

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



DESCRIPTION

Infinova's V1740A 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, 35X12 and 36X12 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 and 36X) 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

- Sony or Hitachi cameras
- Advanced 1/4" CCD camera
- >480 lines of resolution
- 18X12, 22X12, 23X12, 26X12, 35X12 and 36 X12 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 23X, 35X and 36X model
- Proportional high-speed pan/tilt and automatic flip
- Housing features built-in non-volatile memory for automatic download to new camera
- Password protection
- Up to 24 advanced spherical privacy zones
- 16 video blanking sectors
- 4 programmable patterns
- Automatic home position
- Internal multi-protocol receiver/driver
- PTZ Data including 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, 36X
Digital zoom:	12X (all versions)
Image Stabilization	35X zoom
Programmable Presets:	up to 128
Programmable Patterns:	4
Programmable Areas:	16
Spherical Privacy Zones:	Up to 24
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 and 36X) (based on zoom position)
Preset Pan/Tilt Speed:	240° per second, maximum (200° per second, maximum for 35X and 36X)
Pan Travel:	360° continuous
Tilt Travel:	-3° ~ 90°
Pan/Tilt Accuracy:	±1° (±0.3° for 35X and 36X)
Zoom/Focus Accuracy:	±0.5%
Motor:	Stepping Motor
Product Weight:	8.44 lbs. (3.82 kg)
Product Dimension:	10.83" x Φ9.45" (275mm x Φ240mm)

Electrical

Input Voltage:	12 VDC, 24 VAC
Power Consumption:	12 VDC: 22 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)

Certifications

ISO 9001:2000

FCC, CE

Protocols Supported:

INFINOVA, PELCO-P/D, Up the Coax

ORDERING INFORMATION

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

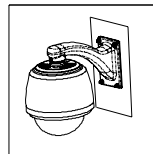
PTZ Dome Installation Mounts

For use with V1740 series outdoor PTZ domes

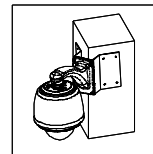
V1761	Wall Mount, 10" horizontal, 1.5" NPT
V1761L	Wall Mount, 17" horizontal, 1.5" NPT
V1762	Corner Mount, 10" horizontal, 1.5" NPT
V1763	Pole Mount, 10" horizontal, 1.5" NPT
V1764A	Pendent Mount, 15" long vertical, 1.5" NPT, outdoor side opening for wiring
V1764B	Pendent Mount, 15" long vertical, 1.5" NPT, outdoor top opening for wiring
V1765	Parapet Mount, 12" horizontal, vertical attachment, 1.5" NPT
V1765A	Parapet Mount, V1765 horizontal attachment adapter

For detailed information, please refer to V1760 series indoor/outdoor dome mounts

