



## Indoor / Outdoor 3 MP Motorized PTZ Dome Network Camera

TV-IP420P (v1.0R)

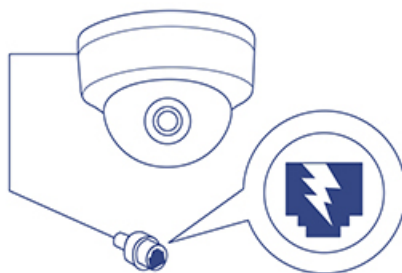
- Motorized PTZ
- 3 MP HD resolution
- 4x optical zoom, 16x digital zoom, and autofocus
- Outdoor IP66 weather rating
- Digital Wide Dynamic Range image balancing

The Indoor / Outdoor 3 MP Motorized PTZ Dome Network Camera with varifocal lens, model TV-IP420P, provides PTZ and powerful 3 MP resolution in low-light environments. This ultra-compact camera delivers year round surveillance with an IP66 weather rated housing to withstand extreme environments. Use the included pro-grade software to manage up to 32 TRENDnet cameras. Free iOS<sup>®</sup> and Android<sup>™</sup> mobile apps support remote live viewing and view up to 350° with the motorized pan tilt feature.



### Motorized PTZ

Motorized 350° pan and 90° tilt, with user defined 3D zoom within the web interface.



### Power over Ethernet (PoE)

PoE offers cost savings and the flexibility to install this compact dome camera in the desired location.



### Outdoor Ready

Built for extreme environments with an IP66 weather rating and an operating temperature range of -30 – 60 °C (-22 – 140 °F).

## Networking Solution



- 1 Mounting base
- 2 IP66 housing
- 3 Motorized PTZ
- 4 PoE port
- 5 Power port
- 6 RS-485
- 7 Audio / Alarm

## Hardware



### Motorized PTZ

Motorized 350° pan and 90° tilt, with user defined 3D zoom within the web interface



### Powerful Zoom

4x optical zoom and 16x digital zoom



### Outdoor Ready

Built for extreme environments with an IP66 weather rating and an operating temperature range of -30 – 65 °C (-22 – 149 °F)



### Vandal Resistant

IK10 impact protection rating

## Features



### 3 Megapixel

Record 2048 x 1536 at 25 fps in the space saving H.264 compression format



### Storage

Record video to a network storage device or to a Micro SD card (up to 128 GB sold separately)



### Tamper Detection

Receive tamper detection trigger alarm



### D-WDR

Improve image quality and autofocus in high contrast lighting environments with Digital Wide Dynamic Range technology



### Recording Flexibility

Define custom schedules, continuous 24/7, or event-based recording modes



### ONVIF / PSIA

ONVIF Profile S, Profile G and PSIA compliant



### Complimentary Software

Complimentary pro-grade software to manage up to 32 TRENDnet cameras



### Complimentary Apps

Live video to a mobile device with free iOS® and Android™ apps

## Specifications

### Lens

- Focal length: 2.8 - 12 mm
- Focal depth: 10 – 1,500 mm (Wide - Tele)
- Aperture: F1.6 – 2.7 (Wide - Tele)
- Sensor: 1/2.8" Progressive Scan CMOS
- Focus: auto, semi-auto, and manual
- Iris control: auto and manual

### Viewing Angle

- 105 – 33.5° (Wide – Tele)

### Zoom

- Optical: 4x
- Digital: 16x

### Pan/Tilt

- Pan: 0° – 350°
- Tilt: 0 – 90°
- Pan speed: (manual) 0.1 – 60°/s, (preset) 60°/s
- Tilt speed: (manual) 0.1 – 50°/s, (preset) 50°/s
- Number of presets: 256
- Patrol: 8 patrols, up to 32 presets per patrol

### Video

- Digital Wide Dynamic Range (D-WDR)
- Backlight Compensation (BLC)
- 3D Digital Noise Reduction (DNR)
- Shutter speed: 1 – 1/10,000s
- H.264 resolution: 2048 x 1536 up to 25 fps
- MJPEG resolution: 704 x 576 up to 25 fps

### Audio

- 2-way audio supported (mic and speaker not included)
- External microphone line in / speaker line out

### I/O

- External input / output for alarm installation

### Micro SD

- Up to 128 GB micro SD card support

### Hardware Standards

- IEEE 802.1x
- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3af

### Device Interface

- 10/100 Mbps PoE port
- Power connector (for non-PoE installation)
- Audio wires (in / out / ground)
- Alarm wires (in / out / ground)
- Micro SD card slot (128 GB max.)

