

High Speed in-Ceiling and Outdoor PTZ Dome Cameras with multi-protocol capabilities



DESCRIPTION

Infinova's V1740 series represents a state-of-the-art line of outdoor, in-Ceiling and Bracket mount Pan, Tilt, Zoom Dome cameras. This leading PTZ dome system is an ideal product for the changing environment that is today's security industry.

Infinova's standard PTZ domes are available as 18X12, 22X12, 23X12, 26X12 and 35X12 optical/ digital zoom, ensuring their ability to find the right camera for their project. Digital Signal Processing technology provides enhanced clarity, color and detail, with the day/night camera; usable images can be delivered even in extremely low light conditions. Separate definable privacy zones can be set by administrators to prevent users from viewing restricted areas. The PTZ dome's direction indicators; which can be displayed on the monitor, denote the direction in which it is moving.

The internal multi-protocol receiver allows these domes to be compatible with control site equipment from Infinova, such as the V2109 and V2117 keyboards, and Infinova matrix switchers; as well as equipment from 3rd party manufacturers. Infinova Domes feature built-in memory to store camera and dome settings, including labels, presets, patterns, and zones. These settings are automatically downloaded if a new dome drive is installed.

Password protection prevents unauthorized users from changing the system setup, as well as other sensitive PTZ dome settings. The PTZ dome's "Home Position" feature allows users to establish a default view or pattern for the PTZ dome when it is not being controlled. The digital slow shutter (D.S.S.) allows a long exposure time of 1/2 second, providing a higher sensitivity and minimum illumination of only 0.03 lux (color, 1/2 s). Color data is captured and stored by the PTZ dome, allowing a user to see things that are typically not visible when using a standard color video camera.

Infinova's variable speed capabilities range from a smooth, fast pan motion of 240° (200° for 35X) per second to a low speed of 0.5° per second. The system is capable of 360° rotation and has an "auto flip" feature that allows the camera to rotate 180° and reposition itself for uninterrupted viewing of any subject that passes directly beneath the PTZ dome.

FEATURES

- Advanced 1/4" DSP CCD camera
- More than 480 lines of resolution
- 18X12, 22X12, 23X12, 26X12 and 35X12 zoom available
- Image Stabilization on 35X model
- Up to 128 presets with 16 characters each
- Auto Iris (AI), Auto Focus (AF), Back Light Compensation (BLC)
- Wide dynamic range on the 35X model
- Proportional high-speed pan/tilt and automatic flip
- Housing features built-in non-volatile memory for automatic download to new camera
- Password protection
- 16 privacy masking zones
- 16 video blanking sectors
- 4 programmable patterns
- Automatic home position
- Internal multi-protocol receiver/driver
- PTZ Data including Manchester, RS-422 and RS-485
- 4 alarm inputs with programmable output
- Built-in surge and lightning protection
- Anti-ice / Anti-mist, built-in heater and air circulating system available
- Easy to install with quick and simple electrical connections
- Exceeds IP66 and NEMA 4X Specifications
- Vandal-resistant option available (polycarbonate)

SPECIFICATIONS

General

Optical zoom: 18X, 22X, 23X, 26X, 35X
 Digital zoom: 12X (all versions)
 Image Stabilization: 35X zoom
 Weight: 8.44 lbs. (3.82 kg)

Programmable Presets

Manchester: 64
 RS-422/485: Up to 128
 Programmable Patterns: 4
 Programmable Areas: 16
 Programmable Privacy Masking Zones: 16
 Video Blanking Sectors: 16
 Image Mirror Function: Yes

Auto Synchronization

Line-Locked: Remote V-phase adjustment
 Internal: Built-in sync generator
 Alarm Inputs: 4 Photo-couple contacts/ 7mA @12 VDC
 Alarm Outputs: 1 Open-collector drivers @12 VDC, 50 mA

Mechanical

Manual Pan/Tilt Speed: 0.5° ~ 90° per second
 (0.5° ~ 180° per second for 35X)
 (based on zoom position)
 Preset Pan/Tilt Speed: 240° per second, maximum
 (200° per second, maximum for 35X)
 Pan Travel: 360° continuous
 Tilt Travel: -3° ~ 90°
 Pan/Tilt Accuracy: ±1° (±0.3° for 35X)
 Zoom/Focus Accuracy: ±0.5%
 Motor: Stepping Motor

