unique feature that checks the health of the camera. This image quality monitor analyzes contrast, exposure, sharpness and noise, and immediately alerts an operator for any malfunctioning.

Superior Protection
The HSD620PRH has an IP67 ingress rating and the housing is constructed of materials designed to withstand intense levels of solar heat (945VA UV protected). Pressurizing the housing, particularly with inert nitrogen gas, will prevent moisture, pollution and dust from damaging the camera.

Day/Night, Backlight Compensation, and Wide Dynamic Range
The HSD620PRH provides automatic day/night functionality, for use in low light situations and Backlight Compensation functionality for use in different scenes. This means the HSD620PRH provides a clear picture for the operator, no matter what the lighting situation is. Wide Dynamic Range solves the problem of overlit images by taking the better of two pictures with different light references.

High-Speed Dome
This high-speed network PTZ dome has a 26x autofocus zoom lens with 12x digital zoom. Precision 400° per second pan and tilt drive technology offers almost instant preset positioning. The robust feature set includes multiple sequences, cruises, and autopan functions.

Privacy Masks
Privacy masks cover sections of the image and shrink or grow according to the camera's zoom. These are useful in applications such as city center surveillance.

Ordering Information

Models	Description
Siqura HSD620PRH /N	High-Speed Dome, Outdoor, Pressurized Hsg, 26x Opt. Zoom, Dual Stream H264, NTSC
Siqura HSD620PRH /P	High-Speed Dome, Outdoor, Pressurized Hsg, 26x Opt. Zoom, Dual Stream H264, PAL

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Camera

Image sensor	1/4" CCD	
Optical zoom	26x	
Digital zoom	12x	
Resolution	NTSC	PAL
Effective pixels	380k	440k
Horizontal resolution	540 TVL	540 TVL
D1	720x480	720x576
½D1	352x480	352x576
2CIF	720x240	720x288
CIF	352x240	352x288
QCIF	176x120	176x144

Electronic shutter	1~1/10 k s
Video output	1.0 Vpp/75Ω, RJ-45, SPF
S/N ratio	>50 dB (AGC off)
Minimum illumination	0.09 lux, 0.01 lux (B/W)
Focal length	3.5~91mm
Focus mode	Auto/ manual
White balance	Auto/ manual
Iris control	Auto/ manual
AGC control	Auto/ manual
Backlight compensation	On/ Off

Functions

Motion detection	On/ Off
Day/ Night (IR-cut filter)	On/ Off
Digital slow shutter	On/ Off
Wide Dynamic Range	On/ Off
Privacy masks	24
PTZ coordinate data	Via API or Pelco-D (set/get)
Directional OSD	Compass direction, Azimuth, Elevation

Contact Closures

Inputs	4 (3 general, 1 low pressure)
Reactions	Preset, Sequence, Auto pan, Cruise

Network

Interface options	RJ-45
Protocols	H.264 BP, MPEG-4 ES, MPEG-2, RTP, UDP, IP, DHCP, IGMPv2, RTSP, (S)NTP, MX/IP, HTTP, SNMPv2, DiffServ, SAP, UPnP

Mechanical

Dimension (h x w x d)	366 x 285 x Ø285 mm (14.4 x 11.2 x Ø11.2 in)
Weight	5 kg (11 lbs.)
Color	White/Black

Materials

Housing	Polycarbonate, glass-filled
Bubble	Clear, Polycarbonate 0.115" thick

Video

Number of video streams	2x H.264, 2x MPEG-4, MPEG-2, and/or MJPEG
Frame rate	1 to 30 fps
Compression algorithm	H.264 BP (ISO/IEC 14496-10), MPEG-4 SP Layer 5 (ISO/IEC 14496-2), MPEG-2 (ISO/IEC 13818-2), MJPEG
Type of streaming	UDP/IP (multi- and/or unicast) TCP/IP (RTP over RTSP)
Number of output streams	Up to 20
Video Motion Detection	Yes (user-defined masking)
Encoding latency	<130 ms typ
GOP structure	I, IP (selectable/user profiles)
Quad streaming	2x D1@30fps H.264 + D1@30fps MPEG-4 + CIF@1fps MJPEG
Output data rate	up to 20 Mb/s (CBR or VBR selectable/user profiles)
Video settings	User profiles, contrast, brightness, color saturation, hue, sharpness
Video overlay	3x Text lines (configurable: position, color, border/outline color, font size), 1x image in BMP, GIF, or JPEG format (configurable: position, scaling)