### Input / Output

- Alarm input: 1 (0 – 5 V DC)
- Alarm output: 1 relay output

- Audio input: 1 audio line in, 2 – 2.4 V; impedance: 1000  $\Omega$ ,  $\pm$  10%
- Audio output: 1 output line out, impedance: 600  $\Omega$

### Housing

- IP66 and IK10 rated
- TVS 4,000 V lightning, surge, and voltage transient protection

### Network Protocol

- IPv4, IPv6, UDP, TCP, IGMP, ICMP, ONVIF v2.2
- DHCP, NTP, DNS, DDNS, SMTP, FTP, SNMP (v1, v2c, v3)
- CIFS / SMB, NFS
- HTTP, HTTPS
- PPPoE
- UPnP, RTSP, RTP

### Operating Temperature

- -30 – 65 °C (-22 – 149 °F)

### Operating Humidity

- Max. 90% non-condensing

### Certifications

- CE
- FCC

### Dimensions

- 140 x 140 x 107 mm (5.5 x 5.5 x 4.2 in.)

### Weight

- 0.93 kg (2.05 lbs.)

### Power

- Input: PoE (IEEE 802.3af)
- Consumption: 8 Watts max.

### Optional Power Supply (sold separately)

- Output: 12 V DC 1 A
- 5.5 mm barrel connector
- TRENDnet power adapter, model 12VDC1A, sold separately

### Management Interface

- Multi-language support: English, French, German, Russian, and Spanish
- IP address filter
- QoS traffic prioritization
- Time, date, and text overlay
- Display settings: brightness, contrast, saturation, limit gain, sharpness, focus mode, minimum focus, exposure mode, video standard, day / night switch, sensitivity, mirror, slow shutter, D-WDR, lens initialization, BLC, white balance, digital noise reduction, noise reduction level, Defog mode, zoom limit, HLC, EIS
- D-WDR enhances video quality in high contrast daytime lighting

- 3D DNR Digital Noise Reduction enhances night vision quality
- Scheduled recording: continuous and motion detection
- Video storage: to computer, NAS, CIFS / SMB share, NFS, Micro SD card, FTP server, or via software
- Motion detection fields: define custom motion detection areas, motion sensitivity, and dynamic motion analysis
- Smart privacy masks: custom privacy masks are fixed to an area of interest as the camera pans and tilts
- Tamper detection: email notification if the viewing field is suddenly obscured
- Browser video playback: advanced playback functionality with visual timeline displaying detected motion and scheduled recordings
- Alert messages: storage full, storage error, and illegal login
- Snapshot: real time snapshot, motion detection with schedule, tamper detection with schedule
- Supported dynamic DNS services: dyn.com and No-IP.org
- Management setting: maximum 32 user accounts
- Supports remote management
- Storage logs: alarm, exception, operation, and others
- Compatibility: Internet Explorer® 9.0 or higher, Safari® 5.0 or higher

### TRENDnetVIEW Pro Software

- Supports up to 32 TRENDnet cameras
- Multiple language support
- Set recording options (motion detection, schedule, event trigger)
- Search and playback
- Custom viewing modes and options
- Compatibility: Windows® 10, 8.1, 8, 7, Vista, XP, Windows Server® 2003, 2008, 2012

### TRENDnet IPVIEW App

- Free iOS and Android™ apps
- View your live video on your mobile device
- Take snapshots
- Pan / Tilt / Zoom

### Warranty

- 3 year limited

### Package Contents

- TV-IP420P
- CD-ROM (Software & User's Guide)
- Quick Installation Guide
- Camera mounting hardware

