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You can read the recommendations in the user guide, the technical guide or the installation guide for TRENDNET TV-IP651WI. You'll find the answers to all your questions on the TRENDNET TV-IP651WI in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual TRENDNET TV-IP651WI
User guide TRENDNET TV-IP651WI
Operating instructions TRENDNET TV-IP651WI
Instructions for use TRENDNET TV-IP651WI
Instruction manual TRENDNET TV-IP651WI



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18 Up Day/Night Mode (for TVIP651WI)
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.. 1 16 2011 TRENDnet. All Rights Reserved. © Copyright 2 . 23 How to setup/access the camera remotely

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Camera, model TV IP651W, provides security over a large area.

Pan the camera side to side a remarkable 340 degrees and tilt up and down 115 degrees from any Internet connection. Wireless technology provides unsurpassed wireless coverage and improved streaming video quality. Add this camera to your wireless network at the touch of a button with Protected Setup (WPS). WiFi Protected Setup (WPS) Record 640 x 480 pixel (VGA) video at up to 20 frames per second (fps). Manage up to 32 Trendnet cameras with the included complimentary camera management software. 32 Trendnet Advanced features include adjustable motion detection recording areas, email alerts, LED recording sessions, pan/tilt AutoPatrol, date and time overlays, oneway scheduling audio, a adjustable lens and four times digital zoom. A wall/ceiling mounting kit is included and the camera's blends into most environments. Sleek white housing TV VIP651W TVIP651W WI TVIP651WI The Wireless Night Day/Night PTZ Internet Camera, model TV IP651WI, provides day and security over a large area. Pan the camera side to side a remarkable 340 degrees and tilt up and down 115 degrees from any Internet connection. Wireless Record indoor video in complete darkness for distances of up to 7.5 meters. WPA technology provides unsurpassed wireless coverage and improved streaming video with network at the touch of a button with WiFi quality. Add this camera to your wireless Protected Setup (WPS). VGA) video at up to 20 frames per second (fps). Manage up to 32 Trendnet cameras with the included complimentary camera management software.

32 Trendnet Advanced features include adjustable motion detection recording areas, email alerts, LED recording sessions, pan/tilt AutoPatrol, date and time overlays, oneway scheduling audio, a adjustable lens and four times digital zoom. A wall/ceiling mounting kit is included and the camera's blends into most environments. Sleek white housing Contents Package C In addition to your camera, the package includes: MultiLanguage Quick Installation Guide CDROM (Utility & User's Guide) Network cable (1.5m / 5ft) Power adapter (12V DC C, 1.25A) and contents are missing or damaged, please contact the retailer, online if any package retailer, or reseller/distributor that the item was purchased.

© Copyright 2012 TRENDnet. All Rights Reserved. 1 net User's Guide TRENDnet TVIP651 1W / TVIP651WI Product Hardware Features Rear Panel View Front Panel View Light Sensor IR LED Camera Lens Focus Ring Antenna WPS button LAN port Privacy button Microphone Power Link LED Power port Reset button Port Connect Ethernet LAN Port cables to your wired network devices. Power Port Connect the included power adapter from your camera to an available power outlet. Note: Use only the adapter that came with your camera. Reset Button Use an item such as a paperclip to push and hold this button for 3 seconds and release it to reset your camera to its factory defaults. WPS (WiFi Protected Setup) Push and hold this button for 3 seconds to activate WPS. The button LED is blinking green when WPS is activated. Antenna 2dBi detachable antenna IR LED Built-in 4 IR LED for night vision uses. (for TV VIP651WI) Light Sensor Detects the light source to turn IR on or off.

Focus Ring Turn to adjust the focus of the camera. Microphone Built-in microphone for audio can be turned on or off. Privacy button Turns the camera on/off when necessary. Power This LED indicator is solid blue when your camera is powered on. If there is no power to your camera. Otherwise if this LED indicator is off to Link This LED indicator is blinking orange when there is connection/data to your camera. © Copyright 2012 TRENDnet. All Rights Reserved. 2 net User's Guide TRENDnet TVIP651 1W / TVIP651WI WPS Connection An alternative method of connecting your camera to your network is by using WPS. WPS is a quick, simple and secure method of adding devices to a network.

If you have a router which supports WPS follow the steps below, otherwise, please use the wired mode of setting up the camera. 1. Attach the Power Supply Installation Wired Connection 1. Connect the Ethernet Cable If you intend to use the camera as a wired device, connect one end of the included Ethernet cable into the Ethernet port on the rear panel of the camera and connect the other end to an available port on your network. If you prefer to use the camera on a wireless network, see below for instructions on connecting the power adapter.

2. Attach the Power Supply Attach the included power supply to the DC 12V 1.25A receptacle on the rear panel of the camera and then connect it to a wall outlet or power strip. A blue light will light up under the lens indicating that the camera has power. LED 2.

on Press the WPS button on your wireless device then press the WPS button on the camera. © Copyright 2012 TRENDnet. All Rights Reserved. 3 net User's Guide TRENDnet Wall mount installation To attach the metal plates carry out the following: TVIP651 1W / TVIP651WI Remove the two rubber pads under the base of the Camera.



