Wireless PTZ Cloud Camera
TV-IP851WC (v1.0R)

TRENDnet's Wireless PTZ Cloud Camera, model TV-IP851WC, takes the work out of viewing video over the internet. Previously to view video remotely, users needed to perform many complicated and time consuming steps: such as signing up for a third party dynamic IP service and reconfiguring their router. The TRENDnet Cloud service removes all of these complicated steps. Users simply open a web browser and log into the TRENDnet Cloud with their unique password to view and manage this camera. A free app for mobile devices brings live video to smart phones and tablets.

ABOUT THE TV-IP851WC

Pan the camera side-to-side a remarkable 340° and tilt up-and-down 115° from any internet connection. Wireless n technology connects the camera to a wireless network and provides unsurpassed wireless coverage and improved streaming video quality. Add this camera to your wireless network at the touch of a button with Wi-Fi Protected Setup (WPS). The TV-IP851WC offers 640 x 480 (VGA) video at up to 20 frames per second (fps), one-way audio, an adjustable lens, motion detection recording, scheduled recordings, email alerts, pan / tilt, Auto-Patrol, date and time overlay, and four times digital zoom. A wall / ceiling mounting kit is included and the camera's off white housing blends into most environments.

ABOUT TRENDNETVIEW PRO MANAGEMENT SOFTWARE

Users can either manage each TRENDnet camera individually from their respective camera user interface or can use free included enterprise class TRENDnetVIEW Pro software to manage up to 32 TRENDnet cameras. TRENDnetVIEW Pro is compatible with Windows 7 and Microsoft Server 2008 operating systems and is compatible with all current TRENDnet cameras.

TRENDnetVIEW Pro provides users with extensive camera viewing options. Users can define a combination of weekly recording schedules and motion detection recording; program motion detection areas of any shape; set date, time, and text overlays.

Zero loss architecture is provided with the ability to record a single video stream to multiple locations simultaneously. Manage recording files by recording time or by space allocation. Search and playback functionality is particularly advanced. A navigation timeline provides a quick visual reference to recorded content by displaying when video and motion was recorded over a set time.

PRODUCT OVERVIEW

- View and manage your camera with TRENDnet's free cloud service

- Pan 340° side-to-side and tilt 115° up-and-down

- High speed wireless n connection

- Program motion detection recording, recording schedules, email alerts and more with complimentary software

- Wall / ceiling mounting kit

- Free mobile app

TRENDNET CLOUD SERVICE

- Free cloud service

- Automatically connects to a TRENDnet Cloud camera over the Internet

  - Cloud service eliminates the previous requirement to sign up for a Dynamic DNS service and reconfigure your router and IP camera

  - Cloud camera requires internet connection

- Each camera accessed individually with unique web address (URL)

- Password protected cloud service

- Access to live video

- Full camera management with adequate network connection

- A single camera can be viewed remotely by multiple users concurrently

  - The number of concurrent users is limited by ISP network bandwidth

- Remotely view multiple cameras on the same local area network (LAN)

  - The number of viewable cameras is limited by ISP network bandwidth

- Cloud App for mobile devices (iOS® and Android® support)

CAMERA HARDWARE FEATURES

- Wi-Fi compliant with IEEE 802.11n standard

- Backwards compatible with IEEE 802.11g and 802.11b devices

- One touch Wi-Fi Protected Setup (WPS) connection button

- 1 x 10/100 Mbps Ethernet port (for optional wired installation)

- Power and activity LED indicators (can be disabled)

- Privacy button: Press once to point camera down and obscure viewing field. Press again to restore camera to previous viewing position. (can disable button from GUI)

- 1-way audio

- Reset button

- 4x digital zoom

- Pan left or right 170° for a total of 340°

- Tilt the camera up 90° and down 25° for a total of 115°

- Dynamic DNS support

- Supports up to 640 x 480 pixel resolution at up to 20 frames per second

- Compression Rate: Very Low, Low, Medium (default), High, and Very High

- Image controls: brightness, contrast, saturation, light frequency, flip image vertically, mirror image horizontally

- Define a recording schedule or motion detection recording

- Create motion detection fields of any shape over the viewing area

- Supports TCP/IP networking, email, HTTP, and other internet protocols

- System controls:

- Define up to 64 user login accounts

- Set the date and time or synchronize with an NTP server

- Supports wireless encryption up to WPA2-PSK

    - Quick Universal Plug and Play (UPnP) installation

    - Mounting base and mounting hardware included

- 3-year limited warranty

TRENDNETVIEW PRO CAMERA SOFTWARE FEATURES

- Manage up to 32 cameras
- Compatible with Microsoft Windows desktop and Server operating systems
- Multiple language support
- Camera Viewing
    - Preset viewing modes
    - Program custom viewing modes
    - Full screen view
    - Drag and drop live feeds to a new location
    - Program camera cycle viewing sequence
    - Motion detection brings video forward
    - Side, top, and bottom tool bars can be hidden
    - Web based access from smart phones and tablets
- Recording options
    - Program weekly recording schedules
    - Motion detection recording
        - Define motion detection areas of any shape
        - Define motion detection sensitivity
    - Event trigger recording
    - Date and time overlay
    - Save a single video stream to multiple locations simultaneously
    - Define recording quotas by recording time or space allocation
    - Disk clean feature condenses and optimizes old files
    - Real time recording stats to help manage files
- Search and Playback
    - Navigation timeline provides a quick visual reference to the recorded content
    - Search continuous recordings by motion
    - Search recordings by motion within a defined field (a portion of the viewing area)
    - Time lapse playback search
- Map cameras on an image such as a floor plan
- Map cameras on Google Maps™