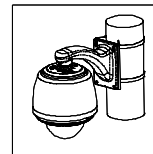
MOUNTING



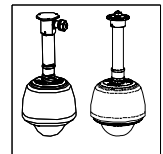
Wall Mounting



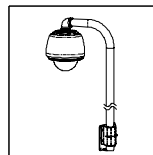
Corner Mounting



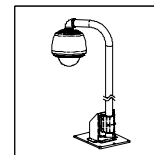
Pole Mounting



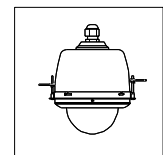
Pendant Mounting



Over-roof Side Wall Mounting



Over-roof horizontal Surface Mounting



Ceiling Mounting

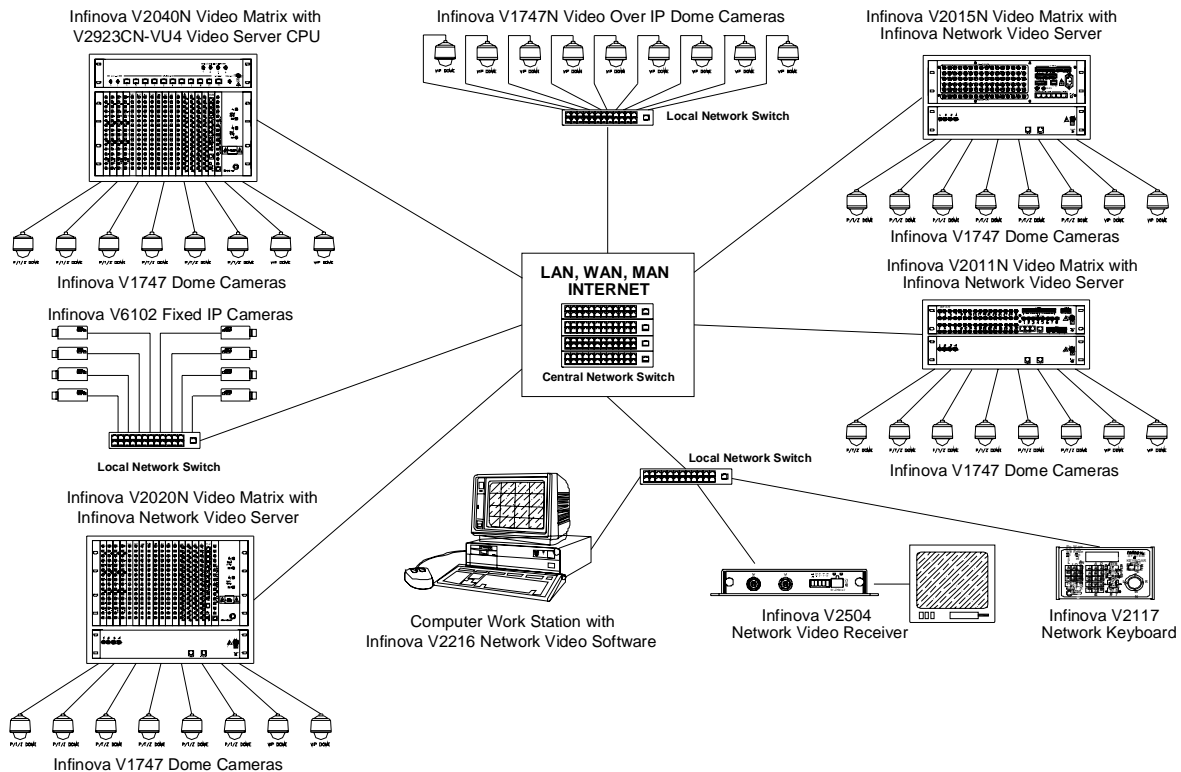
PTZ DOME CAMERA PART NUMBERING SYSTEM:

TYPE	BUBBLE	18X Color	22X Color	23X D/N	26X D/N	35X D/N	36X D/N
Outdoor	Recessed Clear	V1745A-C0C2C	V1746A-C0C2C	V1747A-C0C2C	V1748A-C0C2C	V1749A-C0C2C	V1743A-C0C2C
Recessed	Recessed Smoked	V1745A-C0S2C	V1746A-C0S2C	V1747A-C0S2C	V1748A-C0S2C	V1749A-C0S2C	V1743A-C0S2C
Ceiling Mount	Vandal-Resistant Clear	V1745A-C0C3C	V1746A-C0C3C	V1747A-C0C3C	V1748A-C0C3C	V1749A-C0C3C	V1743A-C0C3C
NTSC Camera	Vandal-Resistant Smoked	V1745A-C0S3C	V1746A-C0S3C	V1747A-C0S3C	V1748A-C0S3C	V1749A-C0S3C	V1743A-C0S3C
Outdoor	Recessed Clear	V1745A-C1C2C	V1746A-C1C2C	V1747A-C1C2C	V1748A-C1C2C	V1749A-C1C2C	V1743A-C1C2C
Recessed	Recessed Smoked	V1745A-C1S2C	V1746A-C1S2C	V1747A-C1S2C	V1748A-C1S2C	V1749A-C1S2C	V1743A-C1S2C
Ceiling Mount	Vandal-Resistant Clear	V1745A-C1C3C	V1746A-C1C3C	V1747A-C1C3C	V1748A-C1C3C	V1749A-C1C3C	V1743A-C1C3C
PAL Camera	Vandal-Resistant Smoked	V1745A-C1S3C	V1746A-C1S3C	V1747A-C1S3C	V1748A-C1S3C	V1749A-C1S3C	V1743A-C1S3C
Outdoor	Pendant Clear	V1745A-C0C2B	V1746A-C0C2B	V1747A-C0C2B	V1748A-C0C2B	V1749A-C0C2B	V1743A-C0C2B
Pendant Mount	Pendant Smoked	V1745A-C0S2B	V1746A-C0S2B	V1747A-C0S2B	V1748A-C0S2B	V1749A-C0S2B	V1743A-C0S2B
NTSC Camera	Vandal-Resistant Clear	V1745A-C0C3B	V1746A-C0C3B	V1747A-C0C3B	V1748A-C0C3B	V1749A-C0C3B	V1743A-C0C3B
	Vandal-Resistant Smoked	V1745A-C0S3B	V1746A-C0S3B	V1747A-C0S3B	V1748A-C0S3B	V1749A-C0S3B	V1743A-C0S3B
Outdoor	Pendant Clear	V1745A-C1C2B	V1746A-C1C2B	V1747A-C1C2B	V1748A-C1C2B	V1749A-C1C2B	V1743A-C1C2B
Pendant Mount	Pendant Smoked	V1745A-C1S2B	V1746A-C1S2B	V1747A-C1S2B	V1748A-C1S2B	V1749A-C1S2B	V1743A-C1S2B
PAL Camera	Vandal-Resistant Clear	V1745A-C1C3B	V1746A-C1C3B	V1747A-C1C3B	V1748A-C1C3B	V1749A-C1C3B	V1743A-C1C3B
	Vandal-Resistant Smoked	V1745A-C1S3B	V1746A-C1S3B	V1747A-C1S3B	V1748A-C1S3B	V1749A-C1S3B	V1743A-C1S3B