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Slide the metal plate onto the base of the camera, making sure that the two holes on the base of the camera align with the two screw holes on the base of the camera. Reattach the metal plate to the base of the camera with the two security screws provided. The camera can now be mounted to the ceiling or a wall. See the diagram below for more information. © Copyright 2012 TRENDnet. All Rights Reserved.

4 net User's Guide TRENDnet TVIP651 1W / TVIP651WI 2. Connect an RJ45 cable from a switch/router to the Ethernet port on the back of the camera and connect the AC power adapter to the camera. Click Next to proceed. Starting the Setup Wizard Insert the included CDROM into your CD/DVD drive. The Install Wizard program will run automatically. Note: If the Install Wizard does not run, you may have autorun disabled on your computer and the machine. In this case, browse to the CD drive and run InstallWizard.exe to begin the installation. installation will Begin by selecting Setup Wizard and follow the onscreen step to continue through the installation. 3.

From the list of cameras that appears, select the camera you wish to configure and click Next to continue. If your camera is not listed, ensure that it is powered on to reselect connected to power and the network and click on the network for your camera. When the installation turns to wireless mode then click Next to continue. TVIP651 1W / TVIP651WI When the Setup Wizard has finished, the configuration is complete. If there is a connection found, the following screen will appear: wireless connection the Setup Wizard has finished, the wireless configuration is complete.

If there is no wireless connection found, the following screen will appear: © Copyright 2012 TRENDnet. All Rights Reserved. 9 net User's Guide TRENDnet TVIP651 1W / TVIP651WI Configuration After completing the Setup Wizard, you are ready to use your camera. The camera's built-in Web configuration utility is designed to allow you to easily access and configure your TVIP651 1W or TVIP651WI camera. Open a web browser such as Internet Explorer® and enter the IP address of your camera.

To log in, use the User name admin and the password you created in the Setup Wizard. If you did not create a password, the default admin. After entering your password, click OK. password is admin Video View Click VIEW VIDEO \ ACTIVE VEX or VIEW VIDEO O \ JAVA to begin viewing live video from your camera. VIEW VIDEO \ ACTIVE Window users who do not have Java installed can choose ActiveX mode to view video. Internet Explorer will prompt you to install ActiveX when you click on the VIEW VIDEO \ ACTIVE X link. Mac users must use the Java mode to view video. The home page for the TVIP651W or TVIP651WI appears. © Copyright 2012 TRENDnet. All Rights Reserved. 10 net User's Guide TRENDnet VIEW VIDEO \ JAVA Please make sure that you have the latest version of Java installed on your machine to ensure proper operation when viewing video in Java mode.

The Java application can be downloaded from Sun's website free of charge (<http://www.java.com>) To view camera settings: 1. 2. TVIP651 1W / TVIP651WI Viewing Camera Settings Login to the camera Click ADMINISTRATION. The system status screen appears. From the menu on the left side of the screen, select an option under the STATUS heading. © Copyright 2012 TRENDnet. All Rights Reserved. 11 net User's Guide TRENDnet System This screen shows the Camera Name, Location, Model, Firmware Version, MAC Address, IP Address, Ethernet Link Status, Speed and Duplex type.

Audio TVIP651 1W / TVIP651WI This screen shows whether audio is enabled and the volume level of the audio. Video This screen shows the details of the video capture settings including Video Resolution, Compression Rate, Frame Rate, Frame Size and Light Frequency. Wireless encryption This screen shows the connection mode, link status, SSID name, channel and encryption status. © Copyright 2012 TRENDnet. All Rights Reserved.

12 net User's Guide TRENDnet Network This screen shows various network statistics related to your camera including IP Address, Subnet Mask and Default Gateway. TVIP651 1W / TVIP651WI Configuring Camera Settings The TVIP651W allows you to make configuration changes from anywhere by connecting to the camera using a standard web browser. To configure camera settings: 1. 2. 3.

Login to the camera as described in the section Using the web-based configuration interface. Click ADMINISTRATION. The system status screen appears. Click CONFIGURATION from the menu on the left side of the screen. The System configuration screen is displayed. You can then click on any of the menu items on the left of the screen under the Configuration menu to select the item to modify settings. Active Users This screen shows whether there are any active users logged on to the camera viewing live video. System Camera Name: This is the name used to identify your camera on your network. Enter a description of the place where the camera is. Location: You can assign.

LED you can change the administrator user name and password Admin: In this field (Max. password length is 8 characters) if the setting this to Normal will display the lights on the front of LED Control: Set turn off power and network activity. Setting camera indicating this to OFF will turn both lights on the front of the camera. © Copyright 2012 TRENDnet. All Rights Reserved. 13 net User's Guide TRENDnet TVIP651 1W / TVIP651WI Light Frequency Select the correct frequency (50 Hz/60Hz) to reduce the amount of flicker. Mirror: Choose whether to mirror the image horizontally or vertically. AntiFlicker: Check the box to enable antiflicker. Privacy button: When the privacy feature is enabled, you can turn on and off the privacy mode by pressing the Privacy button for 5 seconds. When privacy feature is disabled, the privacy button will not take action. Video Video Resolution: Select from one of the three resolutions. Higher values provide better quality but at the expense of higher bandwidth requirements on your network or internet connection.



