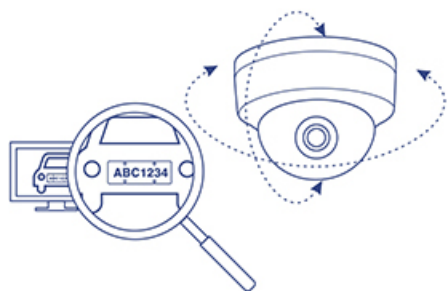# TRENDNET®

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® and Android™ mobile apps support remote live viewing and view up to 350° with the motorized pan tilt feature.

TRENDNET®

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

❶ Mounting base

❷ IP66 housing

❸ Motorized PTZ

❹ PoE port

❺ Power port

❻ RS-485

❼ Audio / Alarm

TRENDnet®

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

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 Ω, ± 10%
- Audio output: 1 output line out, impedance: 600 Ω

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

Updated: 5/3/2017