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	+/- 0.100°
Cruise	8
Sequence	8
Auto pan	4
Proportional pan & tilt	On/ Off
Resume after power loss	Yes
Zone title	16
Home function	Preset, Sequence, Auto pan, Cruise
Auto flip	Digital/ Mechanical/ Off

Environmental

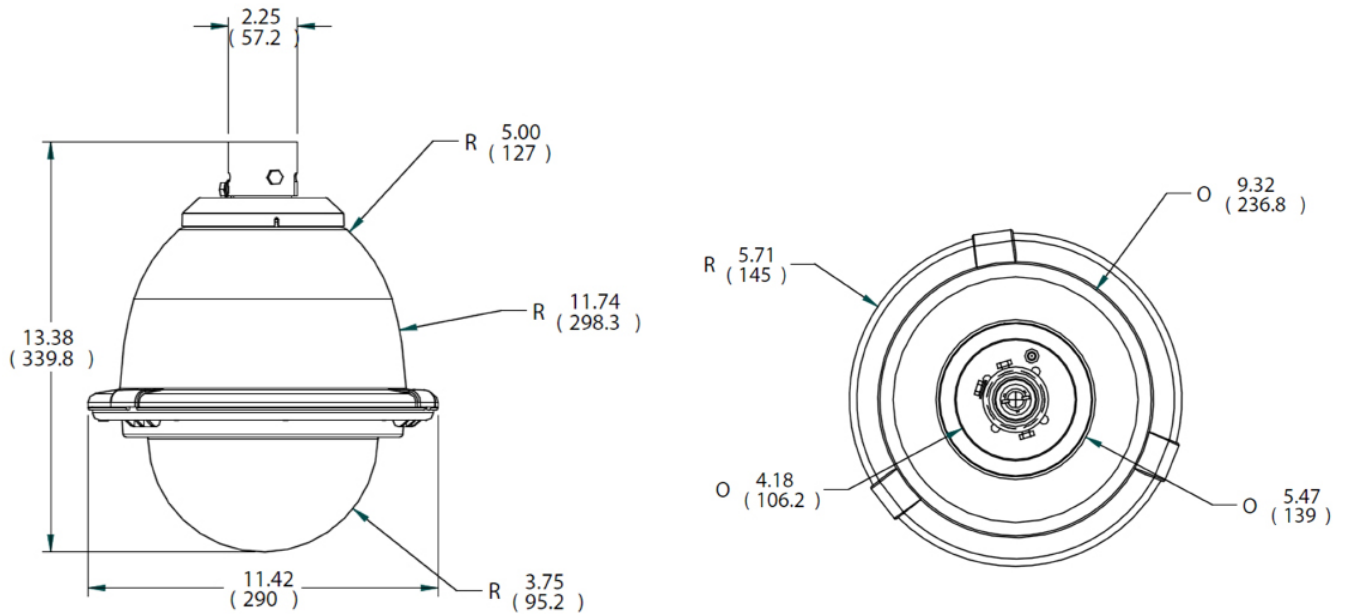|	
Operating temperature	Continuous -45° C to +50° C (-49° F to +122° F) 60° C. maximum
Ingress protection	IP67
Effective projected area	~0.12 m²

Powering

Power consumption	80W
Power	24 VAC

Ordering Information Accessories

Models	Description
WM01A	Mini wall mount for HD-series
WM03A	Gooseneck tube
WM05	Corner plate, compatible with WM01A and WM03A
WM06	Wall box mounting, compatible with WM01A and WM03A
PM01	Pole thin direct mounting, compatible with WM01A and WM03A
PM02	Pole wide direct mounting, compatible with WM01A and WM03A
PM03	Pole thin box mounting, compatible with WM01A and WM03A
PM04	Pole wide box mounting, compatible with WM01A and WM03A
PM05	Swanneck tube
PTM01	1-1/2" pipe thread adaptor

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