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You can read the recommendations in the user guide, the technical guide or the installation guide for TRENDNET TV-IP600. You'll find the answers to all your questions on the TRENDNET TV-IP600 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-IP600**  
**User guide TRENDNET TV-IP600**  
**Operating instructions TRENDNET TV-IP600**  
**Instructions for use TRENDNET TV-IP600**  
**Instruction manual TRENDNET TV-IP600**



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*Manual abstract:*

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*..... 5 Camera Hardware Components .....*

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..... 6 Rear Panel Components ..

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.. 7 INSTALLING THE CAMERA..

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... 8 Attach the Metal Plate .....

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*.. 8 Connect Ethernet Cable ....*

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*..... 9 Connect Power and Power On Camera ....*

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*.. 9 Reset Camera .....*

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... 12 USING THE UTILITY .....

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.... 13 SetupWizard .

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*13 USING THE CAMERA WEB MANAGER.....*

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*29 Accessing the Camera Video Display .....*

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*..... 29 Login .*

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*. 30 Web Configuration Utility.....*

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... 30 Administration ..

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..... 31 Status .....

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.... 32 System Status .

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*.. 32 Video Status ..*

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*... 33 Wireless Status (for TV-IP600W only) .....*

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*.... 34 Network Status .*

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..... 36 Configuration ...

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..... 37 System Configuration .....

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..... 37 Video Settings ...

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*39 Wireless Setup (for TV-IP600W only) .....*

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*..... 41 Network Settings ...*

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*. 59 FTP Server Test ....*

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*. 59 E-mail Test ....*

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*60 Firmware Upgrade .....*  
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*. 61 Backup ....*

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..... *62 Help* .....

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.. *63 About* ..

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*.... 63 Viewing Video.....*

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*. 64 Uploading/E-mailing Video ...*

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*..... 65 Controlling the Camera ..*

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*66 Adjusting the Viewing Angle.....*

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*.. 66 Storing Positions .....*

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*. 67 Swinging the Camera .....*

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*... 67 IPVIEW PRO 2.0 .....*

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*.. 68 IPView Pro 2.0 User Interface ..*



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..... 71 Camera configuration with IPView Pro 2.0..

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... 74 Schedule Recording with IPView Pro 2.0.

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. 76 Setup Motion Detection and Digital Input with IPView Pro 2.0..

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.. 77 PLAYING VIDEO FILES ON A COMPUTER .....

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. 80 Load Saved Video Files ....

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..... *81 Play Video Files .*

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..... *.. 83 APPENDIX ..*

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*89 A. Frequently Asked Questions ....*

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*..... 89 B. PING your IP Address ....*

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*.. 91 C. Troubleshooting ..*

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*... 93 D. Time Zone Table .*

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*Adjusting Internet Camera Focus .....*

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*101 G. Technical Specifications .....*

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..... 102 iii *TV-IP600/W Wireless Network Camera About This User's Guide* This User Guide provides instructions on how to install the TV-IP600/W Wireless Network camera and use it for camera monitoring applications. Camera monitor applications are accessible through an Ethernet or 802.11b/g wireless local area network. The following chapters are included in this User Guide: . . . . . Chapter 1, Introduction, provides general information about the Camera.

Chapter 2, Installing the Camera, describes the hardware installation procedure for the Camera.

Chapter 3, Security, explains the security features of the Camera. Chapter 4, Application of the Camera, provides an illustration of the Camera's applications.

Chapter 5, Using the Utility, guides you through configuring the Camera with the Utility. Chapter 6, Using the Camera Web Manager, guides you through configuring the Camera with a Web Browser. Chapter 7, IPView Pro, helps you to install and use the software.

Chapter 8, Playing Video Files on a Computer, shows you how to use the IPCamPlayer application to record and play back video recordings with the Camera. Chapter 9, Appendix. Please note that the illustrations or setting values in this manual are FOR YOUR REFERENCE ONLY. The actual settings and values depend on your system and network. If you are not sure about the respective information, please ask your network administrator or MIS staff for help.

