

Surveyor HD PTZ Network Dome Series



- HDTV picture quality (720p @ 30 fps) with 18X optical zoom
- Day/night operation; 0.02 lux at 50 IRE (1/4s)
- H.264, MPEG-4 and JPEG compression
- Open-platform ONVIF interface
- Wide range of housing and mounting options
- Designed for easy installation and servicing in extreme environments
- 360° continuous pan
- 80 privacy masking
- Advanced video analytics applications
- Built-in surge protection for improved product reliability

Camera Performance

The Surveyor™ HD combines a powerful day/night megapixel camera equipped with 18x optical zoom in Vicon's proven high-performance Surveyor dome system, delivering the ability to pan, tilt and zoom into an HD image with 4x the resolution of standard definition cameras. Support of H.264, MPEG-4 or JPEG encoding provides a choice for obtaining excellent quality video to fit any situation. The dome supports ONVIF open architecture connectivity to enable integration into third party software recording solutions.

The Surveyor HD 4.7-84.6 mm varifocal lens (optical 18X and 12x digital zoom) provides superb sharpness and excellent sensitivity. The camera sensor is a progressive scan CCD device with resolution of 1280 x 720 lines. Digital noise reduction is provided to minimize video interference and triggering of false alarms and Wide Dynamic Range provides the best contrast for high quality images.

The camera dome provides a full 360° pan/tilt rotation and delivers exceptional zoom, focus, pan and tilt speeds, and preset accuracy, as well as a wide range of programmable features, including privacy masking.

Operation in Extreme Environments

The Surveyor HD is available in a variety of configurations to fit almost any environment. For indoor applications, an in-ceiling and pendant type is offered; for outdoor installations, a pendant configuration is available with a standard, pressurized or high-impact housing.

The lower dome is constructed of acrylic and is secured by tamperproof screws, providing anti-vandal security; the lower dome on the impact-resistant and pressurized versions are polycarbonate for additional protection. Several mounting accessories are available to fit almost any installation need. The outdoor units are provided with a blower and thermostatically-controlled heater for extended temperature range.

Security

In addition to physical security design features, such as surge protection, acrylic/polycarbonate lower dome, and tamperproof screws, there are a number of software-based security enhancements such as multilevel user rights and self-reporting to the video management system.

Network Video Transmission

Compression:	H.264, MPEG-4, JPEG. ONVIF compliant.
Video Streams:	10 concurrent sessions maximum.
Video Resolution:	1280 x 720.
Frame Rate:	30 fps.
Audio:	Audio input support.
Protocols:	IP, HTTP, RTSP/RTP, DNS client, FTP, SMTP, PPPoE, TCP/IP, DHCP, UDP, Multicast, NTP, DDNS, IGMP, ARP, SOAP, WSDL, WS-Discovery.

Electrical

Input Voltage:	18-30 VAC; PoE+ on indoor only.
Current:	Indoor: 0.8 A maximum. Outdoor: 1.6 A maximum.
Power Consumption:	Indoor: 15 W maximum. Outdoor: 34.2 W maximum.
Fuse:	Resettable 1.35 A, 72 V.
Certifications:	CE; FCC Class A. ONVIF compliant. International Protection (IP) Ratings: Outdoor/Impact-Resistant: IP66. Pressurized: IP67 Indoor Pendant: IP62. In-Ceiling: IP51.

Camera and Optics

Image Device:	1/3-inch solid state progressive scan CCD.
Zoom:	18X optical; 12X digital; 216X total.
Picture Elements:	1348 (H) x 976 (V), 1.32M total pixels.
Sensitivity:	Color: 0.18 fc (1.8 lux). B&W: 0.002 fc (0.02 lux) at 50 IRE, f/1.6, 1/4s, IR Off.
Horizontal Resolution:	800 TV lines (color and b&w).
Synchronization:	Internal.
Gain Control:	Automatic/Manual.
Backlight Compensation:	On/Off, selectable.
Iris Control:	Automatic.
Digital Noise Reduction:	On/Off, selectable.
Wide Dynamic Range:	On/Off, selectable.
Image Stabilization:	On/Off, selectable.
Video Focus:	Automatic/Manual (near-far).
White Balance:	Automatic/Manual; Red/Blue gain adjustable.
Shutter Speed:	Automatic/Manual: 1/4 - 10,000 sec.
Focal Length:	4.7 - 84.6 mm
Aperture:	f/1.6 (wide) - f/2.8 (tele).
Angle of View:	Horizontal: 55.2° wide, 3.2° tele.

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Specifications subject to change without notice.

Operational

Drive Type:	Electrical motorized pan and tilt with electronic control.
Pan View:	360° continuous.
Tilt View:	-2.5 to 92.5°.
Pan Speed:	400°/sec, max.
Tilt Speed:	150°/sec, max.
Optical Zoom/Focus Speed:	1.8 sec, tele to wide.
Preset Capability:	79 individually programmable.
Preset Solving Speed:	1 second nominal.
Preset Accuracy (Pan and Tilt):	0.1° maximum.
Tour Capabilities:	8 tours available. 32 programmable events per tour. Events may be preset positions with speed control, alarm acknowledge, dwell time control, relay control, call autotours, tour repeat or another tour, save/recall camera status.
Autotour Capabilities:	2 autotours available with 256 pan, tilt and zoom functions per autotour. Programming is done in real time with joystick and push buttons.
Sectoring:	16 maximum, programmable for size and titling. Sectors have the capability to be blanked out.
Alarm Capabilities:	4 alarm inputs, individually programmable. Functional state enable/disable. Report state (report on/off). Active state (high/low). Mode (manual, momentary or automatic) with programmable dwell time control. Set and reset action (preset solve, relay on/off, tour, autotour). Alarm titling.
Alarm Output:	1 relay, momentary or latching.
Control Display:	Web browser.
Privacy Masks:	16 individual simultaneously on-screen; 80 total. Programmable, zoom-scalable.
Scheduling:	Real-time clock allows scheduling of up to 64 events, including presets, relays, alarms, tours or autotours.
Multi-Language Menu:	English, Spanish, French, Italian and German.
Camera Features:	Motion detection, image freeze during preset solve, image flip (vertical invert), image mirror, reverse video image. Programmable.
Screen Titling Capabilities:	Programmable for camera, preset, sector, relay and alarms. Pressurized version only: aux, pressure, humidity, temperature. Individual type date and time enable/disable; 20 characters maximum. Selectable position. Two text sizes for top 2 lines. Fade capability. Compass/azimuth, 8 compass headings (N, NE, E, SE, S, SW, W, NW).

