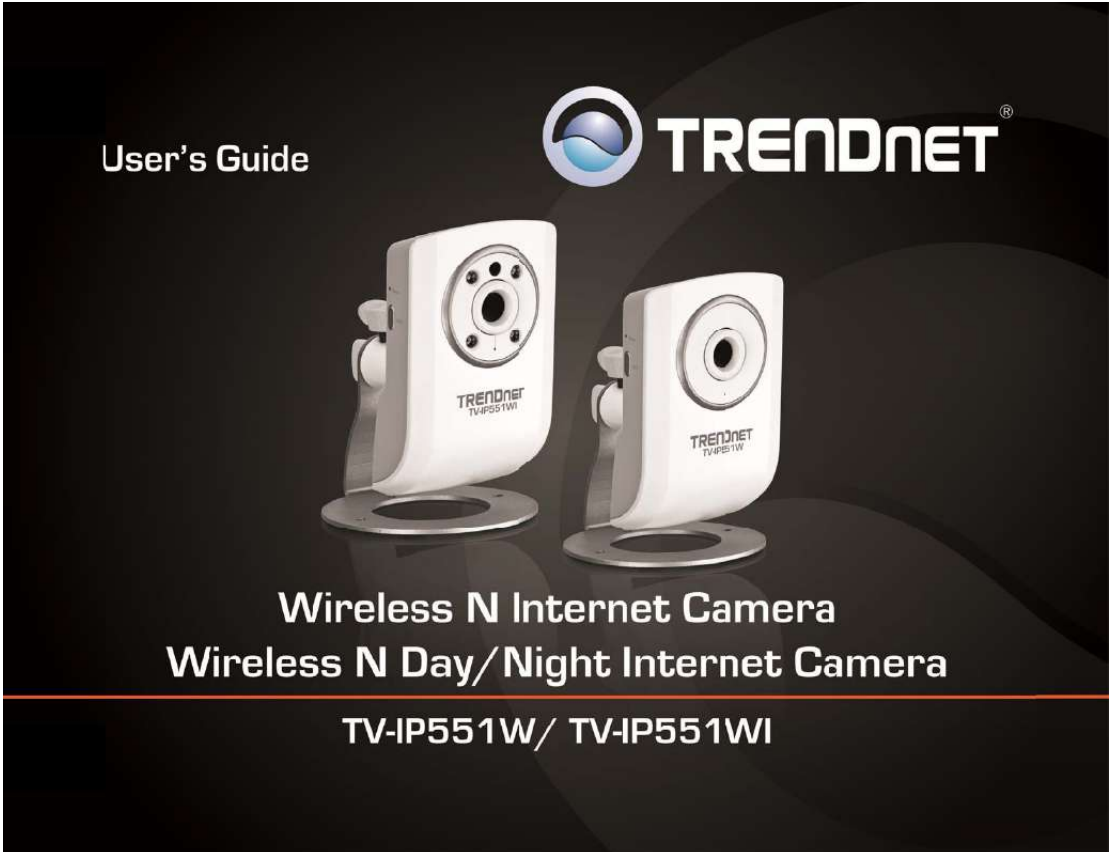




# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for TRENDNET TV-IP551WI. You'll find the answers to all your questions on the TRENDNET TV-IP551WI 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-IP551WI**  
**User guide TRENDNET TV-IP551WI**  
**Operating instructions TRENDNET TV-IP551WI**  
**Instructions for use TRENDNET TV-IP551WI**  
**Instruction manual TRENDNET TV-IP551WI**

The image shows the cover of a user's guide for TRENDNET TV-IP551WI. The cover has a black background with a white and blue TRENDNET logo at the top right. On the left, the text "User's Guide" is written in white. In the center, two white wireless internet cameras are shown, one slightly behind the other. Below the cameras, the text "Wireless N Internet Camera" and "Wireless N Day/Night Internet Camera" is written in white. At the bottom, the model numbers "TV-IP551W/ TV-IP551WI" are listed in white.

**User's Guide**

**TRENDNET®**

**Wireless N Internet Camera**  
**Wireless N Day/Night Internet Camera**

**TV-IP551W/ TV-IP551WI**



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.. Troubleshooting ..

