

Features

- Quad-stream support of dual H.264, MPEG-2, MPEG-4, MJPEG
- Image quality monitor and tamper detector
- 26x optical zoom/12x digital zoom
- Day/night with IR-cut filter/WDR/BLC
- 400°/second preset targeting
- 360 degree continuous rotation
- 256 presets/8 programmable cruises
- Two-way audio; digital I/O
- 24 privacy masks
- Analog output/optical output options



HSD622

IP PTZ dome with day/night, SFP interface (outdoor)

Description

The Siquira® HSD622 is an outdoor High Speed PTZ dome camera with exceptional imaging controls to provide excellent pictures even in the most difficult circumstances.

High-speed dome

The HSD622 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 HSD622 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.

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 HSD622 complies with worldwide approved standards for streaming video and is tested with different vendors, making third-party integration easy. Its OSA offers standardised streaming video and remote control. The HSD622 also supports the unique Siquira® MX™ protocol.

Multi-stream/multi-codec

The versatile HSD622 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 HSD622 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.

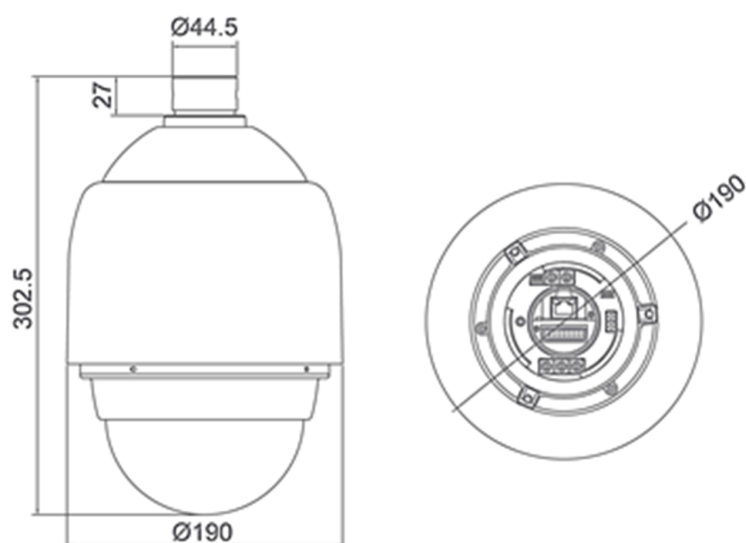
Complete system

The HSD622 combines streaming video with duplex audio and I/O contacts over IP and balanced audio inputs/outputs suitable for all industrial audio systems. With its analog output, the hybrid HSD622 solution 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



Technical Specifications

HSD622

Camera

| | |
|-------------------------------|--------------------------------|
| Image sensor | 1/4" CCD |
| Image resolutions | PAL/NTSC |
| D1 | 720x480/720x576 |
| ½D1 | 352x480/352x576 |
| 2/3 D1 | 480x480/480x576 |
| 4CIF | 704x480/704x576 |
| 2CIF | 720x240/720x288 |
| CIF | 352x240/352x288 |
| QCIF | 176x120/176x144 |
| VGA | 640x480 |
| QVGA | 320x240 |
| 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, RJ-45, SPF |
| Focal length | 3.5~91mm |
| Focus mode | Auto/manual |

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) |

Technical Specifications

HSD622

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 |
| 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) |

Audio

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

Contact closures

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

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 |

Memory

| | |
|-----------------|---------------------------|
| Internal memory | 256 MB (140 MB available) |
|-----------------|---------------------------|

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 |

Technical Specifications

HSD622

Powering

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|-------------------|---|
| Power consumption | 73W |
| Power | 19.2 - 28.4VAC (24 Vac nominal +/- 20%) |

Environmental

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|-----------------------------------|---|
| Operating temperature | Continuous -45 °C to +50 °C (-49 °F to +122 °F), 60°C maximum |
| Ingress protection | IP66 |
| MTBF (mean time between failures) | 100,000 hours at 60°C |

Mechanical

| | |
|---------------|--------------------------------|
| Dimensions | Ø190 x 302.5mm (Ø7.5 x 11.9in) |
| Weight | 2.6kg (5.7lbs) |
| Housing | Aluminium |
| Colour | RAL 9003 (signal white) |
| Sunshield | ABS/polycarbonate blend |
| Bubble | Optically clear polycarbonate |
| Impact rating | IK10 |

Ordering information

| Models | Description |
|--------------------|---|
| HSD622/N | IP High-speed PTZ dome camera, IP66, including sunshield (NTSC) |
| HSD622/P | IP High-speed PTZ dome camera, IP66, including sunshield (PAL) |
| PA03 /EU | Power supply, 230 VAC to 24 VAC, tinned leads, 3.0A, outdoor (IP66) |
| PA03 /US | Power supply, 110 VAC to 24 VAC, tinned leads, 3.0A, outdoor (IP66) |
| WM01A/HD | Mini wall mount for HD/HSD series |
| WM02S | Tube adapter for outdoor MD/MSD/HD/HSD series PTZ cameras |
| 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 |

*WM02S is included with each outdoor MD/MSD/HD/HSD camera.



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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