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Compression Rate: Select a compression rate. Higher rates of compression will reduce network load at the expense of lower image quality. Frame Rate (Frames/Sec): Select the number of frames per second you would like for your video. Higher rates provide smoother video but require more bandwidth on your network or internet connection. Brightness Control: Allows you to control the brightness level. Enter a value between 1 and 128. Contrast Control: Allows you to control the contrast level.

Enter a value between 1 and 128. Saturation Control: Allows you to control the saturation level. Enter a value between 1 and 128. © Copyright 2012 TRENDnet. All Rights Reserved. 14 Audio: Choose whether to Enable or Disable the camera audio feed. Volume: Select the volume percentage level. User's Guide: TRENDnet TVIP651 1W / TVIP651WI applicable as you have specified on the access point. If you intend to use AdHoc mode, you specify here the encryption type and preshared key that can be used to connect from the PC. Wireless Connection Mode: Infrastructure is a wireless connection using an access point as a transmission point for all wireless devices.

AdHoc is a wireless connection used without an access point, where your TVIP651W or TVIP651WI is directly connected to your PC. This is done using the onboard wireless adapter on the TVIP651W or TVIP651WI connected to a wireless adapter on the PC. SSID: Service Set Identifier. This is an identifier for your network. Manual: Enter the SSID of your wireless network or select it from the drop down menu. You can click Site Survey to see a list of wireless networks within range and view further details of their settings. Wireless Channel: When using Infrastructure mode, the channel is specified by the access point and the channel will not be selectable on this menu. When using AdHoc mode, you can specify on which channel you want to communicate with the camera. Encryption Type: It is highly recommended that you encrypt the connection. In Infrastructure mode, select an encryption type and enter details where © Copyright 2012 TRENDnet.

All Rights Reserved. 15 User's Guide: TRENDnet Network IP Address Mode: Choose a method to assign an IP address to your camera. Fixed IP: If you want to assign a static or fixed IP address to the camera, you may do so here. Your network administrator should be able to provide you with the necessary details to complete this section. Dynamic IP (DHCP): Allows a DHCP server to automatically assign the camera a network address.

PPPoE: If you are using a PPPoE connection, enter your username and password here. Dynamic IP: Enter the Domain Name Server addresses which translate names to IP addresses. Dynamic DNS: The Dynamic DNS feature allows you to host a server (e.g. web server, FTP server) using a domain that you own with a dynamically assigned IP address. Many ISPs assign IP addresses dynamically. The IP address changes each time you connect and disconnect. Using a Dynamic DNS service provider, you can connect to your camera no matter what your IP address is. Enter the details of your dynamic DNS service provider here. HTTP Port: You may configure a second HTTP port that will allow you to connect to the camera using a standard web browser. The port can be set to a number other than the default TCP port 80. A corresponding port must be opened on the router. For example, if the port is changed to 1010, users must type "http://192.168.0.

100:1010" instead of only "http://192.168.0.100". uPnP & uPnP Port Forwarding: Enable these to set your camera as a universal plug and play device on your network. TVIP651 1W / TVIP651WI © Copyright 2012 TRENDnet. All Rights Reserved. 16 User's Guide: TRENDnet User TVIP651 1W / TVIP651WI Time Date/Time Synchronized with Time Server: If you have an internet time server or have specified the IP address of an NTP server designated on your network, you can specify it here. Ensure that you select the correct time zone for the camera also.

Manually set the time for the camera, select this Set Manually: If you prefer to manually set the time. You can check the box Synchronized with Computer Time to set the time on the camera to be the same as the computer you are on. User Access Control: Enable this to allow user accounts to connect to the camera. This option also enables/disables the authentication for direct view. For Java mode: http://camera_ip_address/tvview.htm For ActiveX mode: http://camera_ip_address/tvview.htm (eg. http://192.168.10.

30/tvview.htm to view the camera live image directly) Define Users: You can create new user accounts here. Enter a user name and password and select whether the user is allowed to upload or email an image from the camera. Delete User: Select a user from the drop down menu and click the Delete button to remove a user account from the camera. Motion Detection: Select whether to Enable or Disable motion detection. This will allow your camera to perform different functions when activity has been detected in the parts of the screen that you specify. Sensitivity: Set a percentage level to determine how sensitive the camera is to a percentage level to determine how sensitive the camera is to activity. © Copyright 2012 TRENDnet. All Rights Reserved. 17 User's Guide: TRENDnet TVIP651 1W / TVIP651WI User Name: The user name of the FTP account.