1 *TV-IP600/W Wireless Network Camera 1 Introduction* Thank you for purchasing the TV-IP600/TV-IP600W Pan/Tilt (Wireless) Internet Camera, a standalone system that can be connected directly to an Ethernet or Fast Ethernet connection. The TV-IP600W also supports wireless transmissions based on the IEEE 802.11g standard. Compared to a conventional PC camera, the Pan/Tilt Internet (Wireless) Camera features a built-in CPU and web-based solution that can provide a cost-effective way of transmitting realtime high-quality video images for monitoring. The Camera can be managed remotely, allowing you to use a Web browser to access the Camera from any notebook/desktop computer over an intranet or the Internet. The simple installation procedures and Web-based interface allows you to easily integrate the Camera into your network. With comprehensive application support, the Internet Camera is an ideal

solution for remotely monitored, high quality and high performance video images. Features and Benefits Easy to use - The Camera is a standalone system with built-in CPU, no special hardware or software is required. The camera supports DirectX 9.0; therefore, the only requirement you need is the web browser software such as Internet Explorer 6.

0 or above. Once you have a valid IP Address, just connect it and you can view video footage from your Camera. In addition, the Camera's pan/tilt function allows you to adjust the Camera for optimal viewing angles. You can pan the Camera to the left or right (-156° ~ +156°) and tilt the Camera up or down (-45° ~ +70°) using the Web Configuration Utility. Motion detection and event triggered digital image or video recording Use the Motion Detection to take a snapshot or digital video record of objects the IP address you will enter into the Address field of your Web browser to access the camera monitor screen and configuration menus using a Web Browser. The camera uses DHCP for IP settings by default. If a DHCP server is not detected, the default IP address is 192.168.10.30.

(Make sure your computer is configured to belong to the 192.168.10.X subnet if using the default IP address of the camera.) The default subnet mask is 255.255.255.0. Password IP address Subnet Mask 5 TV-IP600/W Wireless Network Camera Camera Hardware Components This section provides information about the Camera's hardware components: Front Panel Components Adjustable focus camera lens Link LED indicator Power LED indicator Front panel of TV-IP600/W LED Indicators This LED indicator lights steady orange when a valid Ethernet link is established. It blinks orange when traffic is received or transmitted through the Ethernet link.

This LED indicator lights blue when the camera is powered on. It remains dark when powered off. LNK PWR 6 TV-IP600/W Wireless Network Camera Rear Panel Components The power connection to the camera when fitted with the Infrared lens is split between the camera body and lens using the power connection adapter cable attached to the infrared lens. All other cables connect to the camera at the rear panel. Antenna (TVIP600W only) Reset button Power receptacle Ethernet Port Rear Panel view of TV-IP600/W Ethernet Port Reset Button Antenna Power receptacle Connect to Ethernet LAN. The port is auto MDI-II/MDI-X and autonegotiation for port speed. Use to reset device to factory default settings including IP address and administrator user name and password. A threaded post is used for attaching the antenna. Fasten the antenna securely to the post. Connect power adapter shipped with the camera and plug into suitable power source.

7 TV-IP600/W Wireless Network Camera 2 Installing the Camera The camera is intended for indoor use. The camera, the power adapter and power source should be protected from water and moisture, excessive heat, direct sunlight and cold.



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Make sure the power adapter and its cord and the Ethernet cable are safely arranged so they do not create a tripping hazard and will not be disturbed by people or objects moving past. Attach the Metal Plate To attach the metal plate carry out the following: 1. Remove the two rubber pads under the base of the Camera. 2. 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. 3. Secure the metal plate to the base of the Camera with the two screws provided. 4.

The Camera can now be mounted to the ceiling or a wall. See the diagram below for more information. 1. Install the Camera to the ceiling using the two ceiling screws ( ); Or, 2. Install the Camera using the two wall screws ( ).

8 TV-IP600/W Wireless Network Camera Connect Ethernet Cable To connect the camera to your network, connect a Category 5 or better Ethernet cable to the network cable connector located on the camera's left side panel, and then attach it to the network. The Ethernet port will automatically detect and adjust to the speed (10 or 100 Mbps) and polarity (MDI-II or MDI-X) of the connection. Connect Power and Power On Camera To provide power to the camera, connect the AC power adapter to the DC power input connector, also located on the camera's left side panel, and then plug it to the electrical outlet. As with any electrical device, make sure the power source and camera are located in an area where it is not going to get wet or present an electrical hazard.

