

S10-CH Mini Camera Dome

- 10X optical zoom and 10X digital zoom combine for 100X zoom capability
- Indoor applications; aluminum housing and polycarbonate lower dome (IP66)
- Intelligent pan/tilt function keeps pan and tilt speeds in proportion to zoom
- Quick operation keys for ease of use
- Up to 79 programmable presets
- Up to 8 programmable tours
- Up to 8 user-defined patterns (autotours)
- Up to 4 programmable privacy masking zones
- 4 alarm inputs activate with presets, tours or patterns
- Titling functions
- · Password protection
- 360° continuous rotation pan-and-tilt drive
- 200°/sec pan preset speed; 150°/sec tilt preset speed
- Compensation function provides absolute preset position
- Digital Slow Shutter feature for enhanced low-light applications
- Integral 3.8-38 mm autoiris varifocal lens

The S10-CH is a compact, lightweight intelligent security device comprised of a color camera and lens with DSS (Digital Slow Shutter), pan/tilt drive, receiver and CPU-based electronics all in an attractive enclosure. The S10-CH can be programmed and operated using any V1300X/V1400X/1500 series NOVA communication or Kollector™ devices. The S10-CH can be used for indoor installations. Its compact size makes it suitable for almost any application, including shopping malls or airports. Additionally, tamper-resistant screws make the unit resistant to vandalism.

The S10-CH provides video transmission over coaxial cable. The camera has an integral 3.8-38 mm autoiris varifocal lens. The camera provides 10X optical zoom combined with 10X digital zoom capability, for a total of 100X zoom functionality. The dome also provides 360° continuous rotation. In preset mode, the unit has a pan speed of 200°/sec and a tilt speed of 150°/sec with ±0.2° system accuracy. The unit offers 0.2°/sec - 150°/sec pan and tilt manual speed adjustable in 10°/sec increments. Pan and tilt speeds adjust in proportion to the zoom function.

The dome offers up to 79 programmable preset positions. Up to 8 user-defined patterns (autotours) can be programmed; up to 8 tours can be created, each tour consisting of up to 60 preset steps with individual speed and dwell times. Up to 8 sectors can be user-defined and programmed as well as 4 privacy mask zones. Four alarm inputs are available to activate with presets, tours or patterns. Password protection is available through the Vicon system. The unit functions in simplex mode. The S10-CH provides Quick Operation Keys (macros) for ease of operation for certain functions.

The S10-CH is designed to be surface-mounted. A pendant mount adapter is available so the dome can be mounted in a pendant configuration with an appropriate mount. The unit is compatible with Vicon's line of SurveyorVFT™ mounting options for wall, ceiling or pendant configurations. An option to mount the unit in a dropped ceiling is also available. Refer to Table 1 for a complete listing.

The S10-CH meets requirements for an FCC Class A computing device.

Product Specification

Table 1: Models, Product Codes and Descriptions

Model Number	Product Code	Description	
S10-CH	9151-00	Camera dome with 10X optical zoom and 10X digital zoom, indoor	
		applications, color camera , NTSC	
S10-CH-C	9151-01	Camera dome with 10X optical zoom and 10X digital zoom, indoor	
		applications, color camera , PAL	
S-10CM	9151-20	Dropped-ceiling mount; used to mount the S10-CH into a dropped	
		ceiling	
S-10PA	9151-10	Pendant mount adapter for use with an appropriate mount	
SVFT-UWM	8352-00	Wall mount, used to mount the S10-CH to a wall	
SVFT-WM	8350-00	Wall mount (short), used to mount the S10-CH to a wall	
SVFT-UCM	8351-00	Ceiling mount, used to mount the S10-CH to a ceiling	
SVFT-UPM-1	8348-10	Parapet mount, used to mount the S10-CH to the inside surface of a	
		roof parapet or similar structure	
SVFT-URM-1	8349-10	Roof mount, used to mount the S10-CH to a roof	
V24CMB	1971-00	Corner mounting bracket; for use with wall mount for corner installation	
V20B-A	3691-11	Pole mount adapter; used to mount S10-CH to a 4-10 in. diameter pole	