 * Monitoring multiple cameras may require a high performance CPU

SPECIFICATIONS

CAMERA	

General	• Sensor: 1/5" CMOS Sensor
	• Board Lens
	• Focal Length: 4 mm
	• F/No: 1.5
	• Minimum illumination: 1 lux
	• Focus Depth: 20 cm ~ infinity
	• View:
	   • Horizontal: 38.0°
	   • Vertical: 28.7°
	   • Diagonal: 46.5°
	• Digital Zoom: 4x

Audio	• Directional microphone • Sensitivity: -38 dB +/- 3 dB (5 meters max) • Frequency: 10~20000 Hz • S/N: >60 dB • Format: PCM
Pan & Tilt	• Pan: -170° ~ +170° • Tilt: up 90°and down 25° • Auto-Patrol preset positions: 24

HARDWARE	
Network	• IEEE 802.3u 10/100 Mbps Auto-MDIX Fast Ethernet
LED	• Power, Link / Act
WPS Button	• Push to enable WPS
Reset Button	• Reset to factory default
Privacy Button	• Privacy mode on / off
Power Consumption	• Max 6.1 watts
Power	• Input: 100~240 V, 50/60 Hz, 0.5 A • Output: 12 V, 1.25 A external power adapter
Dimension	• 113 x 113 x 130 mm (4.5 x 4.5 x 5.1 in.)
Weight	• 503 g (1.1 lbs.)
Temperature	• Operating: 0°C ~ 40°C (32°F ~ 104°F) • Storage: -25°C ~ 70°C (-13°F ~ 158°F)
Humidity	• Max 90% (non-condensing)
Certifications	• CE, FCC

SPECIFICATIONS

REQUIREMENT	
Management Interface	• Internet Explorer 7.0 or higher • Firefox 3.5 or higher • Safari 4.0 or higher • Google Chrome 19.0 or higher
To Run software	• Windows 8, Windows 7 (32/64-bit), Vista (32/64-bit), XP (32/64-bit) • Windows Server 2003, 2008
TRENDnetVIEW Pro Software	• Channel: supports up to 32 cameras • Record / Playback / Motion Detection / Audio
Network Protocols	• IPv4, ARP, TCP, UDP, ICMP • DHCP Client, NTP Client, DNS Client, DDNS Client, SMTP Client FTP Client • HTTP • PPPoE • UPnP

WIRELESS	
Standard	• IEEE 802.11b, 802.11g, and 802.11n
Frequency	• 2.4 ~ 2.497 GHz ISM band
Antenna	• 1 x detachable 2 dBi dipole antennas (Reverse-SMA connector)
Date Rate	• 802.11b: up to 11 Mbps • 802.11g: up to 54 Mbps • 802.11n: up to 150 Mbps
Security	• 64/128-bit WEP, WPA / WPA2-PSK
Output Power	• 802.11b: 18 dBm (typical) • 802.11g: 15 dBm (typical) • 802.11n: 15 dBm (typical)
Receiving Sensitivity	• 802.11b: -85 dBm at 11 Mbps • 802.11g: -76 dBm at 54 Mbps • 802.11n: -65 dBm at 150 Mbps
Channels	• 1~11 (FCC), 1~13 (ETSI)

MANAGEMENT	
Accounts	• Up to 64 user accounts
Remote Login	• Remote management supported
Backup / Restore	• Save / retrieve configuration files
Cloud Link	• Display status and URL, enable / disable, refresh

SETTINGS	
Image	• Brightness, contrast, saturation, light frequency, flip, mirror (horizontal / vertical)

Video Setting	• Encoding: MJPEG
	  • Resolution and frame rate: VGA @ 20fps, QVGA @ 30fps, QQVGA @ 30fps
	  • JPEG quality: Very Low, Low, Medium (default), High, Very High

Recording	• Event based (motion detection) and scheduled
Snapshot	• Trigger event: motion detection • Action: send alert email and/or upload to FTP • Real time snapshot
Port Settings	• HTTP port: 80 (default)
Time	• Synchronize with NTP server or PC, or set time / date manually

CLOUD CAMERA

NETWORKING SOLUTIONS

Wireless PTZ Cloud Camera
TV-IP851WC

TRENDnet Cloud

PACKAGE CONTENTS

TV-IP851WC

CD-ROM (Utility, Software & User's Guide)

Multi-Language Quick Installation Guide

Network cable (1.5 m / 5 ft.)

Power adapter (12V DC, 1.25A)

Camera mounting kit

RELATED PRODUCTS

TV-IP851WIC	Wireless Day / Night PTZ Cloud Camera
TV-IP751WC	Wireless Cloud Camera
TV-IP751WIC	Wireless Day / Night Cloud Camera

CONTACT INFORMATION

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