... i net User's Gu uide TRENDn TVIP551 1W / TVIP551WI Product Overview Featu res TVIP55 51W The Wir eless N Internet C Camera, model TV IP551W, transmit ts realtime video over the Internet t. Wireless n techn nology provides unsurpassed wireless coverage and im mproved streami video quality. Add this camera to your wireless n ing network at the touch of a button with WiFi Protecte ed Setup (WPS). Record 640 x 480 (VGA) video at up to 20 frames per secon (fps). Manage up to 32 0 nd u TRENDn cameras with the included com net mplimentary camera management software. Advanced features includ adjustable mot de tion detection reco ording areas, email alerts, led recording sessiions, oneway audio, an adjustable le ens, and four time es digital schedul zoom. A A wall/ceiling mou nting kit is include ed and the camera' 's off white housing blends into mo ost environments.

TV VIP551W TVIP551W WI TVIP55 51WI The Wireless N Day/Nigh Internet Camer model TV IP551WI, transmits realtime ht ra, r Record crisp video in complete darkn ness for distances of up to video over the Internet. R age and eters. Wireless n technology prov vides unsurpassed wireless covera d 7.5 me improve streaming vide quality. Add th camera to your wireless network at the ed eo his touch o of a button with WiiFi Protected Setup (WPS). Record 640 x 480 (VGA) video at up to 20 frames per secon (fps). Manage up to 32 0 nd u net mplimentary camera management software. TRENDn cameras with the included com Advanced features includ adjustable mot de tion detection reco ording areas, email alerts, es digital led recording sessiions, oneway audio, an adjustable le ens, and four time schedul zoom. A A wall/ceiling mou nting kit is include ed and the camera' 's off white housing blends into mo ost environments. Contents Package C In addition to your camera, the p package includes: Muti Language Quick In nstallation Guide CDROM (Utility & User r's Guide) Netw ork cable (1.

5m / 5ft) Powe er adapter (5V DC, 1.2A) e contents are miss sing or damaged, p please contact the r retail store, online If any package retailer, or res seller/distributor th hat the item was purchased. © Copyright 2 2012 TRENDnet. All Rights Reserved. 1 net User's Gu uide TRENDn TVIP551 1W / TVIP551WI Product H Hardware Features ew Rear Panel Vie Front Panel View IR LED Focus ring Microphone e Light Sensor Camera Lens Power/Link LED Power port Ethernet port LAN P hernet cables to your wired network d devices.

Port Connect Eth Powe er Port Connect t the included power adapter from you ur camera to an avaiila ble power outlet. Note e: Use only the adap pter that came wit th your camera. 4 IR LED for night v vision uses. (for TV VIP551WI) IR LED Builtin 4 Light Sensor De etects the light sou urce to turn IR on o or off. n to adjust the focu us of the camera.

Focus ring turn Microphone Bu uiltin microphone for audio can be turn on or off. Power This LED D indicator is solid b blue when your cam mera is powered on. ff, there is no powe er to your camera. Otherwise if this LED indicator is of ata to Link This LED in dicator is blinking orange when ther re is connection/da your camera. © Copyright 2 2012 TRENDnet. All Rights Reserved. 2 net User's Gu uide TRENDn TVIP551 1W / TVIP551WI Side Panel Vie ew Application Diagra am Reset WP PS Reset t Button Use an item such as a pap perclip to push and hold this button fo or 3 sec onds and release t to reset your camera to its factory de efaults. WPS (WiFi Protected S Setup) Push and hold this button fo or 3 seconds to activa ate WPS. The butto on LED is blinking g green when WPS is s activated. © Copyright 2 2012 TRENDnet.

All Rights Reserved. 3 net User's Gu uide TRENDn TVIP551 1W / TVIP551WI WPS Co onnection An alter rnative method of connecting your ca amera to your netw ork is by using W WPS. WPS is a quic ck, simple and secu ure method of adding devices to a ne etwork. If you have a router w which supports WP PS follow the steps s below, otherwise, , please use the wired mode o of setting up the ca mera. 1. Attach the Powe er Supply Installati ion Wired Connec ction 1. Conn ect the Ethernet C Cable If you u intend to use the e network camera as a wired device, connect one end of the included Ethernet cable into the Eth hernet port on the rear panel of th he era and connect the other end to an available port on y your network. If yo ou came prefe er to use the came era on a wireless n network, see below w for instructions o on connecting the power a adapter. 2. Attac ch the Power Supply Attac ch the included pow wer supply to the D DC 5V 1.