Table 2: Compatible Power Supplies

Model Number	Product Code	Description
S24WPS-1	7028-10	Single-channel, 120 VAC input, 24 VAC output, 2 amps. for S10-CH Camera Domes
S24PS/S24PS- 230	7027-00/7027-01	Single-channel, 120/ 230 VAC input, 24 VAC output, 2.5 amps. for S10-CH Camera Domes
S28PS-1	7029-10	Single-channel, 120 VAC input, 28 VAC output, 2.15 amps, for S10-CH Camera Domes
S28WPS-1/ S28WPS-230	7030-10/7030-01	Single-channel, 120/230 VAC input, 28 VAC output, 3 amps, for S10-CH Camera Domes
V2448-175PS	6410-20	Four channel, 120 VAC input, 24/28 VAC output (jumper selectable), 7/6.25amps (total), for S10-CH Camera Domes
V248-600PS	8438	Eight channel, 120 VAC input, 24 VAC output, 25 amps (total), for S10-CH Camera Domes
V248-300PS	6422-10	Eight channel, 120 VAC input, 24/28 VAC output (jumper selectable), 12.5/10 amps (total), for S10-CH Camera Domes
V2416-600PS	8437	Sixteen channel, 120 VAC input, 28 VAC output, 26 amps (total), for S10-CH Camera Domes

Caution: Note that on multi-channel units, the amperage stated is the total for all channels. To assure sufficient current to individual cameras, connect only the number of cameras that use less than the maximum supply current.

Technical Information

ELECTRICAL

Motor Type: Stepper motor, various micro

steps.

Input Voltage: 18-30 VAC. (Will operate within

spec on voltages up to 32 VAC. For voltages between 30 - 32 VAC, use a Class 3 indoor/dry or

outdoor/wet power supply.)

Maximum Current: 650 mA. **Power Consumption:** 16 W.

Heat Equivalent: 0.9 btu/min

(0.23 kg-cal/min).

Note: These figures represent the conversion of 100% of the electrical energy to heat. Actual percentage of heat generated will be less and will vary from product to product. These figures are provided as an aid in determining the extent of cooling required for an installation.

Connector Types: Video Out: screw terminal block.

Power: screw terminal block. RS-485/422: screw terminal

Alarms: screw terminal block.

Polyswitch: 1.1 A.

Video Output

Impedance: Composite video, 75 ohm

terminated.

Radio

Emission Rating: FCC Class A/CE.

OPERATIONAL

Video Pan View: 360° continuous rotation.

Video Tilt View: -2° - 90°

Pan Speed: Preset: 200°/sec max.

Manual: 0.2-150°/sec, adjustable

in 10° increments.

Tilt Speed: Preset: 150°/sec max.

Manual: 0.2-150°/sec, adjustable

in 10° increments.

Autoscan Speed: Variable, 0.05 to 35°/sec;

> continuous rotation is on/off selectable. Movement is programmable clockwise or

counterclockwise

Zoom Speed: Fast or slow, selectable.

Sectoring: 8 selectable, titling capabilities

up to 16 characters.

Preset Capabilities: 79 individual programmable

preset positions with titling capability up to 16 characters.

Preset Solving

Speed: Less than 2 sec nominal.

System Accuracy

(Pan & Tilt): ±0.2°.

Pan/Tilt Control: Pan and tilt speed adjust in

proportion to zoom.

8 programmable tours, 60 **Tour Capabilities:**

programmable steps per tour, with titling capability up to 16 characters. Steps may be preset positions with individual speeds

and dwell times.

Autotour(Pattern)

Capabilities:

8 autotours available with titling

capability up to 16 characters.

4 alarm inputs, individually **Alarm Capabilities:**

programmable, NO/NC. Functional state enable/disable. Set action (preset solve, tour,

pattern/autotour).

Control Display: On-screen, menu-driven system

allowing full configuration of the

dome.

4 individual, programmable for Privacy Masks:

size and location.

Auto Flip: Programmable ON/OFF.

Password Protection: Available through Vicon system.

Screen Titling

Capabilities:

Programmable for camera, preset, sector, tour, pattern and privacy mask. 16 characters.

Multilanguage Menu: English, French, Italian and

Polish.

Baud Rate: DIP switch selectable;

2400/4800 or 9600 bps baud

rates supported.

Competitive Protocols: DIP switch selectable.

Control Protocol

Hardware: Vicon: Vicon's NOVA V1422

Matrix Switcher, V1300, V1344, V1466, V1400 and 1500 series NOVA CPUs, V1400X-DVC System Console and V1300X-DVC desk-top keypad or V1300X-RVC rack-mounted

keypad.