Electrical

Input Voltage: 12 VDC, 24 VAC
 Power Consumption: 12 VDC: 25 watts
 24 VAC: 50 watts
 Power On In-Rush Current: 12 VDC, 4 amps (maximum)
 24 VAC, 2 amps (maximum)

Environment

Operating Temperature: -40°F ~ 122°F (-40°C ~ 50°C)
 Fan & Heater: Continuous fan; auto-start heater
 Humidity: 0-90% RH (Non-condensing)

Compliance

FCC, CE

ORDERING INFORMATION

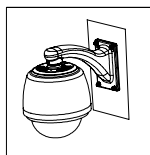
Please consult the part number guide on page 3 for complete part numbering information.

PTZ Dome Installation Mounts

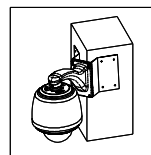
For use with V1740 series outdoor PTZ domes

V1761 Wall Mount, 10" horizontal, 1.5" NPT
 V1761L Wall Mount, 17" horizontal, 1.5" NPT
 V1762 Corner Mount, 10" horizontal, 1.5" NPT
 V1763 Pole Mount, 10" horizontal, 1.5" NPT
 V1764A Pendant Mount, 15" long vertical, 1.5" NPT, outdoor
 V1764B Pendant Mount, 15" long vertical, 1.5" NPT, outdoor
 V1765 Parapet Mount, 12" horizontal, vertical attachment, 1.5" NPT
 V1765A Parapet Mount, V1765 horizontal attachment adapter

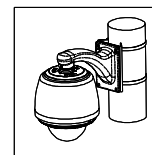
MOUNTING



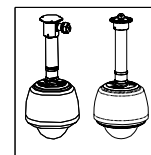
Wall Mounting



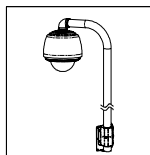
Corner Mounting



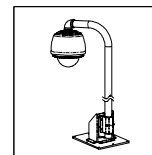
Pole Mounting



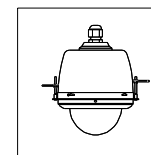
Pendant Mounting



Over-roof Side Wall Mounting



Over-roof horizontal Surface Mounting



Ceiling Mounting

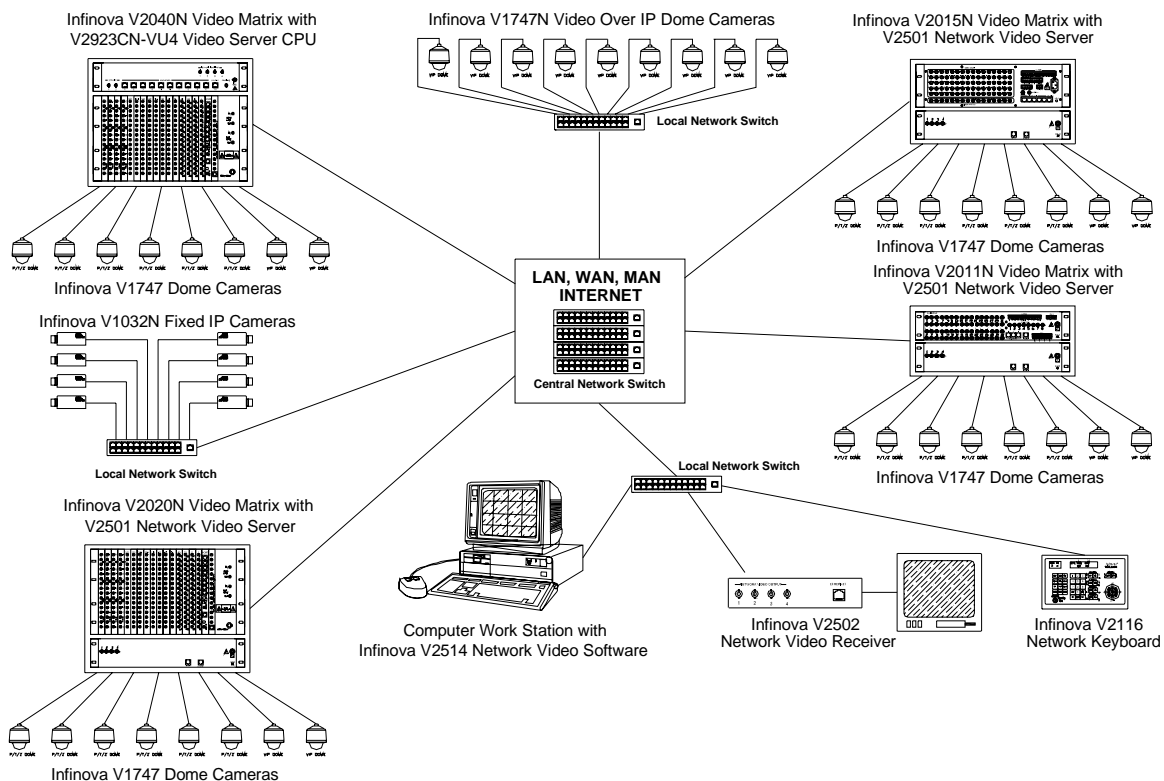
PTZ DOME CAMERA PART NUMBERING SYSTEM:

TYPE	BUBBLE	18X Color	22X Color	23X Color/BW	26X Color/BW	35X Color/BW
Outdoor Recessed Ceiling Mount NTSC Camera	Recessed Clear	V1745A-COC2C	V1746A-COC2C	V1747A-COC2C	V1748A-COC2C	V1749A-COC2C
	Recessed Smoked	V1745A-COS2C	V1746A-COS2C	V1747A-COS2C	V1748A-COS2C	V1749A-COS2C
	Vandal-Resistant Clear	V1745A-COC3C	V1746A-COC3C	V1747A-COC3C	V1748A-COC3C	V1749A-COC3C
	Vandal-Resistant Smoked	V1745A-COS3C	V1746A-COS3C	V1747A-COS3C	V1748A-COS3C	V1749A-COS3C
Outdoor Recessed Ceiling Mount PAL Camera	Recessed Clear	V1745A-C1C2C	V1746A-C1C2C	V1747A-C1C2C	V1748A-C1C2C	V1749A-C1C2C
	Recessed Smoked	V1745A-C1S2C	V1746A-C1S2C	V1747A-C1S2C	V1748A-C1S2C	V1749A-C1S2C
	Vandal-Resistant Clear	V1745A-C1C3C	V1746A-C1C3C	V1747A-C1C3C	V1748A-C1C3C	V1749A-C1C3C
	Vandal-Resistant Smoked	V1745A-C1S3C	V1746A-C1S3C	V1747A-C1S3C	V1748A-C1S3C	V1749A-C1S3C
Outdoor Pendant Mount NTSC Camera	Pendant Clear	V1745A-COC2B	V1746A-COC2B	V1747A-COC2B	V1748A-COC2B	V1749A-COC2B
	Pendant Smoked	V1745A-COS2B	V1746A-COS2B	V1747A-COS2B	V1748A-COS2B	V1749A-COS2B
	Vandal-Resistant Clear	V1745A-COC3B	V1746A-COC3B	V1747A-COC3B	V1748A-COC3B	V1749A-COC3B
	Vandal-Resistant Smoked	V1745A-COS3B	V1746A-COS3B	V1747A-COS3B	V1748A-COS3B	V1749A-COS3B
Outdoor Pendant Mount PAL Camera	Pendant Clear	V1745A-C1C2B	V1746A-C1C2B	V1747A-C1C2B	V1748A-C1C2B	V1749A-C1C2B
	Pendant Smoked	V1745A-C1S2B	V1746A-C1S2B	V1747A-C1S2B	V1748A-C1S2B	V1749A-C1S2B
	Vandal-Resistant Clear	V1745A-C1C3B	V1746A-C1C3B	V1747A-C1C3B	V1748A-C1C3B	V1749A-C1C3B
	Vandal-Resistant Smoked	V1745A-C1S3B	V1746A-C1S3B	V1747A-C1S3B	V1748A-C1S3B	V1749A-C1S3B

PART NUMBER EXTENSIONS FOR POWER INPUT SELECTION:

