



American Dynamics

A Tyco International Company

# IP SpeedDome

## IP Programmable Dome Cameras



### Features That Make a Difference:

- ONVIF-compatible
- Uses the intuitive Illustra Connect tool to make installation and configuration fast and easy
- Improved video and audio streaming
- 22x and 35x optical zoom
- Supports 30ips NTSC and 25ips PAL in H.264, MJPEG, MPEG-4 and ACC
- PoE leverages existing IT network infrastructure to reduce installation and startup costs
- 35x series offers 540 TVL, Electronic Image Stabilization, True Day/Night, and Wide Dynamic Range
- Time-stamped video and audio can provide synchronized information
- Up to 32 privacy zones
- Supports up to 96 preset positions with user-defined titles and 16 preset sequences
- Built-in web server
- Fully compatible with VideoEdge NVR v4.01 and Intellex IP

Leveraging the same innovative features found in the analog programmable dome cameras and adding the power of IP, IP SpeedDomes are available with either 420x total zoom (35x optical zoom with 12x digital magnifier) or 242x total zoom (22x optical zoom with 11x digital magnifier).

The 35x series includes powerful features that contribute to IP SpeedDomes high image quality including Electronic Image Stabilization, Wide Dynamic Range (WDR) and True Day/Night.

IP SpeedDomes offer de-interlacing which significantly improves picture quality by removing artifacts caused by capturing moving images at separate points in time. De-interlaced images enhance visual quality, reduce the workload for downstream image compression, and save storage space.

ONVIF compatibility allows the IP SpeedDome ready interoperability with other ONVIF-compliant third party NVRs. The Illustra Connect tool allows you to find this camera anywhere on the network.

Compatible with VideoEdge NVRs and Intellex IP, the IP domes support H.264, MJPEG, MPEG-4 and Active Content Compression (ACC) technology. Powerful bandwidth management capabilities allow the domes to monitor a single IP stream

and limit the amount of compressed data to a user-controlled threshold.

A built-in web server allows you to configure the domes and stream video using Internet Explorer version 6 and higher. An intuitive control interface lets you adjust images per second and resolution based upon specific viewing/recording requirements. In addition, you can easily access presets, patterns, and other programmable features.

Up to 16 streaming clients simultaneously are now supported. There is also added support for RTSP/TCP, RTP/RTSP/TCP, and RTP/RTSP/HTTP/TC, and full stream sharing to multiple clients.

Based on privilege level, you can access all or some of the functionality via the web:

- Live video and camera controls, as well as configuration of video, presets, patterns, scans/sequences, privacy zones, audio and camera settings.
- Configuration of the PTZ functionality overlay settings, areas within the field of view, alarms, sequences, scheduled tasks, video settings and audio.
- Networking configuration of camera date and time, TCP/IP, user rights, SMTP, FTP, firewall, general maintenance and advanced settings.



	35x Series	22x Series
<b>Camera</b>		
Horizontal Resolution	540 lines	470 lines
Imager	Interline transfer 1/4-inch CCD array	Interline transfer 1/4-inch CCD array
Scanning System	2:1 interlaced	2:1 interlaced
Wide Dynamic Range, EIS, Day/Night	Yes	No
S/N Ratio	>50 dB (typical)	>50 dB (typical)
Minimum Illumination (20IRE, AGC)	0.24 lux (Color); 0.028 lux (Color with 1/4 sec open shutter) 0.021 lux (B/W IR Mode); 0.00041 lux (B/W IR Mode with 1/2 sec open shutter)	0.3 lux (Color) 0.02 lux (Color with 1/4 sec open shutter)
White Balance	Through the Lens (TTL) Automatic; Tracing White Balance (ATW)	Through the Lens (TTL) Automatic Tracing White Balance (ATW)
Shutter Speed (Auto)	1/2 - 1/30,000 (1/1.5 - 1/30,000)	1/2 - 1/30,000 (1/1.5 - 1/30,000)
<b>Lens</b>		
Aperture (Aspherical Design)	f1.4	f1.6
Focal Length	3.4 to 119 mm	4 to 88 mm
Wide Angle (field of view)	3.4 mm/55.8 (H) x 41.8 (V)	4mm/47.3 (H) x 35.2 (V)
Telephoto (field of view)	119 mm/1.7 (H) x 1.3 (V)	88 mm/2.2 (H) x 1.05 (V)
Total/Optical/Digital Zoom	420x/35x/12x	242x/22x/12x
Video - Analog Output	1.0 Vp-p, 75 composite	1.0 Vp-p, 75 composite

## Common Specifications for IP SpeedDome

### Resolution & Compression

Video Resolution . . . . . 320 x 240 to 720 x 480 (NTSC);  
320 x 240 to 720 x 576 (PAL)  
Supported Codecs . . . . . MJPEG up to 30/25 ips in all resolutions  
MPEG-4 up to 30/25 ips in all resolutions  
ACC up to 30/25 ips in all resolutions  
H.264 up to 30/25 ips for 4CIF resolution  
Audio Compression . . . . . PCM, G711A, G711U

