

# TVI-AP312-IR

## 2MP HD-TVI Outdoor IR PTZ Camera

**HD-TVI High Definition video over coaxial cable**

### Key features

#### IR functions

- 0 Lux minimum illumination
- Up to 398 Foot IR range
- IR light MTBF up to 30,000 hours

#### System functions

- 1/3" high performance CMOS, up to 1920x1280 resolution
- ±0.1° Preset Accuracy
- Self-adaptive to Pelco-P/D protocol
- 3D intelligent positioning function
- Power-off memory function: restores PTZ & Lens status after reboot
- Built-in temperature sensor, with internal temperature display
- Lightning protection, surge protection and voltage transient protection
- IP66 Weather rating
- RS-485 communication diagnosis
- Scheduled PTZ movement
- UTC (Up the Coax) function

#### Camera functions

- Auto focus
- Auto white balance
- Backlight compensation
- Auto/manual day & night switch
- Programmable privacy masks
- 3D Digital Noise Reduction
- Digital Wide Dynamic Range

#### PTZ functions

- 360° endless pan range and -15°-90° tilt range
- 240°/s Pan Preset Speed and 200°/s Tilt Preset Speed
- 0.1°-160°/s Manual Pan Speed and 0.1°-120°/s Manual Tilt Speed
- 256 Programmable presets
- Preset image freezing capability
- 8 patrols, up to 32 presets per patrol
- 4 patterns, with the total recording time not less than 10 minutes
- Proportional zoom function
- Park action: auto call up of PTZ movement, after a defined time of inactivity



**PTZ-PMPL**  
PTZ Pole Mount  
5" x 1.81" x 9.84"



**PTZ-CMPL**  
PTZ Corner Mount  
6.81" x 4.13" x 7.64"



**PTZ-CPM-L**  
PTZ Ceiling Mount, Long  
4.6" x 19.68"



**PTZ-WMP-L**  
PTZ Wall Mount, Long  
3.81" x 7.16" x 12.0"



**PTZ-WMP-S**  
PTZ Wall Mount, Short  
4.33" x 5.70" x 7.44"



**PTZ-CPM-S**  
PTZ Ceiling Mount, Short  
4.6" x 7.87"



**PTZ-JBPW**  
PTZ Junction Box  
15.61" x 8.23" x 12.20"

#### Ordering Information:

TVI-AP312-IR      2MP HD-TVI Outdoor IR PTZ Camera

# TVI-AP312-IR

## 2MP HD-TVI Outdoor IR PTZ Camera

### Camera

Image Sensor	1/3" CMOS
Max. Image Resolution	1920×1080
Frame Rate	50Hz:25fps(1920×1080) 60Hz:30fps(1920×1080)
Min. Illumination	Color: 0.02Lux@(F1.6,AGC ON) B/W: 0.002Lux@(F1.6,AGC ON) 0 lux with IR
White Balance	Auto / Manual / ATW / Indoor / Outdoor
AGC	Auto / Manual
S / N Ratio	≥ 50dB
3D DNR	Supported
Backlight Compensation	Supported
WDR	Digital WDR
Shutter Time	NTSC: 1-1/10,000s
Day & Night	IR Cut Filter
Digital Zoom	16x
Privacy Mask	8 privacy masks programmable; a maximum of 8 zones can be masked simultaneously on the same video screen
Focus Model	Auto / Semiautomatic / Manual

### Lens

Focal Length	4 - 120mm, 23X
Zoom Speed	Approx.3.0s (Optical Wide-Tele)
Angle of View	49-2.2 degree (Wide-Tele)
Min. Working Distance	10-1500mm (Wide-Tele)
Aperture	F1.6 - F3.7

### Pan and Tilt

Pan Range	360° endless
Pan Speed	Pan Manual Speed: 0.1°-160°/s, Pan Preset Speed: 240°/s
Tilt Range	-15° - 90° (Auto Flip )
Tilt Speed	Tilt Manual Speed: 0.1°-120°/s, Tilt Preset Speed: 200°/s
Proportional Zoom	Rotation speed can be adjusted automatically according to zoom multiples
Number of Preset	256
Patrol	8 patrols, up to 32 presets per patrol
Pattern	4 patterns, with the total recording time not less than 10 minutes
Power-off Memory	Supported
Park Action	Preset / Patrol / Pattern / Pan scan / Tilt scan / Frame Scan / Random scan / Panorama scan
PTZ Position Display	On / Off
Preset Freezing	Supported
Scheduled Task	Preset / Patrol / Pattern / Pan scan / Tilt scan / Frame Scan / Random scan / Panorama scan
RS-485	Supported

### Infrared

R Distance	398'
IR Intensity	Automatically adjusted, according to zoom ratio

### Input/ Output

Monitor Output	1 turbo HD1080p output
RS-485 Interface	Half-duplex mode

### General

Menu Language	English, Chinese
Power Supply	24VAC (Included) Max. 30W(IR: 9W, Heater: 6W)
Operating Temperature	-30°C - 65°C (-22°F - 149°F)
Humidity	90% or less
Protection Level	IP66 standard TVS 4,000V lightning protection, surge protection and voltage transient protection
Dimensions	220 × 353.4mm (8.66" × 13.91")
Weight (approx.)	4.5kg (9.92 lbs)

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