12 VDC	24 VAC	EX: 12 DC Input:	EX: 24 VAC Input:
5	6	V1745A-COC2B5	V1745A-COC2B6

APPLICATION DIAGRAM HYBRID ANALOG AND VIDEO OVER IP NETWORKS - CAMERAS AND MATRIX SWITCHERS



CAMERA PARAMETERS

Dome Model	V1745A	V1746A	V1747A	V1748A	V1749A
Video Type	PAL/NTSC (Color)	PAL/NTSC (Color)	PAL/NTSC (Color, B/W)	PAL/NTSC (Color, B/W)	PAL/NTSC (Color, B/W)
Scanning System	2:1 Interlace Scanning				
Image Sensor	1/4" Interlace Scanning CCD		1/4" Progressive Scanning CCD	1/4" Interlace Scanning CCD	1/4" Progressive Scanning CCD
Resolution	PAL/440K: 752 (H) x 582 (V) NTSC/380K: 768 (H) x 494 (V)	PAL/470K: 795 (H) x 596 (V) NTSC/410K: 811 (H) x 508 (V)	PAL/450K: 758 (H) x 592 (V) NTSC/380K: 758 (H) x 504 (V)	PAL/440K: 752 (H) x 582 (V) NTSC/380K: 768 (H) x 494 (V)	PAL/440K: 752 (H) x 582 (V) NTSC/380K: 768 (H) x 494 (V)
Aperture/Focal Length	F1.4 ~ F3.0 f=4.1 ~ 73.8 mm	F1.6 ~ F3.8 f=4 ~ 88 mm	F1.6 ~ F3.7 f=3.6 ~ 82.8 mm	F1.6 ~ F3.8 f=3.5 ~ 91 mm	F1.4 ~ F4.2 f=3.4 ~ 119 mm
Angle of View	48° (Wide) / 2.8° (Tele)	47.3° (Wide) / 2.2° (Tele)	54° (Wide) / 2.5° (Tele)	54.2° (Wide) / 2.2° (Tele)	55.8° (Wide) / 1.7° (Tele)
Minimum Focal Range	0.035m (Wide) ~0.8m (Tele)	0.01m (Wide) ~1.6m (Tele)	0.01m (Wide) ~1.0m (Tele)	0.32m (Wide) ~1.5m (Tele)	0.01m (Wide) ~1.0m (Tele)
Sensitivity	1.0 lux (PAL: 1/50s, NTSC: 1/60s)	1.0 lux (PAL: 1/50s, NTSC: 1/60s)	Color Mode (IR-Cut On): 1.0 lux (PAL: 1/50s, NTSC: 1/60s) 0.1 lux (PAL: 1/1.5s, NTSC: 1/2s) B/W Mode (IR-Cut Off): 0.02 lux (1/4s, 1/3s)	Color Mode (IR-Cut On): 1.0 lux (PAL: 1/50s , NTSC: 1/60s) 0.07 lux (PAL: 1/3s, NTSC: 1/4s) B/W Mode (IR-Cut Off): 0.15 lux (PAL: 1/50s, NTSC: 1/60s) 0.01 lux (PAL: 1/3s , NTSC: 1/4s)	Color Mode (IR-Cut On): 0.5 lux (PAL: 1/50s , NTSC: 1/60s) 0.05 lux (PAL: 1/3s, NTSC: 1/4s) 0.025Lux (PAL:1/1.5s, NTSC: 1/2s) B/W Mode (IR-Cut Off): 0.01Lux: (PAL: 1/3s, NTSC: 1/4s) 0.025Lux (PAL:1/3s, NTSC: 1/4s)
Horizontal	480 TVL				540 TVL
S/N Ratio	>50dB				
Video Output	1.0 ±0.2 Vp-p				
Backlight Compensation	Off/On				
Sync System	Internal/External				
WDR	/	/	Off/On	/	MD1/MD2/OFF
Optic Zoom	18X	22X	23X	26X	35X
Digital Zoom	1~12X Adjustable				
DSS	No	Yes	Yes	Yes	Yes
Focus	Auto/Manual				
White Balance	Auto/Manual				
Shutter Speed	Auto: Default Set Manual: PAL: 1/2~1/10000s NTSC: 1/2~1/10000s	Auto: Default Set Manual: PAL: 1/1.5~1/30000s NTSC: 1/2~1/30000s	Auto: Default Set Manual: PAL: 1/1.5~1/30000s NTSC: 1/2~1/30000s	Auto: Default Set Manual: PAL: 1/2~1/10000s NTSC: 1/2~1/10000s	Auto: Default Set Manual: PAL: 1/1.5~1/30000s NTSC: 1/2~1/30000s
Iris	Auto/Manual				