CAUTION: The Camera must be used with the power adapter included with the device.

9 TV-IP600/W Wireless Network Camera Reset Camera A manual reset can be conducted by following the procedure below. The reset button is located on the rear panel of the camera. To reset the system settings to factory defaults, please follow these steps: 1. Use a paper clip or similar object to hold down the reset button for three seconds. The reset button is located on the rear panel of the device. See the Rear Panel Components picture above to locate the reset button. 2. Release the reset button and the Power LED will begin to flash, indicating that the Camera is reverting back to factory settings. Upon restarting the camera loads the factory default configuration settings. The default IP address 192.

168.10.30 and subnet mask 255.255.255.0 will be applied unless a DHCP server is actively connected to the network. If using the TV-IP600W Wireless Camera, the default SSID is "TRENDNet". The administrator's default user name is admin and the password is admin. Use the Setup Wizard shipped with the camera to reconfigure it or access it through the web-based management software. 10 TV-IP600/W Wireless Network Camera 3 Security To ensure the highest level of security and prevent unauthorized usage of the Camera, the Administrator account has exclusive access to the System Administration configuration settings.

The Administrator account can create up to 64 users and configure different privilege levels for each user. The Camera supports multi-level password protection and access to the Camera is strictly restricted to User's that have been created in the User Configuration menu. 11 TV-IP600/W Wireless Network Camera 4 Application The TV-IP600 / TV-IP600W camera can be applied in a wide range of applications, including: · · · Monitoring of local and remote places and objects, such as construction sites, hospitals, amusement parks, schools and day-care centers by using a web browser. Using the IPView Pro application to capture singles frame images. Configuring the Camera to upload images to an FTP Server or sending e-mail messages with single frame images.

The diagram below shows the Camera being used for a number of different applications using the IPView Pro applications and includes basic information that may assist you with installing and configuring the Camera: 12 TV-IP600/W Wireless Network Camera 5 Using the Utility This chapter describes the software utilities for the IP Camera, including how to set up your Camera with the utility. The SetupWizard has a user-friendly interface that allows you to setup the Camera easily. SetupWizard This section describes how to install the SetupWizard and how to use the SetupWizard to setup and install your Camera quickly and easily. To install the SetupWizard on a system running Windows, launch the SetupWizard on the installation CD-ROM and follow the setup instructions. Installing the SetupWizard 1.

Click the Setup Wizard button for the Auto-Run menu screen. The InstallShield Wizard will appear: · Click Next > to continue. 13 TV-IP600/W Wireless Network Camera 2. The next window asks you whether you want to accept the License Agreement or not. · If you agree with the Licensing Agreement, click the I Agree radio button and the Next > button. If you don't agree with the Licensing Agreement, click the I Do Not Agree radio button to exit the install wizard. · 3. The following window appears asking you to choose the desired installation location. By default the destination location is C:\Program Files\TRENDnet\SetupWizard. · · Click the Browse button to change the default installation location.

Click the Everyone radio button to make the SetupWizard available to all users on your Computer. Click the Just me radio button to only make the application available to the user who is running the SetupWizard installation. Click Next > to continue. · · 4. The following window appears informing you that the installation is ready to start: · Click Next > to start the Installation. 14 TV-IP600/W Wireless Network Camera 5. The software will start to install. The following window appears, showing the progress of the installation: 6. When installation is complete the following window appears to confirm that the SetupWizard has installed successfully: · Click Close to exit the installation After installing the SetupWizard, the application program for the Camera is automatically installed on your computer. 15 TV-IP600/W Wireless Network Camera Launching the SetupWizard To launch the SetupWizard, click the SetupWizard icon on your desktop or go to Start > Programs > TRENDnet > SetupWizard > SetupWizard to start the application.

SetupWizard- Install Your Camera Connect the camera to your LAN using the provided RJ45 cable. Connect the AC Power Adapter to the back of the camera and to a live power socket. Click Next to continue. 16 TV-IP600/W Wireless Network Camera SetupWizard- Select Your Camera The following screen appears showing the cameras that have been found on your network: Click on the camera you want to configure. Click Next to continue.