2A receptor on the rear panel of the camera and then connect it to a w wall outlet or pow wer strip. A blue LE ED ight up under the lens indicating that t the camera has po ower. will li 2. on on Press the WPS bu utton on your wire eless device then pr ress the WPS butto to the camera. © Copyright 2 2012 TRENDnet. All Rights Reserved. 4 net User's Gu uide TRENDn TVIP551 1W / TVIP551WI 2. Connect an RJ45 5 cable from a swi itch/router to the Ethernet port on t the back of the camera an nd connect the AC C power adapter to o the camera. Click k Next to proceed. Starting the Setup W Wizard Insert the included CDROM into o your CD/DVD driv ve.

The Install Wiza rd program will ru un automatically. Note: If the Install Wizard does not run, you may have autorun disabled on you ur t nd he machine.



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In this case, browse to the CD drive and run InstallWizard.exe to begin the installation wizard. Begin by selecting Setup Wizard and follow the onscreen steps 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 not too far from the power and network and click on the network for your camera. When the installation of the Setup Wizard is complete, run the Setup Wizard: 1. Click Start > Program > TRENDnet > SetupWizard > SetupWizard.

When the TRENDnet Setup Wizard appears. © Copyright 2012 TRENDnet. All Rights Reserved. 5. Enter the User's Guide for TRENDnet. 4. Login to your camera by entering the ID and Password. By default, both the ID and Password are set to admin. Click Next to continue. 6. TVIP551 1W / TVIP551WI It is strongly recommended that you change your password to secure the camera from being accessed by others. Check the Change Password box and enter the new password in both password fields to confirm the new password.

Click Next to continue. 5. Enter a name for the camera in the Camera Name field. The name will be used to identify your camera on the network.

Enter the correct time for the camera in 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 adding Video View Click VIEW VIDEO | ACTIVEVEX or VIEW VIDEO O | JAVA to begin viewing live video from your camera. VIEW VIDEO | ACTIVEVEX 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 | ACTIVEVEX link.

Mac users must use the Java mode to view video. The homepage for the TVIP551W or TVIP551WI appears. © Copyright 2012 TRENDnet. All Rights Reserved. 10. Enter the User's Guide for 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>) TVIP551 1W / TVIP551WI Camera Settings View to view camera settings: 1. 2. 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. Enter the User's Guide for TRENDnet System This screen shows the Camera Name, Location, Model, Firmware Version, MAC Address, IP Address, Ethernet Link Status, Speed and Duplex type. Audio TVIP551 1W / TVIP551WI 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. Enter the User's Guide for TRENDnet Network This screen shows various network statistics related to your camera including IP Address, Subnet Mask and Default Gateway. TVIP551 1W / TVIP551WI Configuring Camera Settings The TVIP551W 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 see how 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: T This is the name used to identify your camera on your network. n enter a description of the place where the camera is. Location: You can assign. You can change the administrator user name and password. Admin: In this field (max. password length is 8 characters) if the setting is 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. Enter the User's Guide for TRENDnet TVIP551 1W / TVIP551WI Mirror: Choose whether to mirror the image horizontally or vertically. AntiFlicker: Check the box to enable antiflicker. 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. 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.

Light Frequency: Select the correct frequency (50Hz/60Hz) to reduce the amount of flicker. © Copyright 2012 TRENDnet. All Rights Reserved. 14. Audio Audio: Choose whether to Enable or Disable the camera audio feed. Volume: Select the volume percentage level.

14. Enter the User's Guide for TRENDnet TVIP551 1W / TVIP551WI Hoc mode, you can 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 of all wireless devices.



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**AdHoc** is a wireless connection used without an access point, where your TVIP551W or TVIP551WI is directly connected to your PC. This is done using the onboard wireless adapter on the TVIP551W or TVIP551WI 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 network within range and view the 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 applicable as you have specified on the access point. **© Copyright 2012 TRENDnet. All Rights Reserved. 15 net User's Guide**  
**TRENDnet Network IP Address Mode:** Choose a method to assign an IP address to your camera. **o 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. **o Dynamic IP (DHCP)** Allows a DHCP server to automatically assign the camera a network address. **o 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. we serve FTP or Game server, server) using a domain that you own with a dynamically assigned IP address. Many ISPs assign IP addresses dynamically i.e. 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. **TVIP551W / TVIP551WI User Access Control:** Enable this to allow user accounts to connect to the camera.

camera. This option also enable/disable the authentication for direct view. **For Java mode:** http://camera\_ip\_address/tvview.htm **For ActiveX mode:** http://camera\_ip\_address/tvvieww.htm (eg. http://192.168.10.30/tvview.htm to view the camera live image directly). **me and Define Users:** You can create new user accounts here. Enter a user name password and select whether the user is allowed to upload or email an image from the camera.