Control Protocol

Format:

(See Note on Competitive Protocols)

CAMERA

Vicon: RS-485/422 protocol. Communication is simplex operation at 4800 baud

automatically detected upon power up. RS-485/422 protocol utilizes full tri-state outputs for daisy chain capability. Pelco/Samsung: Pelco D/P Protocol (3/2/99); RS-485 N.8.1,

simplex 2400 bps.

Camera Type: Color camera (NTSC/PAL

formats) with 10X optical zoom, 10X digital; 1/4-inch Sony Super

HAD CCD.

Camera/Lens

Specifications:

See Table 3.

Technical Information

MECHANICAL

Application: Indoor.

Mounting: Surface mounted. In-ceiling or

pendant mounting options. See Table 1 for compatible

Vicon mounts.

Pendant Mount

Size/Thread: Standard 3/4 inch male NPT

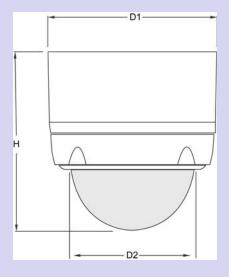
pipe thread or metric equivalent.

Dimensions: Diameter (D1): 6.6 in. (167 mm).

Height (H): 6.2 in. (157 mm).

Lower Dome

Diameter (D2): 3.9 in. (100 mm).



Weight: 3.3 lb (1.5 kg).

Construction: Die-cast aluminum;

polycarbonate anti-vandal dome;

tamper-resistant screws.

Color: Off-white housing; clear lower

dome.

Shipping

Dimensions: Height: 8.9 in. (226 mm).

Width: 8.0 in. (203 mm). Depth: 8.0 in. (203 mm).

Shipping Weight: 3.75 lb (1.7 kg).

Shipping Volume: 0.3 ft³ (0.008 m³).

ENVIRONMENTAL

Operating

Temperature Range: 32 to 104° F (0 to 40° C).

Operating

Humidity Range: 90% relative, noncondensing.

Storage

Temperature Range: 14 to 140° F (-10 to 60° C).

Storage Humidity

Range: 0 to 90% relative, non-

condensing.

IP Rating: IP66.

Note on Competitive Protocols: All companies make changes and improvements in their products. Because this product can interface with equipment not manufactured by Vicon, there is a possibility that the interface protocols may have changed since Vicon tested this product with the interfacing equipment. Vicon recommends purchasing a single unit for bench testing prior to purchasing and installing this product in quantity.

Technical Information

Specifications	S-10X	S-10X-C
Format	NTSC	PAL
Туре	Color	Color
Optical Zoom	10X	10X
Digital Zoom	10X	10X
Total Zoom	100X	100X
Zoom Speed	Fast/Slow, programmable	Fast/Slow, programmable
Image Device	1/4-inch Sony Super HADCCD	1/4-inch Sony Super HADCCD
Picture Element (Effective)s	768(H) x 494 (V), 380,000 pixels	752(H) x 582 (V), 440,000 pixels
Scanning System	2:1 interlace, 525 lines 60 fields/sec	2:1 interlace, 625 lines 50 fields/sec
Sensitivity at 50 IRE, f/1.8)	0.07 fc (0.7 lux)	0.07 fc (0.7 lux)
Horizontal Resolution	500 TV lines	500 TV lines
S/N Ratio	More than 50 dB	More than 50 dB
Synchronization	Internal	Internal
Backlight Compensation	ON/OFF	ON/OFF
Iris Control	Automatic/Manual	Automatic/Manual
White Balance	AWB/ATW	AWB/ATW
Video Focus	Automatic/Manual	Automatic/Manual
Minimum Shooting Distance	1.1 ft (wide)/2.6 ft (tele) (0.35 m/0.8 m)	1.1 ft (wide)/2.6 ft (tele) (0.35 m/0.8 m)
White Balance	AWB/ATWr	AWB/ATW
Digital Slow Shutter (DSS)	ON/OFF	ON/OFF
Flickerless	ON/OFF (1/100)	ON/OFF (1/120)
Mirror	ON/OFF	ON/OFF
Flip	ON/OFF	ON/OFF
Focal Length	3.8 - 38 mm	3.8 - 38 mm
Aperture/Gain Control	01-15	01-15
Horizontal Angle of View	51.2° wide, 5.58° tele	51.2° wide, 5.58° tele

Table3: Camera/Lens Specifications

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