17 TV-IP600/W Wireless Network Camera SetupWizard- Authentication On the following screen type in the ID and Password that you will use to configuring the camera settings: Type a User ID in the ID field.



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Type a password for the User in the Password field. Click Next to continue. 18 TV-IP600/W Wireless Network Camera Setup Wizard- Change Password The following screen allows you to change the default admin password: Carry out the following if you want to change the admin password: Tick the Change Password checkbox Type in a New Password in the New Password field and confirm it in the Confirm Password field Click the Next button to proceed to the next Setup window If you don't want to change the admin password, leave the checkbox un-ticked and click Next. 19 TV-IP600/W Wireless Network Camera Setup Wizard- Select a Connection Option The following window allows you to specify the connection method used by your camera network. Click the radio button of the network environment your camera is connected to. The available options are: PPPoE DHCP Fixed IP 20 TV-IP600/W Wireless Network Camera Setup Wizard Select a Connection Option - PPPoE If your connection method is PPPoE, click the PPPoE radio button and click Next: The following window appears: Type the User Name used to connect to your PPPoE connection in the User Name field. Type the Password of the PPPoE User Name in the Password field and confirm it in the Confirm Password field. Click Next to proceed to the next setup window. 21 TV-IP600/W Wireless Network Camera Setup Wizard- Select a Connection Option- DHCP If your connection method is DHCP, click the DHCP radio button and click Next: 22 TV-IP600/W Wireless Network Camera Setup Wizard- Select a Connection Option- Fixed IP If your connection method is Fixed IP, click the Fixed IP radio button: The following window appears: Type in the IP Address, Subnet Mask, Default Gateway, Primary DNS Server IP address and Secondary DNS Server IP Address in the appropriate fields. Click Next to proceed to the next setup window. 23 TV-IP600/W Wireless Network Camera Setup Wizard- Setup Wireless (For TV-IP600W only) After choosing your connection method, the following window appears: Choose if you want to connect to your camera using the wireless connection or not by clicking the appropriate radio button. Click Next to continue. 24 TV-IP600/W Wireless Network Camera Setup Wizard- Setup Wireless (For TV-IP600W only) If you selected the option to use a wireless connection to connect to your camera the following window appears: Choose the Access Point you want to connect the camera to from the Available AP dropdown menu. If the Wireless LAN you want to connect to doesn't appear in the Available AP list, click the Re-Scan button to scan for additional Wireless LAN's.

Type the SSID of the WLAN you want to connect to in the SSID field. Choose the Wireless Mode of your WLAN from the Wireless Mode drop-down menu. Choose the Channel of your WLAN from the Channel drop-down menu. Choose the Authentication method of your WLAN from the Authentication drop-down menu. Choose the Encryption method of your WLAN from the Encryption drop-down menu. Type the Encryption Key used by your Wireless LAN in the Key field. When you have finished configuring the wireless settings, click Next to continue to the next setup window. 25 TV-IP600/W Wireless Network Camera Setup Wizard- Other Settings The following window allows you to configure additional camera settings: Type a name to help you identify the camera in the Camera Name field. Set the camera date and time from the Camera Time drop-down menus. To use the time settings from your computer, click the Copy Local Time button.

Click Next when you have finished configuring the other settings. 26 TV-IP600/W Wireless Network Camera Setup Wizard- Setting Up The Camera The following window appears, summarizing the network settings of your camera: When you have finished setting up the Camera click the Next button. To make any changes to your Camera settings, click the Previous button. Setup Wizard- Camera Restart The following window appears, indicating that the camera is restarting: 27 TV-IP600/W Wireless Network Camera Setup Wizard- Complete After the camera has restarted, the following window will appear: Click the hyper-link to connect to the camera web interface. If you want to setup an additional camera, click the Setup Another Camera button.

When you have finished, click the Exit button to close the Setup Wizard. 28 TV-IP600/W Wireless Network Camera 6 Using the Camera Web Manager The camera is easy to use and manage. Use a normal web browser to access the camera's live video display, as well as the configuration software. It is recommended to check and make sure the computer can access and use the camera before placing it in the location where it will be used, especially if it is mounted to a ceiling or other area that is difficult to physically access. For the initial setup, use the Setup Wizard program located on the TV-IP600/W CD-ROM included with the camera.