**© Copyright 2012 TRENDnet. All Rights Reserved. 16 net User's Guide TRENDnet TVIP551W / TVIP551WI** **Delete User:** Select a user from the drop down menu and click the Delete button to remove a user account from the camera. **Detection Motion 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. **mage shown on this screen, you can click** **Detection Areas:** From the live image on blocks of the grid shown to indicate which parts of the screen you would like to monitor for motion. **Date/Time Synchronized with Time Server:** If you have an internet time server or have an NTP server designated on your network, you can specify the IP address of it here.

Ensure that you select the correct time zone for the camera also.

**Set Manually:** If you prefer to manually set the time for the camera, select this mode. 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. **© Copyright 2012 TRENDnet. All Rights Reserved. 17 net User's Guide TRENDnet TVIP551W / TVIP551WI** **Passive Mode:** If the camera is behind a firewall, you might wish to enable the Passive mode to allow the camera to upload the pictures. **Time Schedule:** Check Enable upload image to FTP server to enable the Upload function. **o Always:** Selecting this option allows snapshots to be uploaded to your FTP server as soon as you click Save. **o Schedule:** Selecting this option allows you to configure specific times when you want the snapshots to be uploaded to your FTP server. **o Motion Detection:** Selecting this option sets the camera to upload sets of images upon detection of motion. **o Manual Operation:** Selecting this option means the user is responsible for taking a snapshot from the camera to upload.

**Video Frequency:** Users can select in frames per second (1, 2, 3 or auto, in auto this could go to 44). The user can also select a duration for each frame from 1 to 65535 seconds. @@@@ Up to 1024 pictures can be configured. **Picture number** 1025 to number 1. @@@@ **User Name:**

The user name of the FTP account. **Password:** The password for the user account on the FTP. @@@@ **© Copyright 2012 TRENDnet. All Rights Reserved.**

@@@@ If the file is not there, you should check that you have entered the FTP details correctly in the configuration section. **Email Test** Set this When you have set up an email account in the configuration section, you can use the screen to test that the Email settings are correct. Pressing the Test button will make the camera send a test email to the address specified in the configuration section. If not receive the test email, you should check that you have entered the email details correctly in the configuration section.



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All Rights Reserved. 20 net User's Guide TRENDnet TVIP551 1W / TVIP551WI Factory y Reset Restart If you should need to rest tart the IP camera, you can do thi from this screen. is Clicking Y will initiate a reboot sequence on the camera. When you restart th Yes r o he camera y will lose your connection to it.

Wait 1 minute be you efore attempting to t reconnect to the camera so that it has time to go through its boot up sequenc ce.

t Restarting g the camera will retain the configura tion settings you h have entered. from this If you should need to rest tore the camera to o the factory settin ngs, you can do it f sequence on the c camera. When the camera screen. Clicking Yes will iinitiate a reboot s also both s, you will lose you ur connection to it t. The username an nd password will a restarts ct to the be set b back to the default t admin. Wait 1 m minute before attem mpting to reconnect camera so that it has time e to go through its boot up sequence. Note: F Factory reset will erase the current configuration set ttings on the camera. You should back up the settin ngs first if you wish h to keep them. Se ee the Backup and Restore tion. section for more informat © Copyright 2 2012 TRENDnet.

All Rights Reserved. 21 net User's Guide TRENDnet TVIP551 1W / TVIP551WI Firmware e Upgrade Click the B Browse button and d locate the firmw are file you saved o on your computer and choose Open. When yo ou are ready, click t the Upgrade button to begin the firmware upgrade. grading the firmw are is a sensitive pr ocess. Be sure that you have the Note: Upg correct fir rmware for your m model of camera an nd do not disconnect the power durin ng the upgra ade process. Backup and Restore When y have set up t camera and y are satisfied w you the you with the settings, you can backup the settings to a f file for future reference. If you should change the settings and ckup the o revert back to the s, you can do so on this page. To bac want to e previous settings Save.

To configuration, click Backu up and select a loc cation to save the file, then choose S a ile, click Browse and locate the backup restore settings from a configuration fi ur configuration file on you hard drive then click OK. Click Restore to complete the s.

process © Copyright 2 2012 TRENDnet. All Rights Reserved. 22 net User's Guide TRENDnet 2. TVIP551 1W / TVIP551WI Enter your DDNS S's the Host Name, User Name and Pa assword. 3.