Password: The password for the user account on the FTP. Directory Path: The path you want the files to be uploaded to on the FTP. Passive Mode: If the camera is behind a firewall, you might wish to enable Passive mode to allow the camera to upload the pictures. Time Schedule: Check Enable upload image to FTP server to enable the Upload function. Up to 1024 pictures can be configured. Picture number 1025 to number 1. © Copyright 2012 TRENDnet. All Rights Reserved. Always: Selecting this option will allow snapshots to be emailed when you click Save. Schedule: Selecting this option allows you to configure when you want the snapshots to be emailed.



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o Motion Detection: Selecting this option sets the camera to email images upon detection of motion. o Manual Operation: Selecting this option means the user is responsible for taking a snapshot from the camera to email. © Copyright 2 2012 TRENDnet. All Rights Reserved. 19 net User's Guide TRENDn Day/Night Mode (for TVIP651WI) TVIP651 1W / TVIP651WI This section lets you configure the Day/Night vision modes on the IP camera.

Auto: The camera automatically detects the level of light and selects night vision or normal mode. Manual: Night mode can be selected on the video ActiveX and Java tabs. Always Day Mode: Day mode is always selected. Always Night Mode: Night mode is always selected. This option is best used in areas of low lighting.

Day Mode Schedule: using the time tabs 00:00 ~ 00:00, it is possible to select times for normal mode. Times outside this will be in night mode. The times need to be entered in a 24-hour format. For example, 08:00 ~ 18:30. © Copyright 2 2012 TRENDnet. All Rights Reserved. 20 net User's Guide TRENDn TVIP651 1W / TVIP651WI Tools FTP Server Test: To set up the FTP Server in the configuration section, you can use this. When you have screen to test that the FTP Server settings are correct. Pressing the Test button will make a connection to the FTP Server and upload a file called test_data_time.jpg to the FTP. If the file is not there, you should check that you have entered the FTP details correctly in the configuration section.

start Res If you should need to restart the IP camera, you can do this from this screen. Clicking Yes will initiate a reboot sequence on the camera. When you attempt to connect to the camera you will lose your connection to it. Wait 1 minute before attempting to reconnect to the camera so that it has time to go through its boot sequence. Res Starting the camera configuration settings you have entered. It will retain the configuration. When you have set up an email account in the configuration section, you can use this screen to test that the email settings are correct. Pressing the Test button will make it send a test email to the address specified in the configuration section. If you do not receive the test email, you should check that you have entered the email details correctly in the configuration section. © Copyright 2 2012 TRENDnet. All Rights Reserved.

21 net User's Guide TRENDn Factory Reset If you should need to restore the camera to the factory settings, you can do it from this screen. Clicking Yes will initiate a reboot sequence on the camera. When the camera restarts, you will lose your connection to it. The username and password will also both be set back to the default admin. Wait 1 minute before attempting to reconnect to the camera so that it has time to go through its boot up sequence.

Note: Factory reset will erase the current configuration settings on the camera. You should backup the settings first if you wish to keep them. See the Backup and Restore section for more information. TVIP651 1W / TVIP651WI Backup and Restore When you have set up the camera and you are satisfied with the settings, you can backup the settings to a file for future reference. If you should change the settings and click the Revert button, you can do so on this page.

To backup previous settings Save. To configuration, click Backup and select a location to save the file, then choose Save, click Browse and locate the backup restore settings from a configuration file on your configuration file on your hard drive then click OK. Click Restore to complete the process. Firmware

Upgrade Click the Browse button and locate the firmware file you saved on your computer and choose Open. When you are ready, click the Upgrade button to begin the upgrade process. Note: Upgrading the firmware is a sensitive process. Be sure that you have the correct model of camera and do not disconnect the power during the upgrade process. © Copyright 2 2012 TRENDnet. All Rights Reserved. 22 net User's Guide TRENDn TVIP651 1W / TVIP651WI How to setup/access the camera remotely You can either setup the Dynamic DNS connection via camera itself or your home router.

An account from any of the listed DDNS providers is required prior to this operation. Configure DDNS on your Camera 1. Go to Camera's DDNS Setting page, click Enable to activate the feature. Then select a DDNS provider from the list. 2. Enter your DDNS's Host Name, User Name and Password. 5. Go to Virtual Server* section and create a new entry. . Enable: Click Enable Name: Enter the application name (eg.

CameraName) TCP Protocol: Select Private Port: The HTTP port that you assign on your Camera. Public Port: The port used on remote side to access to your Camera. LAN Server: The local IP address of your Camera. 3. In the Port Number section, assign an HTTP port of the camera.

The default HTTP Port on the camera is 80. The example shows above is using port number 9000. Open another web browser and go to your Router's Web Configuration page. (In the example, TRENDnet's TEW651BR Wireless Router is used) © Copyright 2 2012 TRENDnet. All Rights Reserved.

23 4. net User's Guide TRENDn Then click Add to add the application. Refer to your manual for detail Virtual Server setting. * Please refer to your router manual for Port Forwarding or Special Applications for this Some function. The setup steps should be very similar. TVIP651 1W / TVIP651WI 2.

3. Open another web browser and enter your DDNS domain and camera's port number. http://yourDomainName:PortNumber Login to your router's web configuration page. Find the Dynamic DNS configuration section.

