

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



DESCRIPTION

Infinova's V1720A series represents a state-of-the-art line of indoor, 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 36 X12 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
- Easy to install with quick and simple electrical connections
- Exceeds IP66 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: | 6.19 lbs. (2.8 kg) |
| Product Dimension: | 10.83"×Φ8.58" (275mm×Φ218mm) |

Electrical

| | |
|---------------------------|--|
| Input Voltage: | 12 VDC, 24 VAC |
| Power Consumption: | 12 VDC: 15 watts 24 VAC: 20 watts |
| Power On In-Rush Current: | 12 VDC, 4 amps (maximum) 24 VAC, 2 amps (maximum) |

Environment

| | |
|------------------------|-----------------------------------|
| Operating Temperature: | 14°F ~ 104°F (-10°C ~ 40°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.

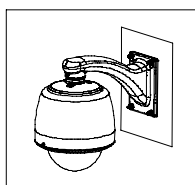
PTZ Dome Installation Mounts

For use with V1720 series indoor PTZ domes

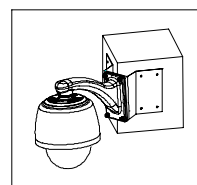
| | |
|--------|--|
| V1761 | Wall Mount, 10" horizontal, 1.5" NPT |
| V1761L | Wall Mount, 17" horizontal, 1.5" NPT |
| V1762 | Corner Mount, 10" horizontal, 1.5" NPT |
| V1763 | Pole Mount, 10" horizontal, 1.5" NPT |
| V1764 | Pendent Mount, 15" long vertical, 1.5" NPT, indoor |
| V1766 | Indoor Drop Ceiling Panel, 2'x2', pre-cut |
| V1760D | Desktop Demo Stand, 1.5" NPT |

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

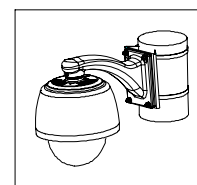
MOUNTING



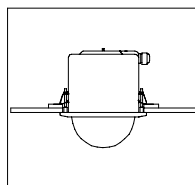
Wall Mounting



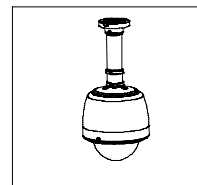
Corner Mounting



Pole Mounting



Ceiling Mounting



Pendant Mounting

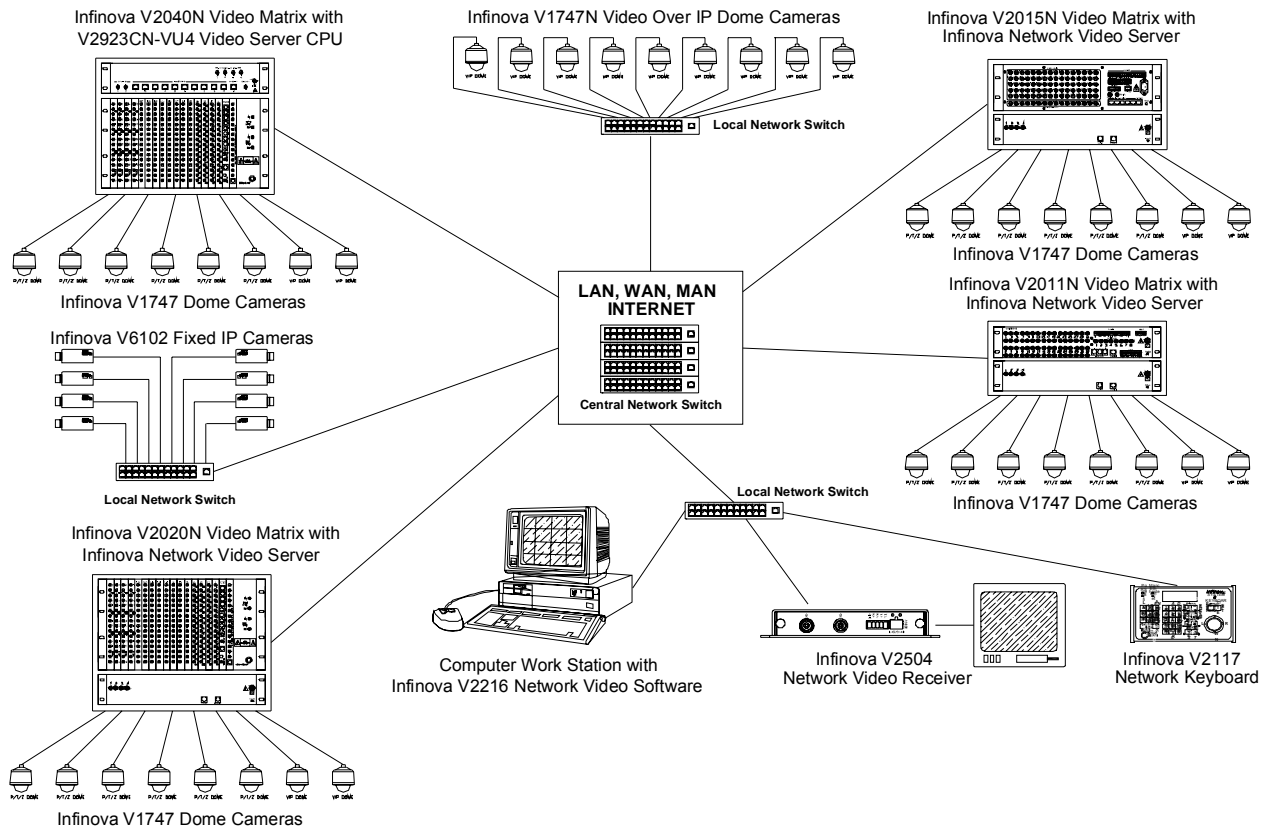
PTZ DOME CAMERA PART NUMBERING SYSTEM:

| TYPE | BUBBLE | 18X Color | 22X Color | 23X D/N | 26X D/N | 35X D/N | 36X D/N |
|---|-------------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Indoor Recessed Ceiling Mount NTSC Camera | Recessed Clear | V1725A-C0C2C | V1726A-C0C2C | V1727A-C0C2C | V1728A-C0C2C | V1729A-C0C2C | V1723A-C0C2C |
| | Recessed Smoked | V1725A-C0S2C | V1726A-C0S2C | V1727A-C0S2C | V1728A-C0S2C | V1729A-C0S2C | V1723A-C0S2C |
| | Vandal-Resistant Clear | V1725A-C0C3C | V1726A-C0C3C | V1727A-C0C3C | V1728A-C0C3C | V1729A-C0C3C | V1723A-C0C3C |
| | Vandal-Resistant Smoked | V1725A-C0S3C | V1726A-C0S3C | V1727A-C0S3C | V1728A-C0S3C | V1729A-C0S3C | V1723A-C0S3C |
| Indoor Recessed Ceiling Mount PAL Camera | Recessed Clear | V1725A-C1C2C | V1726A-C1C2C | V1727A-C1C2C | V1728A-C1C2C | V1729A-C1C2C | V1723A-C1C2C |
| | Recessed Smoked | V1725A-C1S2C | V1726A-C1S2C | V1727A-C1S2C | V1728A-C1S2C | V1729A-C1S2C | V1723A-C1S2C |
| | Vandal-Resistant Clear | V1725A-C1C3C | V1726A-C1C3C | V1727A-C1C3C | V1728A-C1C3C | V1729A-C1C3C | V1723A-C1C3C |
| | Vandal-Resistant Smoked | V1725A-C1S3C | V1726A-C1S3C | V1727A-C1S3C | V1728A-C1S3C | V1729A-C1S3C | V1723A-C1S3C |
| Indoor Pendant Mount NTSC Camera | Pendant Clear | V1725A-C0C2B | V1726A-C0C2B | V1727A-C0C2B | V1728A-C0C2B | V1729A-C0C2B | V1723A-C0C2B |
| | Pendant Smoked | V1725A-C0S2B | V1726A-C0S2B | V1727A-C0S2B | V1728A-C0S2B | V1729A-C0S2B | V1723A-C0S2B |
| | Vandal-Resistant Clear | V1725A-C0C3B | V1726A-C0C3B | V1727A-C0C3B | V1728A-C0C3B | V1729A-C0C3B | V1723A-C0C3B |
| | Vandal-Resistant Smoked | V1725A-C0S3B | V1726A-C0S3B | V1727A-C0S3B | V1728A-C0S3B | V1729A-C0S3B | V1723A-C0S3B |
| Indoor Pendant Mount PAL Camera | Pendant Clear | V1725A-C1C2B | V1726A-C1C2B | V1727A-C1C2B | V1728A-C1C2B | V1729A-C1C2B | V1723A-C1C2B |
| | Pendant Smoked | V1725A-C1S2B | V1726A-C1S2B | V1727A-C1S2B | V1728A-C1S2B | V1729A-C1S2B | V1723A-C1S2B |
| | Vandal-Resistant Clear | V1725A-C1C3B | V1726A-C1C3B | V1727A-C1C3B | V1728A-C1C3B | V1729A-C1C3B | V1723A-C1C3B |
| | Vandal-Resistant Smoked | V1725A-C1S3B | V1726A-C1S3B | V1727A-C1S3B | V1728A-C1S3B | V1729A-C1S3B | V1723A-C1S3B |

PART NUMBER EXTENSIONS FOR POWER INPUT SELECTION:

| 12 VDC | 24 VAC | EX: 12 DC Input: | EX: 24 VAC Input: |
|--------|--------|------------------|-------------------|
| 5 | 6 | V1725A-C0C2B5 | V1725A-C0C2B6 |

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



CAMERA PARAMETERS

| Dome Model | V1725A | V1726A | V1727A | V1728A | V1729A | V1723A |
|------------------------|---|---|---|---|--|--|
| 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 | | | | | |