Use the IPCam Wizard to assign an IP address and other network settings. Once the camera has an IP address, follow the instructions below to access the camera's web management interface used to manage the camera and for video display. Accessing the Camera Video Display If the camera is used on a network with an active DHCP server, the camera will detect it and obtain an IP address. If you are using the camera on a network with a DHCP server it is necessary to first determine what the IP address of camera is. To do this, follow the instructions in the Quick Installation Guide to launch the Setup Wizard to link to the cameras. NOTE: If your network uses DHCP or has an active DHCP server running, use the Setup Wizard utility on the installation CD-ROM shipped with the camera to first access the camera. Once it is accessed, you can change the IP address or continue to use the DHCP assigned address as preferred. See the Quick Installation Guide for instructions on using the Setup Wizard utility. If your network does not use a DHCP server, the camera will use a default IP address of 192.168.

10.30. Use this address to access the web-based management software. Use a web browser and type in http:// followed by the default IP address, 192.168.10.30 in the address bar of the browser and press the Enter key. The URL in the address bar should read: http://192.168.10.30 If the login dialog does not appear, check the proxy server settings on your browser. NOTE: The wrong proxy server settings on your browser can prevent connection to the web manager. If you are having trouble connecting to the web interface of the VLAN Switch, configure the proxy settings to bypass the proxy server or disable use of proxy servers and try to connect again. To check proxy setting for Windows Internet Explorer: 1. In Windows, click on the Start button, go to Settings and choose Control Panel.  
2. In the Control Panel window, double-click on the Internet Options icon. (Alternatively you can access this Internet Options menu using the Tools pull-down menu in Internet Explorer.



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) 3. Click the Connections tab and click on the LAN Settings button.

4. Verify that the "Use proxy server" option is NOT checked. If it is checked, click in the checked box to deselect the option and click OK. 29 TV-IP600/W Wireless Network Camera Login To access the web manager directly from a computer or on a network without a DHCP server running, use the default IP address of the camera in the browser address entry to access the web manager. Type <http://192.168.10.30> in the address bar and press Enter. The login dialog appears when accessing the camera. Type the default user name "admin", default password "admin" and click on the OK button to access the camera's management interface.

**Web Configuration Utility** After successfully logging in, the camera Welcome screen will appear with a still image. There are four options to choose from for setting up your camera: . . . Home Administration View Video ActiveX View Video Java Welcome Screen of the Web Configuration Utility 30 TV-IP600/W Wireless Network Camera Administration Click the ADMINISTRATION link to view the menus in the Administration Menu directory. The following menus are available in the Administration Menu directory: Status System, Video, Wireless (only for TV-IP600W camera), Network and Active Users. To access a menu click the link of the item you want to configure. System menu in Administration directory The different menus that are available are presented and described in the following pages. 31 TV-IP600/W Wireless Network Camera Status The following menus are available in the Status: System, Video, Wireless (only for TV-IP600W camera), Network and Active Users. To access a menu click the link of the item you want to view. System Status Click the System link from the column on the left hand-side to display the Device and Ethernet Status of your camera as shown on the screen below: System Status display Device Status This section displays the Camera Name, Location, Model, and Firmware Version, MAC Address and IP Address of the camera. Ethernet Status This section allows you to monitor the networking status of the camera, including the Link (network connection), Speed and the Duplex mode. 32 TV-IP600/W Wireless Network Camera Video Status Click the Video link from the column on the left hand-side to display the Video Status of your camera as shown on the screen below: Video Status display Video Status This section displays the video configuration of the camera, including the Video Resolution, Compression Rate, Frame Rate, Frame Size and Light Frequency.