6. 7. Camera's login page will appear. Go to Camera's DDNS Port Number section, assign a HTTP port for your camera and click Apply. 4. Enable DDNS, fill out the following information and then click Apply. Configure DDNS on your router 1. © Copyright 2 2012 TRENDnet. All Rights Reserved. 24 net User's Guide TRENDn http://yourDomainName:PortNumber TVIP651 1W / TVIP651WI 7.



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5. Go to the Virtual Server* section and create a new entry. Enable: Click Enable Name: Enter the application name (eg. Camera Name) Protocol: Select TCP Protocol Private Port: The HTTP port that you assign on your Camera. Public Port: The port used on remote side to access to your Camera. LAN Server: The local IP address of your Camera. The camera login page will appear. Click Add to add the application. Refer to the user's manual for detail Virtual Server setting. * Please refer to your router for Port Forwarding or Special Applications for this function.

The setup steps should be very similar. © Copyright 2012 TRENDnet. All Rights Reserved. 25 Open another web browser and enter your DDNS domain and camera's port number. net User's Guide TRENDnet Dimension Weight Sensor: 1/5" CMOS Sensor Board Lens Focal Length: 4mm F/No: 1.5 Minimum illumination: 1 lux Focus Depth: 20 cm ~ infinity View: Horizontal: 38.0 degrees Vertical: 28.7 degrees Diagonal: 46.5 degrees Digital Zoom: 4x Audio Built-in omnidirectional microphone Sensitivity: 38dB +/- 3dB (5 meters max).

Frequency: 100~20000Hz S/N: >60dB B Format: PCM Pan & Tilt Pan: 170° ~ +170° Tilt: up 90° and down 25° AutoPatrol preset positions: 24 4 Hardware Network LED WPS Button Reset Privacy Button Power Consumption Power IEEE 802.3u 10/100Mbps AutoMDIX Fast Ethernet Power, Link/Act Push to enable WPS Reset to factory default Privacy mode on/off Max. 6.12 W Watts Input: 100~240V, 50/60Hz 0.5A Security Wireless Standard Frequency Antenna Data Rate Network Protocols To Run Software SecurView Software To Run software Humidity Certifications Requirement Management Interface Internet Explorer 7.0 or higher Firefox 3.5 or higher Safari 4.0 or higher Temperature TVIP651 1W / TVIP651WI Output: 12V, 1.25A external power adapter 112 x 110 x 130 mm (4.4 x 4.4 x 5.1 in.) 485 g (1.1 lb) Operating: 0C ~ 40C (32F ~ 104F) Storage: 25C ~ 70C (77F ~ 158F) Max. 90% (noncondensing) CE, FCC Technical Specifications TVIP651WI Camera General Windows 7 (32/64bit), Vista (32/64bit), XP (32/64bit) Windows Server 2000, 2008 Windows 7 (32/64bit), Vista (32/64bit), XP (32/64bit) Channel: supports up to 32 cameras Record/Playback/Motion Detection/Audio IPv4, ARP, TCP, UDP, ICMP MP TP Client DHCP Client, NTP Client, DNS Client, DDNS Client, SMTP Client, FTP HTTP PPPoE UPnP IEEE 802.11b, IEEE 802.11g, and IEEE 802.11n n 2.4 ~ 2.497 GHz ISM band 1 x detachable 2dBi dipole antennas (Reverse SMA connector) 802.11b: up to 11Mbps 802.11g: up to 54Mbps 802.11n: up to 150Mbps 64/128bit WEP, WPA/WPA2PSK © Copyright 2011 TRENDnet. All Rights Reserved. 26 net User's Guide TRENDnet Output Power 802.11b: 18.8dBm (typical) 802.11g: 15.5dBm (typical) 802.11n: 15.5dBm (typical) TVIP651 1W / TVIP651WI Minimum illumination: 0.0 lux (IR on) Focus Depth: 20 cm ~ infinity View: Horizontal: 38.0 degrees Vertical: 28.7 degrees Diagonal: 46.5 degrees Digital Zoom: 4x Receiving Sensitivity 802.11b: 8.85dBm at 11Mbps 802.11g: 7.76dBm at 54Mbps 802.11n: 6.65dBm at 150Mbps 1~11 (FCC), 1~13(ETSI) Channels Management Accounts Remote Login Backup / Restore Settings Image Video Setting Audio Up to 64 user accounts Remote management supported Save/retrieve configuration files Built-in omnidirectional microphone Sensitivity: 38dB +/- 3dB (5 meters max.) Frequency: 100~20000Hz S/N: >60dB Format: PCM Pan & Tilt Brightness, contrast, saturation, flip, mirror (horizontal/vertical) Encoding: MJPEG Resolution: 640 x 480 (20 fps), 320 x 240 (30 fps), 160 x 120 Max frame rate: VGA@20fps, QVGA@30fps, QQVGA@30fps JPEG quality: Very Low, Low, Medium, High, Very High Pan: 170° ~ +170° Tilt: up 90° and down 25° AutoPatrol preset positions: 24 Day/Night Hardware Network LED WPS Button Reset Button Privacy Button Power Consumption Power Dimension Built-in ICR Night vision (IR) supports up to 7.5 meters Recording Snapshot event based (motion detection) and scheduled Trigger event: motion detection or digital input signal Action: send alert email and/or upload to FTP Real time snapshot IEEE 802.3u 10/100Mbps AutoMDIX Fast Ethernet Power, Link/Act Push to enable WPS Reset to factory default Privacy mode on/off Max. 7.2 Watts Input: 100~240V, 50/60Hz 0.5A Output: 12V, 1.25A external power adapter 112 x 110 x 130 mm (4.4 x 4.4 x 5.1 in.) 485 g (1.1 lbs.) Operating: 0C ~ 40C (32F ~ 104F) Storage: 25C ~ 70C (77F ~ 158F) Port Settings Time HTTP port: 80 (default) Synchronize with NTP server or set time / date manually TVIP651WI Camera General Sensor: 1/5" CMOS Sensor Board Lens Focal Length: 4mm F/No: 1.5