In the Port Numb ber section, assign an HTTP port of th he camera. The default HTTP Port on the e camera is 80. The e example shows ab above is using port n number 9000. Open another we eb browser and go o to your Router's W Web Configuration page. (In the example, TRENDnet's TEW6 651BR Wireless N r router is used) 4.

How to s setup/acces ss the camera remotely y You can either r setup the Dynamic DNS connection via camera itself o or your home router. An acc count from any of t the listed DDNS pro oviders is required prior to this operation. Configure DDN NS on your Camera 1. Go to o Camera's DDNS S Setting page, click E Enable to activate the feature. Then selec ct a DDNS provider from the list. © Copyright 2 2012 TRENDnet. All Rights Reserved. 23 net User's Guide TRENDnet 5. Go to o Virtual Server\* se ection and create a a new entry. Enab ble: Click Enable Name: Enter the application name (eg.

Ca ameraName)ocol: Select TCP Proto Priva ate Port: The HTTP port that you assig gn on your Camera a. Publi ic Port: The port us sed on remote side e to access to your Camera. LAN S Server: The local IP P address of your C Camera. TVIP551 1W / TVIP551WI 7. Camera's login pa age will appear. Go to Camera's D DDNS Ports Num mber section, assig gn a HTTP port for y your camera and click k Apply. Configu router ure DDNS on your r I. Then click Add to add the application. outer's user's manual for detail Virtu ual Server setting. \* Please refer to your ro e router might use Port Forwarding o or Special applicati ions for this Some funct ion.

The setup ste eps should be very similar. 2. Login to your rou uter's web configur ation page. 6. Open n another web brow wser and enter you ur DDNS domain an nd camera's port numb ber.

http://yourDomainNam me:PortNumber © Copyright 2 2012 TRENDnet. All Rights Reserved. 24 net User's Guide TRENDnet 3. Find t the Dynamic DNS configuration secti ion. TVIP551 1W / TVIP551WI Private Port: The e HTTP port that yo ou assign on your C Camera.

Public Port: The port used on remo ote side to access to your Camera. f your Camera. LAN Server: The local IP address of 4. Enable DDNS, fill out th he following inform ation and then clic ck Apply. 6. Click Add to add the application. r's manual for detail Virtual Server se etting. \* Please refer to your router's user ght use Port Forwarding or Special ap plications for this Some router mig tup steps should be very similar. function. The set Open another we eb browser and en nter your DDNS dom main and camera's port number.

ainName:PortNumber http://yourDoma 7. 5. Go to o Virtual Server\* se ection and create a a new entry. Enab ble: Click Enable Name: Enter the application name (eg. Ca amera Name)ocol: Select TCP Proto The camera login n page will appear. © Copyright 2 2012 TRENDnet. All Rights Reserved. 25 net User's Guide TRENDnet Tem mperature TVIP551 1W / TVIP551WI Ope erating: 0C ~ 40C (3 32F ~ 104F) Sto orage: 15C ~ 60C (5 5F ~ 140F) Hum midity Ma x.

95% (noncondens sing) CE, FCC Technica al Specifications TVIP551W W Camera General Sensor: 1/5 5" CMOS Sensor Board Lens s Focal Leng gth: 4mm F/No: 1.5 Minimum illumination: 1 lux Focus Depth: 20 cm ~ infinity View: Horizontal: 38 degrees Vert tical: 28.

7 degrees Diag gonal: 46.5 degrees Digital Zoo om: 4x Audio Builtin om midirectional microphone Sensitivity: 38dB +/- 3dB (5 me eters max.) Frequency y: 100~20000Hz S/N: >60dB Format: PC CM Hardware Network LED WPS Butto on Reset Butt ton Power tion Consumpt Power IEEE 802.3u 10/100Mbps Auto MDIX Fast Ethernet Power, Link/Act Enable WP PS connection Reset to fa actory default Max. 5 wat tts Input: 100~240V 50/60Hz 0.

2A A Output: 5V V, 1.2A external powe er adapter Dimension n Weight 75 x 115 x 30 mm (2.95 x 4.5 x 1.2 in.

) 110 g (3.8 oz) Cer rtifications Req uirement Ma anagement Inte erface ernet Explorer 7.