33 TV-IP600/W Wireless Network Camera Wireless Status (for TV-IP600W only) Click the Wireless link from the column on the left hand-side to display the Wireless Status of your camera as shown on the screen below: Wireless Status display Wireless Status This section displays information about the Camera's Wireless LAN connection, including the Connection Mode (Infrastructure or Ad-Hoc), Link (whether the wireless connection is up or down), SSID, Channel, Transmission Rate and Encryption (whether encryption is enabled or not). 34 TV-IP600/W Wireless Network Camera Network Status Click the Network link from the column on the left hand-side to display the Network Status of your camera as shown on the screen below: Network Status display Network Status This section displays information about the Camera's LAN connection, including the IP Address, Subnet Mask, Default Gateway, Primary/Secondary DNS Address, Dynamic DNS (whether Dynamic DNS has been disabled or enabled), Secondary HTTP Port (whether Secondary HTTP Port has been enabled or disabled and the port number configured), UPnP (whether UPnP has been enabled or disabled and the IP address configured for UPnP), FTP Server Test and E-mail Test. 35 TV-IP600/W Wireless Network Camera Active Users Click the Active Users link from the column on the left hand-side to display the Active Users currently connected to your camera as shown on the screen below: Active Users display Active Users This section displays the IP address and Name of each user currently connected to the Camera, the Date/Time they connected and the rate of Millisecond / Packet that the user is transmitting. 36 TV-IP600/W Wireless Network Camera Configuration The following menus are available in the Configuration directory: System, Video, Wireless (only for TV-IP600W camera), Network, User, Date/Time, Upload and E-mail. To access a menu click the link of the item that you want to view.

**System Configuration** Click the System link from the column on the left hand-side to configure the basic settings of the camera. System Setting menu System Setting Use this section to configure basic information for your camera: · Camera Name: Use this field to enter a descriptive name for the device. The default name of the Camera is the same as the Camera model name. Therefore, for the TV-IP600 the default name is TV-IP600 and for the TV-IP600W the default name is TV-IP600W. The maximum length allowed for the Camera Name is 32 (printable ASCII) characters.

**Location:** Use this field to enter a description for the location used by the camera (optional). **Admin:** Use the fields to change the administrator name along with the password used to access the System Administration settings. Enter the administrator name in the Admin ID field, a password in the Admin Password field and confirm the password in the Confirm Again field. · 37 TV-IP600/W Wireless Network Camera The default setting for the Admin ID is "admin". The maximum length allowed for the Admin ID is 12 (printable ASCII) characters. The default setting for the Admin Password is "password". The maximum length allowed for the admin password is 8 (printable ASCII) characters. It is highly recommended to set the Admin ID and Admin Password as soon as possible to enable the security option for the camera to function. · **LED Control:** Use the radio buttons to control the LED illumination settings on the front of the Camera. The three LED Control options are as follows: Normal Power LED indicator will light steady Blue when the device is powered on.

**Link** LED indicator will light steady Orange when the device has a network connection. The LED indicator will flash if there is network activity. **OFF Power** - The LED indicator will be switched off. **Link** The LED indicator will be switched off. **Dummy Power** LED indicator will light steady Blue when the device is powered on. **Link** LED indicator will light steady Orange and flash randomly. The default setting for the LED control is Normal. When you have configured the LED control, the correct illumination setting will be set after 1 minute. 38 TV-IP600/W Wireless Network Camera Video Settings Click the Video link from the column on the left hand-side to configure the image configuration of your camera.



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Video Settings menu Video Settings: Use this section to configure the video settings for your camera as described below: · · Video Resolution: Click a radio button to set the desired video resolution format.

The available options are 160x120, 320x240 and 640x480. Compression Rate: Click a radio button to set the desired compression rate. There are five levels to choose from starting from Very Low and ending at Very High. Higher video compression rates will generate more compact file sizes with lower video quality and viceversa. The default setting is Medium.

Frame Rate: Click a radio button to select the desired frame rate. The default setting is Auto. Brightness Control: Use the buttons to adjust the brightness level. The default setting is 64. Contrast Control: Use the buttons to adjust the contrast level.

The default setting is 64. · · 39 TV-IP600/W Wireless Network Camera · · Saturation Control: Use the buttons to adjust the saturation level. The default setting is 64. Light Frequency: Click the radio buttons to adjust the light frequency to suit the area the camera is viewing. The available options are 50 Hz or 60 Hz (default). Mirror: Tick the Horizontal checkbox to mirror the image horizontally. Tick the Vertical checkbox to mirror the image vertically. This function is useful if you are mounting the camera on a ceiling. Anti-Flicker: Tick the checkbox to eliminate the flicker rays that come from fluorescent light tubes. · 40 TV-IP600/W Wireless Network Camera Wireless Setup (for TV-IP600W only) The TV-IP600W Wireless Network Camera supports normal wireless LAN functions for 802.