Weight Temperature © Copyright 2011 TRENDnet. All Rights Reserved. 27 net User's Guide TRENDnet Humidity Certifications Requirement Management Interface Internet Explorer 7.0 or higher Firefox 3.5 or higher Safari 4.0 or higher Max. 90% (noncondensing) CE, FCC TVIP651 1W / TVIP651WI Channels Management Accounts Remote Login Backup // Restore Settings Image Video Setting Brightness, contrast, saturation, flip, mirror (horizontal/vertical) Encoding: MJPEG Resolution: 640 x 480 (20 fps), 320 x 240 (30 fps), 160 x 120 Max frame rate: VGA@20fps, QVGA@30fps, QQVGA@30fps JPEG quality: Very Low, Low, Medium, High, Very High Up to 64 user accounts Remote management supported Save/retrieve configuration files 1~11 (FCC), 1~13(ETSI) To Run software To Run Software SecurView Software Network Protocols Windows 7 (32/64bit), Vista (32/64bit), XP (32/64 bit) Windows Server 2000, 2008 Windows 7 (32/64bit), Vista (32/64bit), XP (32/64 bit) Channel: supports up to 32 cameras Record/Playback/Motion Detection/Audio IPv4, ARP, TCP, UDP, ICMP DHCP Client, NTP Client, DNS Client, DDNS Client, SMTP Client, FTP Client HTTP PPPoE UPnP Recording Snapshot event based (motion detection) and scheduled Trigger event: motion detection Action: send alert email and/or upload to FTP Real time snapshot Port Settings Time HTTP port: 80 (default) Synchronize with NTP server or set time / date manually Wireless Standard Frequency Antenna Data Rate IEEE 802.11b: 18.8dBm (typical) 802.11g: 15.5dBm (typical) 802.11n: 15.5dBm (typical) TVIP651 1W / TVIP651WI Minimum illumination: 0.0 lux (IR on) Focus Depth: 20 cm ~ infinity View: Horizontal: 38.0 degrees Vertical: 28.7 degrees Diagonal: 46.5 degrees Digital Zoom: 4x Receiving Sensitivity 802.11b: 8.85dBm at 11Mbps 802.11g: 7.76dBm at 54Mbps 802.11n: 6.65dBm at 150Mbps 1~11 (FCC), 1~13(ETSI) Channels Management Accounts Remote Login Backup / Restore Settings Image Video Setting Audio Up to 64 user accounts Remote management supported Save/retrieve configuration files Built-in omnidirectional microphone Sensitivity: 38dB +/- 3dB (5 meters max.) Frequency: 100~20000Hz S/N: >60dB Format: PCM Pan & Tilt Brightness, contrast, saturation, flip, mirror (horizontal/vertical) Encoding: MJPEG Resolution: 640 x 480 (20 fps), 320 x 240 (30 fps), 160 x 120 Max frame rate: VGA@20fps, QVGA@30fps, QQVGA@30fps JPEG quality: Very Low, Low, Medium, High, Very High Pan: 170° ~ +170° Tilt: up 90° and down 25° AutoPatrol preset positions: 24 Day/Night Hardware Network LED WPS Button Reset Button Privacy Button Power Consumption Power Dimension Built-in ICR Night vision (IR) supports up to 7.5 meters Recording Snapshot event based (motion detection) and scheduled Trigger event: motion detection or digital input signal Action: send alert email and/or upload to FTP Real time snapshot IEEE 802.3u 10/100Mbps AutoMDIX Fast Ethernet Power, Link/Act Push to enable WPS Reset to factory default Privacy mode on/off Max. 7.2 Watts Input: 100~240V, 50/60Hz 0.5A Output: 12V, 1.25A external power adapter 112 x 110 x 130 mm (4.4 x 4.4 x 5.1 in.) 485 g (1.1 lbs.) Operating: 0C ~ 40C (32F ~ 104F) Storage: 25C ~ 70C (77F ~ 158F) Port Settings Time HTTP port: 80 (default) Synchronize with NTP server or set time / date manually TVIP651WI Camera General Sensor: 1/5" CMOS Sensor Board Lens Focal Length: 4mm F/No: 1.5



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11 1b, IEEE 802.11g, and IEEE 802.11n 2.