### Operational

Manual Pan/Tilt . . . . . 0.25°-100° per second (based on Zoom Manual position)  
Preset Pan/Tilt Speed . . . . . 360° per second, maximum (Pan) and 220° per second, maximum (Tilt)  
Pan Travel . . . . . 360° continuous  
Tilt Travel . . . . . 110°  
Pan/Tilt Accuracy . . . . . ± 0.5°  
Zoom/Focus Accuracy . . . . . ± 0.5°  
Programmable Patterns/Sequences/  
Areas/Privacy Zones . . . . . 96/16/16/16/32/1  
Direction Indicators . . . . . Yes  
Alarm Inputs . . . . . Four  
Alarm Outputs . . . . . One relay alarm output  
Menu Languages . . . . . English, French, German, Spanish, Portuguese

### Electrical

Power . . . . . 12VDC, 12.95W maximum  
Power over Ethernet (PoE) . . . . . Indoor, 12.95W maximum  
Surge Protection  
Analog Video . . . . . Gas discharge tube rated at: 8/20 µs Impulse  
Discharge Current: 5kA; Low-capacitance Zener  
suppressor of 6.5V, 1500 watts

### Network

(Ethernet 10/100Base-T) . . . . . Lightning Surge Suppressor PER GR-1089 Intra Building Requirements  
Audio . . . . . Bi-directional suppressor for ESD  
IEC61000-4-2 level 4:15kV (air discharge) 8kV (contact discharge)  
MIL STD 883E-Method 3015-7: Class 3B (Human Body Model)  
Alarms . . . . . TVS rated at 60V, 1.5 joules, Gas discharge tube rated at: 8/20 µs Impulse Discharge  
Current: 5kA  
3.3v TVS diode ESD Protection to IEC61000-4-2 level 4  
12VDC . . . . . TVS rated at 60V, 1.5 joules  
Connectors  
Data and Power . . . . . RJ-45 for 10 BaseT/100BaseT  
Alarms (In and Out) . . . . . 8 position alarm port  
Audio Video Cable Assembly . . . . . MIC line in (Electret), Audio Out, and Analog Video Port  
Power (12VDC Power Input) . . . . . 2 position 3.5mm Euro style connector

### Mechanical

Height (includes base) . . . . . 205 mm (8.0 in)  
Diameter . . . . . 120 mm (4.7 in)  
Housing & Eyeball Weight . . . . . 1.16 kg (2.56 lbs)

### Environmental

Operating Temperature . . . . . -10°C to 50°C (14°F to 122°F); With environmental housing: -40°C to 50°C; (-40°F to 122°F)  
Humidity . . . . . 95% noncondensing  
Storage Temperature . . . . . -20°C to 65°C (-4°F to 149°F)

### Regulatory

Emissions . . . . . FCC: Part 15 Class A; CE: EN55022 Class A  
AS/NZS CISPR22 Class A; ICES-003/NMB-003 Class A  
Immunity . . . . . CE: EN50130-4  
Safety . . . . . UL 1950, UL 50, UL60950-1; CSA 22.2 No. 950  
EN60529, EN60950-1

### Model Numbers

ADVEIPSD22N . . . . . 22x optical zoom, PoE, NTSC  
ADVEIPSD22P . . . . . 22x optical zoom, PoE, PAL  
ADVEIPSD35N . . . . . 35x optical zoom, True D/N, WDR, EIS, PoE, NTSC  
ADVEIPSD35P . . . . . 35x optical zoom, True D/N, WDR, EIS, PoE, PAL  
ADVESDHOC . . . . . Housing, Outdoor Pendant, Clear  
ADVESDHOS . . . . . Housing, Outdoor Pendant, Smoke  
ADVESDHOVRC . . . . . Housing, Outdoor Pendant, Vandal Resistant, Clear  
ADVESDHOVRS . . . . . Housing, Outdoor Pendant, Vandal Resistant, Smoke  
ADVESDHIC . . . . . Housing, Indoor, Clear  
ADVESDHIS . . . . . Housing, Indoor, Smoke  
ADVESDHICVR . . . . . Housing, Indoor Vandal Resistant, Clear  
ADVESDHISVR . . . . . Housing, Indoor Vandal Resistant, Smoke  
ADVESDHRDCLGC . . . . . Housing, Indoor Hard Ceiling, Clear Bubble  
ADVESDHRDCLGS . . . . . Housing, Indoor Hard Ceiling, Smoked Bubble  
ADVESDBASE . . . . . Base Mount Adapter

## Approvals



[www.americandynamics.net](http://www.americandynamics.net)