

## Features

- Quad stream support Dual H.264, MPEG-2, MPEG-4 and MJPEG
- 12x optical zoom/12x digital zoom
- Day/Night, Backlight Compensation, Wide Dynamic Range
- 300° / second Preset targeting
- 360° endless panning
- 256 presets/8 programmable cruises
- 8 alarm in/1 output
- Two-way audio
- 8 Privacy Masks
- Analog output
- Optical output option



## Description

The Siquira® MSD620 is an indoor PTZ dome camera with exceptional imaging controls to provide excellent pictures even in the most difficult circumstances.

### Multi-stream / Multi-codec

The versatile MSD620 can simultaneously stream H.264, dual MPEG-4, 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 MSD620 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 MSD620 also supports the unique Siquira® MX™ protocol.

### Mini Dome

This PTZ dome has a 12x autofocus zoom lens with 12x digital zoom. The lens can move in almost any direction offering a wide view without missing any details. Precise 300° per second pan and tilt drive technology offers almost instant preset positioning.

### Day/Night, Backlight Compensation, and Wide Dynamic Range

The MSD620 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 best 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 MSD620 provides all the interfaces necessary for any IP CCTV application. The balanced audio inputs/outputs are suitable for all industrial audio systems. With its analog output, the MSD620 is a hybrid solution and can provide local video for a public view monitor or local DVR.

### Fiber Interface Accessory

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

## Ordering Information

Model	Description
Siquira MSD620 /N	Mini network indoor PTZ dome, day/night, vandal-resistant
Siquira MSD620 /P	Mini network indoor PTZ dome, day/night, vandal-resistant

# MSD620

# IP mini PTZ dome with day/night, WDR (indoor)

## Technical specifications

### Camera

Image sensor	1/4" Exview CCD	
Video output (maximum resolution)	2x H.264 and/or MJPEG/1x MPEG-4	
Optical zoom	12x	
Digital zoom	12x	
Resolution	NTSC	PAL
Effective pixels	380k	440k
Horizontal resolution	540 TVL	540 TVL
Electronic shutter	1/1~1/10 sec.	1/1~1/10 sec.
D1	720x480	720x576
½D1	352x480	352x576
2CIF	720x240	720x288
CIF	352x240	352x288
QCIF	176x120	176x144
Synchronization	Internal	
Video output	1.0 Vpp/75Ω, BNC (gold-plated center pin)	
Minimum illumination	1 lux, 0.1 lux (B/W)	
Focal length	3.8~45.6 mm	
Focus mode	Auto/manual	
White balance	Auto/manual/indoor	
Iris control	Auto/manual	
AGC control	Auto/manual	
Backlight compensation	On/Off	

### Functions

Motion detection	Yes (user-defined masking)
Wide dynamic range	On/Off
Day/Night (IR-cut filter)	On/Off
Privacy masks	8
PTZ coordinate data	Via API or Pelco-D (set/get)

### Contact Closures

Number of channels	8x in, 1x out
Number of streams	2x 3 (multicast and/or unicast)
Reactions	Preset, Sequence, Auto pan, Cruise

### Network

Interface options	RJ-45 (factory Installed) or SFP Cage (accessory Included); SFP modules not included
Protocol	H.264 BP, MPEG-4 ES, MPEG-2, (M)JPEG, RTP, RTCP, RTSP, TCP, UDP, IP, DHCP, IGMPv2, (S)NTP, MX/IP, HTTP, SNMPv2, FTP, TelNet, DiffServ, SAP, UPnP, 802.1x
Management and control	SNMP v2, MX™, HTTP API v1.30, HTML (password protected)
Compression algorithm	H.264 BP (ISO/IEC 14496-10), MPEG-4, MJPEG

### Mechanical

Dimension (h x w x d)	Ø133 x 173 mm (Ø5.2 x 6.8 in.)
Weight	1.2 kg (2.7 lbs.)
Color	RAL-9003 (signal white)

### Material

Housing	Aluminum
Bubble	Optically clear polycarbonate

### Video

Compression algorithm	H.264 BP (ISO/IEC 14496-10), MJPEG, MPEG-4 SP layer 5, (ISO/IEC 14496-2), MPEG-2 (ISO/IEC 13818-2), UDP/IP (multicast and/or unicast)
Type of streaming	Up to 20
Number of output streams	Up to 20
Encoding latency	<130 ms
GOP structure	I, IP selectable
Output data rate	Up to 20 Mb/s (CBR or VBR selectable/ user profiles)
Video settings	User profiles, contrast, brightness, color saturation, hue, sharpness.
On screen display	3x text lines, (configurable: position, color, border/outline color, font size), 1x image in BMP, GIF, or JPEG format (configurable: position, scaling.)
Live view encoder	HTTP, FTP pull

### Audio

Two-way audio	Line out, Line in/microphone in (jack Ø3.5 mm)
Number of channels	1 (Mono, full-duplex)
Number of streams	3 (multicast and/or unicast)
Maximum bandwidth	20 Hz to 20 kHz
Sampling resolution	8/16-bits linear PCM or G.711
Input level	Adjustable, microphone or line
Output level	Adjustable, 3 Vrms maximum
Input impedance	>20 kΩ (600Ω balanced)
Output impedance	<100Ω (balanced)