4 ~ 2.497 GHz ISM band 1 x detachable 2dBi dipole antenna (ReverseSMA connector) 802.11b: up to 11Mbps 802.11g: up to 54Mbps 802.11n: up to 150Mbps Security Output Power 64/128bit WEP, WPA/WPA2PSK 802.11b: 18 dBm (typical) 802.11g: 15 dBm (typical) 802.11n: 15 dBm (typical) Receiving Sensitivity 802.11b: 88.5dBm at 11Mbps 802.11g: 77.6dBm at 54Mbps 802.11n: 66.5dBm at 150Mbps © Copyright 2011 TRENDnet. All Rights Reserved. 28 net User's Guide TRENDnet TVIP651 1W / TVIP651WI to sunlight or hallogen lights. Reposition the Network Camera into a more shaded area immediately as prolonged exposure to bright lights will damage the CMOS sensor r. 5.

The camera images are 'noisy' Often if the camera is in a lowlight environment, the images can contain a lot of noise. Try enabling Night mode and see if that improves the image quality. Otherwise, try to use the camera in a location where there is a bit more light. 6. The camera images are of poor quality.

display properties Make sure that your computer's display is set to at least 16-bit color. Using 16-bit or 256 colors on your computer will produce dithering artifacts in the image, making the image look as if it is of poor quality. Try also adjusting the brightness, contrast, saturation, light frequency and anti-flicker controls on the Video Settings under the Configuration menu. You may also consider adjusting the resolution of the camera image to improve the image. 7. Video can't be viewed through the web browser interface. ActiveX might be disabled. If you are viewing the images from Internet Explorer X has been enabled in the Internet Options menu. You may also make sure ActiveX needs to change the security settings on your browser to allow the ActiveX plug-in to be installed. If you are using Internet Explorer with a version number lower than 6, then you will need to upgrade your Web browser software in order to view the streaming video transmitted by the Network Camera.

Try also viewing the video using Java. Ensure that you have the latest version of Java installed. Go to www.java.com for more information before you do. G Troubles shooting 1. The Power LED and Ethernet Activity LED do not light up. The power supply or camera might be faulty. Check that the connection to both the power source and the terminal on the back of the camera are secure and that you are using the provided power supply. If the camera is otherwise functioning correctly, the LEDs might have been disabled in the configuration. See the section of this guide on Configuration of System settings. 2. The camera can't be accessed or access is slow There might be a problem with the network cable. To confirm that the cables are working, ping the address of a known device on the network.

If the cabling is OK and your network is reachable, you should receive a reply similar to the following (...bytes = 32 time = 2 ms). follow Another possible problem may be that the network device such as a hub or switch utilized by the Network Camera is not functioning properly.

Please switch confirm the power for the devices are well connected and functioning properly. 3. The camera can be accessed locally but not remotely This might be caused by a firewall. Check the Internet firewall with your system administrator. The firewall may need to have some settings changed in order for the Network Camera to be accessible outside your local LAN. For more information, please refer to the section about installing your camera behind a router. Make sure that the Network Camera isn't conflicting with any Web server you may have running on your network. The default router setting might be a possible reason. Check that the configuration of the router settings allow the Network Camera to be accessed outside your local LAN. 4.

White vertical lines appear on the image from the camera It could be that the CMOS sensor (a square panel situated behind the lens that measures the light signals and changes it into a digital format so your computer can present it into an image that you are familiar with) has become overloaded when it has been exposed to bright lights such as direct exposure © Copyright 2011 TRENDnet. All Rights Reserved. 29 net User's Guide TRENDnet Federal Communication Commission Interference Statement This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide protection against harmful interference in a residential installation. This device may cause harmful interference, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures: Reorient or relocate the receiving antenna. Increase the separation between the equipment and receiver. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. IEEE 802.11b or 802.

11g operation of this product in the U.S.A. is firmware limited to a maximum of 11 channels. IMPORTANT NOTE: FCC Radiation Exposure Statement: This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with a minimum distance of 20cm between the radiator & your body. This transmitter must not be collocated or operating in conjunction with any other antenna or transmitter.



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Europe EU D Declaration of Conformity This device complies with the essential requirements of the R&TTE Directive 1999/5/EC. The following test methods have been applied in order to presume conformity with the essential requirements of the R&TTE Directive 1999/5/EC: © Copyright 2011 TRENDnet. All Rights Reserved. 501: 2006 +A11:20 009 EN 6095 EN 6231 11: 2008 TVIP651 1W / TVIP651WI hology Equipment Safety of Information Technology Assessment of electronic and electrical equipment related to human exposure e restrictions for electromag 300 GHz) gnetic fields (0 Hz) (IEC 623 311:2007 (Modified d)) EN 300 328 V1.7.1: (2006 10) Electromagnetic compatibility and Radi spectrum Matters (ERM); Wideband W Transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band um chniques; Harmonized EN covering essential e and using spread spectrum modulation tec E Directive requirements under article 3.2 of the R&TTE 0804) EN 301 4891 V1.8.