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0 or r higher Inte Fire efox 3.5 or above ari 4.0 or above Safa IPv4 4, ARP, TCP, UDP, ICM MP DHC CP Client, NTP Client t, DNS Client, DDNS C Client, SMTP Client, F FTP Client HTT TP PPP PoE UPn nP Net work Pro otocols Wir reless Sta andard Fre eQUENCY Mo odulation Ant tenna Dat te Rate IEEE E 802.11b, IEEE 802.11g and IEEE 802.11n 2.4 ~ 2.497 GHz ISM ban nd DQ QPSK, DBPSK, DSSS an nd CCK Bui llin 2dB antenna 802.2.

11b: up to 11Mbps 802.11g: up to 54Mbps 802.11n: up to 150Mbps Sec curity Out tput Power 64/128bit WEP, WPA/W WPA2PSK 802.11b: 17dBm (typica l) 802.11g: 14.5dBm (typical) 802.11n: 14.5dBm (typical) Rec ceiving Sen nsitivity Cha annels Ma anagement 802.11b: 89dBm at 11M Mbps 802.11g: 74dBm at 54M Mbps 802.2.

11n: 71dBm at 150 0Mbps 1~11 (FCC), 1~13(ETSI) © Copyright 2 2011 TRENDnet. All Rights Reserved. 26 net User's Gu uide TRENDn Accounts Remote Lo ogin Backup / Restore Settings Image Video Sett ting Brightness s, contrast, saturation n, , flip, mirror (horiz ontal/vertical) Encoding: MJPEG Re esolution: 640 x 480 (20 fps), 320 x 240 (3 30 fps), 160 x 120 Max frame rate: VGA@ M @20fps, QVGA@30fp ps, QQVGA@30fps JP PEG quality: Very Low w, Low, Medium, High, Very High Up to 64 user accounts Remote management supporte ed Save/retrie eve configuration file es TVIP551 1W / TVIP551WI S/N : >60dB Form mat: PCM Freq uency: 100~20000H Hz Day y/Night Har rdware Net twork LED D WP PS Button Res set Button Pow wer Consumption Pow wer Dim mension We eight Tem mperature Builltin ICR Nigh ht vision (IR) up to 7. .5 meters IEEE E 802.

3u 10/100Mbps AutoMDIX Fast Ethernet Pow wer, Link/Act Ena able WPS connection Rese et to factory default Max x. 5 Watts Inpu ut: 100~240V 50/60Hz 0.2A Out tput: 5V, 1.2A external power adapter 75 x x 115 x 30mm (2.95 x x 4.

5 x 1.2 in.) 110 0 g (3.8 oz) Ope erating: 0C ~ 40C (3 32F ~ 104F) Stor rage: 15C ~ 60C (5 5F ~ 140F) Snapshot Trigger eve ent: motion detection Action: sen nd alert email and/or r upload to FTP Real time s snapshot Port Sett in gs Time HTTP port: : 80 (default) Synchroniz ze with NTP server or r set time / date man nually TVIP551WI Camera General Sensor: 1/5 5" CMOS Sensor Board Lens s Focal Leng th: 4 mm F/No: 1.5 Minimum illumination: 0 lux Focus Dept th: 20 cm ~ infinity View: Hori izontal: 38.0 degrees s Vert ical: 28.7 degrees Diag gonal: 46.5 degrees Digital Zoom: 4x Hum midity Cer rifications Req uirement Ma anagement Inte erface Max x. 95% (noncondens sing) CE, FCC Inte ernet Explorer 7.0 or higher Fire efox 3.

5 or above Safa ari 4.0 or above Net twork Pro otocols IPv4 4, ARP, TCP, UDP, ICM MP TP Client DHC CP Client, NTP Client, , DNS Client, DDNS C Client, SMTP Client, FT HTT TP PPP PoE UPn nP Audio Builltin om mndirectional microp hone Sensitivity: 38dB +/- 3dB (5 me eters max.) © Copyright 2 2011 TRENDnet. All Rights Reserved. 27 net User's Gu uide TRENDn Wireless Standard Frequency y Modulatio on Antenna Date Rate IEEE 802.11 1b, IEEE 802.11g and d IEEE 802.11n 2.4 ~ 2.497 7 GHz ISM band DQPSK, DB BPSK, DSSS, and CCK Builltin 2dB Bi antenna 802.

11b: up to 11Mbps 802.11g: up to 54Mbps 802.11n: up to 150Mbps TVIP551 1W / TVIP551WI Por rt Settings Tim me Rea al time snapshot HTT TP port: 80 (default) Syn chronize with NTP se erver or set time / da ate manually Security Output Po ower 64/128bit WEP, WPA/WPA2PSK 802.11b: 17dBm (typical) 802.11g: 14 4.