### Pan/Tilt

Pan travel	360° continuous
Tilt travel	-10° ~ 190°
Preset speed	5 ~ 300°/s
Manual speed	0.5° ~ 55°/s
Presets	256 presets
Preset accuracy	0.225°
Cruise	1
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

### Environmental

Operating Temperature	0° C to +40° C (+32° F to +104° F)
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### Powering

Power consumption	21W
Power	19.2- 28.8 VAC, 24 VAC nominal



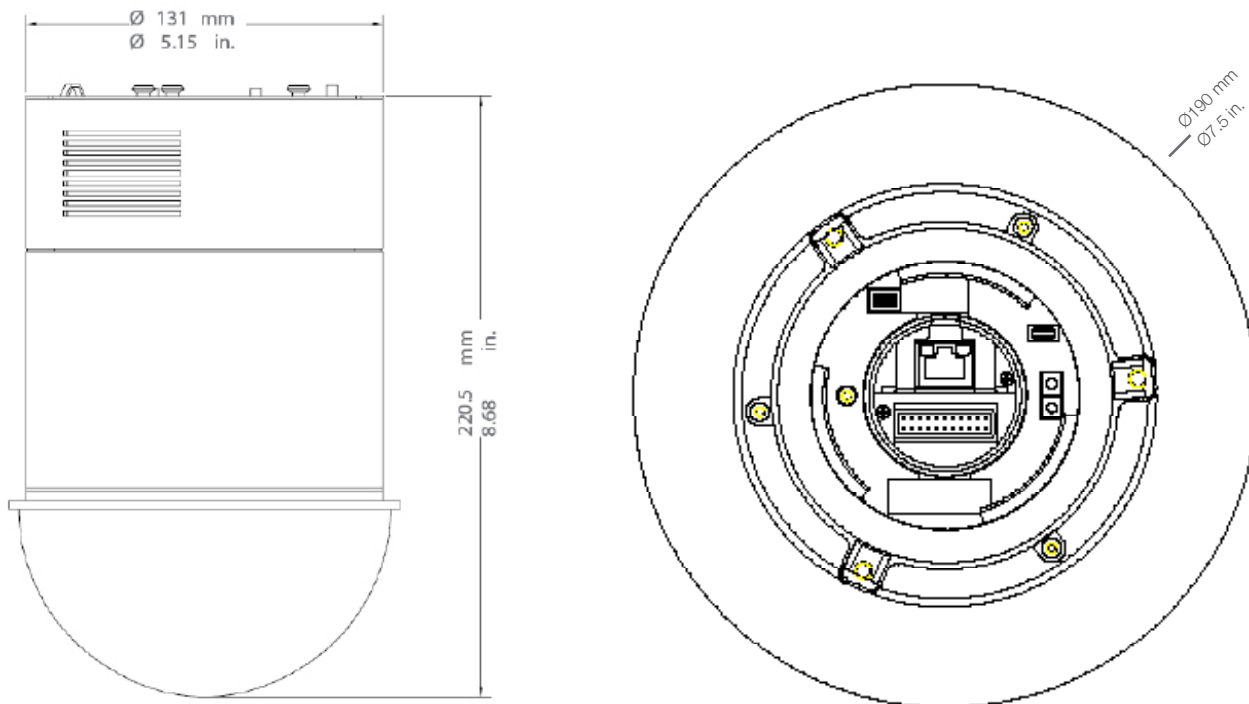
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MSD620  
Technical Drawing

IP mini PTZ dome with day/night, WDR (indoor)



Ordering Information Accessories

Model	Description
PA01 /EU	Power Supply, 230 VAC, EU plug to 24VAC, Tinned Leads, 1.5A, Indoor
PA01 /US	Power Supply, 110 VAC, US plug to 24VAC, Tinned Leads, 1.5A, Indoor
PA01 /UK	Power Supply, 230 VAC, UK plug to 24VAC, Tinned Leads, 1.5A, Indoor
PA02 /EU	Power Supply, 230 VAC, EU plug to 24VAC, Tinned Leads, 3.0A, Indoor
PA02 /US	Power Supply, 110 VAC, US plug to 24VAC, Tinned Leads, 3.0A, Indoor
PA02 /UK	Power Supply, 230 VAC, UK plug to 24VAC, Tinned Leads, 3.0A, Indoor
CM01	Straight tube 25 cm
CM02	Straight tube 50 cm
CM03 /HD*	Hard ceiling Mount for Indoor MD/MSD/HD/HSD units
CM04A /MD	Flush mount indoor MD10A/60/MSD620 series
WM01A	Mini wall mount for MD/MSD-series
WM02/HD	Tube adapter for indoor MD10x/60/MSD620 and HD-series, compatible with CM01/02, WM01A, WM03A, PTM01
WM03A	Gooseneck tube
PTM01	1-1/2" pipe thread adapter

\* CM03/HD included with each indoor unit



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