11b/g wireless networks including WEP or WPA basic security settings. Wireless Configuration menu 41 TV-IP600/W Wireless Network Camera Wireless Interface Use the Wireless Interface menu to configure the Camera's wireless interface. Wireless Interface menu · Connection Mode: Click a radio button to determine the type of wireless communication for the camera. The two options are Infrastructure and Ad-Hoc, with Infrastructure being the default. SSID: The SSID (Service Set Identifier) is the name assigned to the wireless network. Type the SSID of the Wireless LAN you want to connect to in the SSID field or use the dropdown menu to choose the SSID you want to connect the Camera to. To refresh the list of available Wireless LAN's, click the Site Survey button. Wireless Channel: Use the drop-down menu to choose the channel used for communicating with your Wireless LAN. A "channel" is a range of frequencies used to communicate between the Camera and an Access Point in Infrastructure mode, or the Camera and PC/Notebook in Ad-Hoc mode. Transmission Rate: Use the drop-down menu to choose the transmission rate.

The default setting is Fully Automatic. · · 42 TV-IP600/W Wireless Network Camera Encryption Use the Encryption menu to configure the Camera's Encryption settings. Wireless Encryption menu · WEP Encryption: Wireless network communications can be intercepted easily. WEP (Wired Equivalent Privacy) is an encryption method specified by the IEEE 802.11g standard to make intercepting wireless communication by unauthorized parties more difficult. Click this radio button to specify that WEP Encryption will be used. The default setting for this option is Disable. WEP Key Length: Click a radio button to specify the length of the WEP Key that is used on your Wireless LAN. The Camera offers 64 bits or 128 bits lengths for the WEP Key. In general, a larger key length creates a stronger cipher.

The default setting is 64 bits. · 43 TV-IP600/W Wireless Network Camera · WEP Key Format: If enabling WEP Encryption you should decide whether to use an ASCII or HEX format for your WEP Key. Use the radio buttons to choose an ASCII or HEX format for your WEP key and type the WEP keys used in the Key 1 ~ 4 fields. ASCII input format: ASCII format causes each character you type to be intercepted as an eight-bit value. All unaccented upper and lower-case Western European characters that can be inputted through your keyboard's typing zone are valid. To setup a 64-bit WEP key, input 5 ASCII characters, e.g., '12345'. To setup a 128-bit WEP key, input 13 ASCII characters, e.g.

'1234567890123'. These character counts result in bit counts of 40 and 104 respectively; the camera will automatically pad your input to a bit count of 64 or 128. HEX input format: HEX format causes each pair of characters you type to be interpreted as an eight-bit value in hexadecimal (base 16) notation. Only digits 0 through to 9 and the letters A through to F (in upper or lower case) are valid. To setup a 64-bit WEP key, input 10 HEX format. For example, '31323334353637383930313233', which is the same as ASCII input '1234567890123'. These character counts result in bit counts of 40 and 104, respectively; the camera will automatically pad your input to a bit count of 64 or 128. · Encrypt Data Transmissions Using: Use the drop-down menu to decide if you want to use Key 1, 2, 3 or 4 for encryption. Authentication Type: Click a radio button to specify the Authentication Type used with WEP Encryption. Open System communicates the key across the network.

Shared Key allows communication only with other devices with identical WEP settings. The default setting is Both. WPA-PSK / WPA-PSK2: Click the radio button to enable WPA-PSK / WPA-PSK2 encryption for the Wireless connection. This encryption mode is designed for home and small business users to secure their wireless connection without using network authentication servers. @@@@Enter at least one DNS IP Address in this section.

@@@@@The time will be synchronized every 24 hours. @@@@Type the current date in yyymm-dd format in the Date field. Type the current time in hh:mm:ss format in the Time field. @@@@The standard port number for FTP is 21, the default setting. @@User Name: Use the field to enter the user name used to login to FTP.