Part 1: (200 Electromagnetic compatibility and Radio Spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio e equipment and services; Part 1: Common technical requirements EN 301 48917 V2.1.1 (200 0905) Magnetic Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio e equipment and services; Part 17: Specific conditions for 2,4 GHz wideband transmission systems or use in This device is a 2.4 GHz wideband transmission system (transceiver), intended for restrictive all EU member states and EFTA countries, except in France a Italy where re and use applies. In Italy the end user should apply for a license at the national spectrum authority in order to obtain authorization to use the device for setting up outdoor radio links and/or for supplying public access to telecommunications and/or network services. This device may not be used for setting up outdoor radio links in France and in some parks her d areas th RF output power may be limited to 10 mW EIRP in the frequency range of 2454 2483.5 MHz. For detailed information on the end user should contact the national spectrum authority in France net User's Guide TRENDnet Cesky [Czech] Dansk [Danish] Deutsch h [German] TRENDnet tí ůnto prohlasuje, ze e tento TVIP651W / TVIP651WI je ve shod se základními požadavky a dalšími příslušnými směrnicemi 1999/5 /5/ES. ustanovením Undertegnet de TRENDnet erklærer herved, at følgende udstyr TV TVIP651W // TVIP651WI overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5 /5/EF.

Hiermit erkläre TRENDnet, dass sich das Gerät TV VIP651W / TV IP651WI in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 19 999/5/EG befindet. Käsolevaga a kinnitab TRENDnet et seadme TVIP651W / TVIP651WI vastavast direktiivi 1999/5/EÜ põhinõuetele ja ni imetatud direktiivist tu ulenevatele teistele asjakohastele sätetele. Hereby, TRENDnet, declares that this TVIP651W / TVIP651WI is in compliance with the essential requirements and other relevant provisions of Directive 1999/5 /5/EC. Por medio de la presente TRENDnet declara que el TVIP651W / requisitos esenciales y cualesquiera TVIP651WI cumple con los requisitos exigibles de la Directiva otras disposiciones aplicables o 1999/5/CE. TRENDnet TVIP 651W / TV IP651WI 199 99/5/.

Par la présence TRENDnet déclare que l'appareil TVIP651W / TV IP651WI est conforme aux exigences essentielles et aux autres directives 1999/5/CE. dispositions pertinentes de la Directive 1999/5/CE. Con la presente TRENDnet dichiara che questo TVIP651W / TV IP651WI è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE. Ar so TRENDnet deklaru, ka TV VIP651W / TVIP651WI atbilst Direktīvas 19 999/5/EK būtiskaj prasīb un citiem ar to lietuvai [Lithuanian] TVIP651 1W / TVIP651WI saistītajiem noteikumiem m. Siuo TRENDnet deklaruoja, kad šis TVIP651W / TVIP651WI atitinka esminius reikalavimus ir kitas 1999 9/5/EB Direktyvos nuostatas. Hierbij verklaart TRENDnet dat het toestel TVIP651W / TV IP651WI in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1 1999/5/EG.

Hawn hekk, TRENDnet, jiddekljara li dan TV IP651W / TVIP651 1WI jikkon nforma maltijiet essenzjali u ma p provvedimenti oia ajn relevanti li hemm fidDirrettiva 1999/5/EC C. Aluliro ott, TRENDnet nyila atkozom, hogy a TV VIP651W / TVIP651WI megfelel a vonatkozó alapvető követelményeknek és az 1999 /5/EC irányelv egyéb előírásainak. Niniejszym TRENDnet owiadcza, e TVIP651W / TVIP651WI jest zgodny z zasadniczymi w wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/EC. TRENDnet declara que este TVIP651W / TVIP651WI está de conformidad con los requisitos esenciales e outras disposições da Directiva 1999/5/CE. Direct TRENDnet izjavlja, da je ta TVIP651W / TVIP651WI v skladu z vsebino zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES. TRENDnet týto vyhlasuje, ze TVIP651W / TVIP651WI spa základné požiadavky a vsetky príslušné ustanovenia Smernice 1999/5/ES. TRENDnet vakuuttaa tätä ten että TVIP651W / TVIP651WI tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja oskevien direktiivin muiden ehtojen mukainen. sitä ko WI Härmä edintyggar TRENDnet att denna TVIP651W / TVIP651W står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.

Nederlands [Dutch] Malti M [Maltese] Magyar M [Hungarian] Polski sh [Polish] Português [Portuguese] Sloveno [Slovene] Slovensky [Slovak] Suoimi [Finnish] Svenska [Swedish] Eesti [Estonian] English Español [Spanish] [Greek] Français [French] Italiano [Italian] Latviski [Latvian] © Copyright 2011 TRENDnet. All Rights Reserved.

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