5dBm (typical) 802.11n: 14 4.5dBm (typical) Receiving y Sensitivity Channels Managem ent Accounts Remote Lo ogin Backup / Restore Settings Image Video Sett ting 802.11b: 8 89dBm at 11Mbps 802.11g: 7 74dBm at 54Mbps 802.

11n: 7 71dBm at 150Mbps 1~11 (FCC), 1~13(ETSI) Up to 64 us ser accounts Remote ma anagement supporte ed Save/retrie eve configuration file es Brightness, , contrast, saturation n, sharpness, white balance, flip, mirror (horizontal/vertical), black & white, indoor, outdoor, schedule mode Encoding: M MJPEG Re esolution: 640 x 480 , 320 x 240 , 160 x 12 20 Max frame rate: VGA@ M @20fps, QVGA@30fp ps, QQVGA@30fps JP PEG quality: Very Low w, Low, Medium, High h, Very High Snapshot Trigger eve ent: motion detection n Action: sen nd alert email and/or r upload to FTP © Copyright 2 2011 TRENDnet. All Rights Reserved. 28 net User's Gu uide TRENDn TVIP551 1W / TVIP551WI to sunlight or hallogen lights. Repos ition the Network Camera into a mo ore shaded area imm mediately as prolon nged exposure to b bright lights will dam mage the CMOS sensor r. 5. The camera imag ges are 'noisy' Often if the came era is in a lowlight t environment, the images can contai in a lot of noise. Try enab bling Night mode a and see if that improves the image qu uality. Otherwise, try to o use the camera in n a location where there is a bit more e light. 6. The camera imag ges are of poor quality.

isplay properties a Make sure that y your computer's di are set to at least 1 16bit color. Using 16 o or 256 colors on yo our computer will produce dithering artifacts in the image, ma king the image loo ok as if it is of poor quality. Try also adjusti g the brightness, co ntrast, saturation n, light frequency and anti flicker controls o n the Video Sett in gs under the Config uration menu. You may and the compressio on rate also consider adj using the resolution of the camera a mage. to improve the im 7. Video can't be viiewed through the e web browser inte erface. ActiveX might be disabled. If you are viewing the images s from Internet Explorer X has been enable d in the Internet Opt tions menu. You may also make sure ActiveX need to change t the security setting gs on your browser r to allow the ActiveX plug in to be installed . If you are using In nternet Explorer w with a version numb ber lower than 6, then you will need to upgr rade your Web bro ower software in o order to view the streaming video t transmitted by the e Network Camera.

. Try also viewing the ed video using Java. Ensure that you have the latest vers sion of Java installe Go to www.java.com m for more informa ation. before you do. G Troubles shooting 1. The P Power LED and Eth ernet Activity LED D do not light up. The p power supply or camera might be fau ulty. Check that the e connection to bot th the p power source and t the terminal on the e back of the camera are secure and that y you are using the p provided power supply.

If the camera a is otherwise funct tioning correctly, th he LEDs might have e been disabled in the configuration. See t the section of this g guide on Configura ation of System sett tings.



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

Please switch 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 normally does not generate, use and can radiate radio frequency energy 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 approximately 11 channels through 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. Europe EU 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 prove conformity with the essential requirements of the R&TTE Directive 1999/5/EC: © Copyright 2011 TRENDnet. All Rights Reserved. 501: 2006 +A11:2009 EN 6095 EN 6231 11: 2008 TVIP551 1W / TVIP551WI Technology Equipment Safety of Information Technology Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz (IEC 623 311:2007 (Modified)) 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 channels; Harmonized EN covering essential and using spread spectrum modulation techniques E Directive requirements under article 3.2 of the R&TTE 0804) EN 301 4891 V1.8.

1: (200 Electromagnetic compatibility and Radio Spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements EN 301 4891 V2.1.1 (200 0905) Magnetic Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio 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 and Italy where they apply. In Italy the end user should apply for a license at the national spectrum authority 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 where the 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 [German] TRENDnet tímtó prohlasuje, že tento TVIP551W / TVIP551WI je ve shodě se základními požadavky a dalšími příslušnými směrnicemi 1999/5/ES. ustanovením Undertegnet de TRENDnet erklærer herved, at følgende udstyr TV IP551W / TV VIP551WI overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.