PART NUMBER EXTENSIONS FOR POWER INPUT SELECTION:

12 VDC	24 VAC	EX: 12 DC Input:	EX: 24 VAC Input:
5	6	V1745A-C0C2B5	V1745A-C0C2B6

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



CAMERA PARAMETERS

Dome Model	V1745A	V1746A	V1747A	V1748A	V1749A	V1743A
Optic Zoom	18X	22X	23X	26X	35X	36X
Video Type	PAL/NTSC (Color)	PAL/NTSC (Color)	PAL/NTSC (D/N)	PAL/NTSC (D/N)	PAL/NTSC (D/N)	PAL/NTSC (D/N)
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	1/4" Interlace Scanning CCD
Resolution	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)	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)	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	F1.6-4.5 f=3.4~122.4mm
Angle of View	48° (Wide) / 2.8° (Tele)	47°(Wide) / 2.2° (Tele)	54° (Wide) / 2.5° (Tele)	54.2° (Wide)/ 2.2° (Tele)	55.8° (Wide) / 1.7° (Tele)	57.8°(Wide)/ 1.7°(Tele)
Minimum Work Distance	0.29m (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)	0.32m (Wide) ~1.5m(Tele)
Sensitivity	1.0 lux (PAL: 1/50s, NTSC: 1/60s)	2.0 lux (214) 1.0 lux (274) (PAL: 1/50s, NTSC: 1/60s)	Color Mode (IR-Cut On): 1.0 lux (NTSC:1/60s, PAL: 1/50s) 0.1 lux (NTSC:1/4s, PAL: 1/3s) 0.05Lux (NTSC:1/2s, PAL: 1/1.5s) B/W Mode (IR-Cut Off): 0.01 lux (NTSC:1/4s, PAL 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)	Color Mode (IR-Cut On): 1.4Lux (NTSC: 1/60s, PAL: 1/50s) 0.1Lux (NTSC: 1/4s, PAL: 1/3s) B/W Mode (IR-Cut Off): 0.01Lux (NTSC: 1/4s, PAL: 1/3s)
Horizontal	480 TVL		540 TVL	480 TVL	540 TVL	530TVL
S/N Ratio	>50dB					
Video Output	1.0 ±0.2 Vp-p					
Backlight Compensation	Off/On					
Sync System	Internal/External					
WDR	/	/	OFF/WDR/ AD WDR/ WDR*/ AD WDR*	/	MD1/MD2/OFF	Off/On
FNR	/	/	OFF/AUTO/MANU	/	/	/
Stabilization	/	/	/	/	Yes	/
Digital Zoom	1~12X Adjustable					
DSS	No	Yes	Yes	Yes	Yes	Yes
Focus	Auto/Manual					
White Balance	Auto/Manual					
Shutter Speed	Auto: Default Set Manual: PAL: 1/50~1/10000s NTSC: 1/60~1/10000s	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: 1/1~1/10000s NTSC: 1/1~1/10000s	Auto: Default Set Manual: PAL: 1/1.5~1/30000s NTSC: 1/2~1/30000s	Auto: Default Set Manual: PAL: 1/1~1/10000s NTSC: 1/1~1/10000s
Iris	Auto/Manual					