Environmental

Operating Temperature Range:

Indoor units: 32 to 131° F (0 to 55° C).
Outdoor units: -40 to 131° F (-40 to 55° C), continuous rotation.

Operating Humidity Range:

Indoor: 0 to 90% relative, non-condensing.
Outdoor: 100% relative, non-condensing.

Storage Temperature Range:

-40 to 150° F (-40 to 65° C).

Storage Humidity Range:

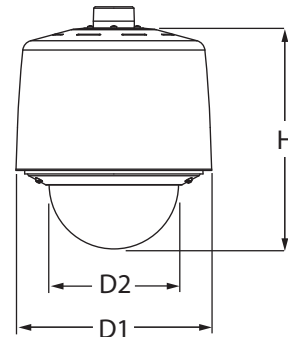
0 to 90% relative, non-condensing.

Rain/Wind:

Outdoor: Heavy rain up to 4 in./hr at winds up to 90 mph, when mounted on standard Vicon wall mount.

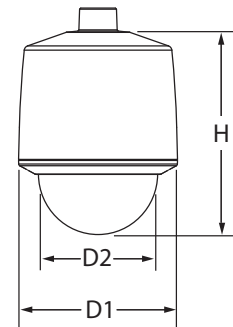
Outdoor/High-Impact Pendant

- Die-cast aluminum enclosure, molded plastic sunshield
- Vandal-proof clear acrylic/polycarbonate dome
- Standard 1-1/2 inch male NPT fitting or metric equivalent
- Unit Diameter (D1): 9.0 inches (228 mm)
- Lower Dome Diameter (D2): 5.9 inches (150 mm)
- Height (H): 10.3 inches (262 mm)
- Weight: 7.7 lb. (3.5 kg)



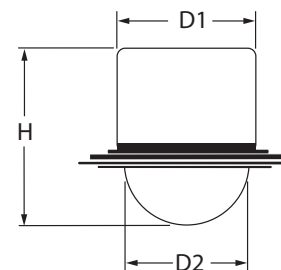
Indoor Pendant

- Molded plastic enclosure
- Vandal-proof smoked acrylic dome
- Standard 1-1/2 inch male NPT fitting or metric equivalent
- Diameter (D1): 8.0 inches (203 mm)
- Lower Dome Diameter (D2): 5.9 inches (150 mm)
- Height: 10.0 inches (254 mm)
- Weight: 4.7 lb. (2.1 kg)



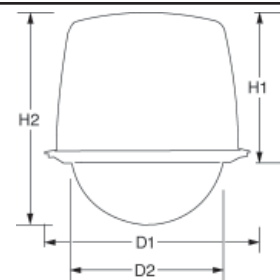
Indoor In-Ceiling

- Black anodized aluminum
- Vandal-proof smoked acrylic dome
- Diameter (D1): 7.1 inches (180 mm)
- Lower Dome Diameter (D2): 5.9 inches (150 mm)
- Height: 9.7 inches (246 mm)
- Weight: 5.1 lb. (2.3 kg)



Pressurized

- Die-cast aluminum enclosure; molded plastic sunshield
- Vandal-proof clear polycarbonate dome
- Standard 1-1/2 inch male NPT fitting or metric equivalent
- Unit Diameter (D1): 9.5 inches (241 mm)
- Lower Dome Diameter (D2): 6.0 inches (152 mm)
- Height (H2): 10.2 inches (259 mm); (H1): 7.3 in. (185 mm)
- Weight: 12.0 lb. (5.4 kg)



Surveyor HD Models






Resolution	Optics	Indoor Environment		Outdoor Environment		
		In-Ceiling	Pendant Mount	Outdoor Dome	High-Impact Dome	Pressurized Dome
1.3	18X	SN118C	SN118D	SN118W	SN118M	SN118P

Accessories

Power Supplies

Description	Model Number
24 VAC output, 120 VAC input, single-channel	S24WPS-1
24 VAC output, 230 VAC input, single-channel	S24PS-230
28 VAC output, 120 VAC input, single-channel	S28PS-1
24/28 VAC output 120/230 VAC input, single-channel	S28WPS-1/ S28WPS-230
24/28 VAC output 120 VAC input, four-channel	V2448-175PS
24 VAC output 120 VAC input, eight-channel	V248-600PS
24/28 VAC output 120 VAC input, eight-channel	V248-300PS
28 VAC output 120 VAC input, sixteen-channel	V2416-600PS

Mounts

	Description	Model Number
	Indoor or outdoor wall mount	SVFT-UWM
	Indoor or outdoor ceiling mount	SVFT-UCM
	Indoor or outdoor short wall mount	SVFT-WM
	Outdoor parapet mount	SVFT-UPM-1
	Outdoor roofmount	SVFT-URM-1