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Hiermit erklart TRENDnet, dass s sich das Gerat TV VIP551W / TV IP551WI in  Ubereinstimmung m mit den grundlegenden Anforderungen und den brigen einschlagigen Bestimmungen der Richtlinie 19 999/5/EG befindet. Kasolevaga a kinnitab TRENDnet et seadme TVIP551W / TVIP551WI vastavast dir rektiivi 1999/5/E phinuetele ja ni imetatud direktiivist tu ulenevatele teistele asjakohastele sat tetele. Hereby, TRENDnet, declares th hat this TVIP551W W / TVIP551WI is ce with the essential requirements an nd other relevant in complianc provisions of f Directive 1999/5/ /EC. Por medio de la presente TREN Dnet declara que el TVIP551W / requisitos esenciales y cualesquiera TVIP551WI cumple con los req o exigibles de la Directiva otras disposiciones aplicables o 1999/5/CE. TRENDnet TVIP P551W / TV IP551WI 199 99/5/. Par la presente TRENDnet declare que l'appareil T TVIP551W / TV IP551WI est conforme aux exig gences essentielles s et aux autres directive 1999/5/C CE. dispositions pertinentes de la d Con la prese ente TRENDnet dich hiara che questo TV VIP551W / TV IP551WI  co onforme ai requisiti ti essenziali ed alle e altre disposizioni pertinenti st tabilitate dalla direttiva 1999/5/CE. Ar so TREND Dnet deklarat, ka TV VIP551W / TVIP55 51WI atbilst Direktivas 19 999/5/EK btiskaj m prasbm un citiem ar to Li ietuvi [Lithuanian] TVIP551 1W / TVIP551WI saistt tajiem noteikumiem m. Siuo T TRENDnet deklaruo oja, kad sis TVIP55 51W / TVIP551WI atitink ka esminius reikala avimus ir kitas 1999 9/5/EB Direktyvos nuost atas. Hierbij verklaart TRENDn net dat het toestel TVIP551W / TV IP551W WI in overeenstem ming is met de essentiele eisen en d de ander re relevante bepalingen van richtlijn 1 1999/5/EG.

Hawn hekk, TRENDnet, ji iddikjara li dan TV IP551W / TVIP551 1WI jikkon nforma maltijiet essenzjali u ma p provvedimenti ora ajn releva anti li hemm fidDir rrettiva 1999/5/EC C. Alulro ott, TRENDnet nyila atkozom, hogy a TV VIP551W / TVIP551WI megfe elel a vonatkozo ala apveto kovetelmen nyeknek s az 1999/ /5/EC irnyelv egye b eloirasainak. Niniejjszym TRENDnet o wiadzcza, e TVIP5 551W / TVIP551W WI jest zgodn ny z zasadniczymi w wymogami oraz poz zostalymi stosownymi postan nowieniami Dyrekt tywy 1999/5/EC. TREND Dnet declara que e este TVIP551W / T TVIP551WI esta da confo rme com os requis sitos essenciais e outras disposicoes d tiva 1999/5/CE. Direct TREND Dnet izjavlja, da je ta TVIP551W / TV VIP551WI v skladu z ve bistve enimi zahtevami in ostalimi relevantn nimi dolocili direktiv 1999/ /5/ES. TREND Dnet tynto vyhlasu uje, ze TVIP551W / TVIP551WI spa zaklad dne poziadavky a v vsetky prislusne ust tanovenia Smernice 1999/ /5/ES. TREND Dnet vakuuttaa tat ten etta TVIP551W W / TVIP551WI tyypin enen laite on direkt tiivin 1999/5/EY oleellisten vaatimusten ja oskevien direktiivin n muiden ehtojen m mukainen. sita ko WI Harme ed intygar TRENDn net att denna TVIP P551W / TVIP551W star I  overensstammelse e med de vasentliga egenskapskrav och ovriga a relevanta bestam mmelser som fram gar av direktiv 1999/ /5/EG. Nede erlands [Dut ch] Malti M [Malt tese] Magyar M [Hung garian] Polski sh] [Polis Portugues [Portuguese] Sl lovensko [Slove enian] Sl lovensky [Slovak] Su uomi [Finnish] Sv venska [Swed dish] Eesti [Estonian] English Espanol [Spanish] [Greek] Franais s [French] Italiano [Italian] Latviski [Latvian]  Copyright 2 2011 TRENDnet. All Rights Reserved.

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