Password: Type the password of the user name used to login to FTP. Directory Path: Enter an existing folder name in this field. The images will be uploaded to the specified folder. Passive Mode: Click a radio button to specify if your FTP server uses Passive Mode or not. Please check with your IT Department for information about your FTP server. · · 52 TV-IP600/W Wireless Network Camera Time Schedule Use this section to enable images to be uploaded to an FTP Server at regular intervals. Time Schedule menu · Enable upload image to FTP server: Tick the checkbox to enable images from the Camera to be uploaded to an FTP server. Always: Click this radio button to specify that images will always be uploaded to the FTP Server. Schedule: Click this radio button to specify that images will upload to the FTP server according to the schedule settings.



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Set the days that the images will be uploaded to the FTP server by ticking the appropriate checkboxes.

Type in the time (hh:mm:ss) that the FTP uploads will start on the selected days in the Start field. Type in the time (hh:mm:ss) that the FTP uploads will stop on the selected days in the Stop field. Video Frequency: There are two ways to set the video frequency: 1) Set the Frames/Second drop-down menu to be Auto/1/2/3 frames per second 2) Type in a value to set the time in seconds for every frame in the Seconds/Frame field. . . Base File Name: Use the field to specify the base file name that the images will be saved as. 53 TV-IP600/W Wireless Network Camera · File: Since you may not upload only one image to the FTP server, you can use this field to specify the fling rule. Use the radio buttons to specify the option that you want to use. The available options are Overwrite, Date/Time Suffix and Sequence Number Suffix Up to. If specifying the Sequence Number Suffix Up to option type the highest sequence number you want to File to in the text box. Manual Operation Use this section to manually upload images to an FTP Server. Manual Operation menu . . . Enable upload image to FTP server: Tick the checkbox to enable images from the Camera to be uploaded to an FTP server.

Base File Name: Use this field to specify the base file name that the images will be saved as. File: Since you may not upload only one image to the FTP server, you can use this field to specify the fling rule. Use the radio buttons to specify the option that you want to use. The available options are Overwrite, Date/Time Suffix and Sequence Number Suffix Up to. If specifying the Sequence Number Suffix Up to option type the highest sequence number you want to File to in the text box.

54 TV-IP600/W Wireless Network Camera E-mail Use the E-mail menu to setup the configuration of the E-mail account, time schedule and manual operation settings. E-mail menu 55 TV-IP600/W Wireless Network Camera E-mail Account Use this section to configure your E-mail Account configuration. E-mail Account settings · SMTP Server Address: SMTP (Simple Mail Transfer Protocol) is a protocol used for sending e-mail messages. Type in the mail server address that will be used to send e-mail messages between the different servers on your network. Sender's e-mail Address: Use this field to enter the e-mail address of the user who will send e-mail.

Recipient's e-mail Address: Use this field to enter the e-mail address of the user who will receive e-mail. User Name: Use this field to enter the user name of a user who has access to the SMTP server. Password: Use this field to enter the password of the user specified in the User Name field. . . . 56 TV-IP600/W Wireless Network Camera Time Schedule Use this section to section to enable images to be e-mailed to the specified e-mail account at regular intervals E-mail Time Schedule settings . . . Enable e-mail image to e-mail account server: Tick the checkbox to enable images from the Camera to be e-mailed to an e-mail recipient. Always: Click this radio button to specify that images will always be e-mailed to the specified e-mail recipient. Schedule: Click this radio button to specify that images will be e-mailed to the e-mail recipient according to the schedule settings. Set the days that the images will be e-mailed to the e-mail recipient by ticking the appropriate checkboxes. Type in the time (hh:mm:ss) that the e-mails will be sent on the selected days in the Start field. Type in the time (hh:mm:ss) that the e-mails will stop being sent on the selected days in the Stop field. Interval: Type a value in seconds to determine the time interval between two images being sent.

. 57 TV-IP600/W Wireless Network Camera Manual Operation Use this section to E-mail Manual Operation settings . . Enable e-mail image to e-mail account: Tick the checkbox to enable images from the Camera to be e-mailed to an e-mail recipient. Interval: Type a value in seconds to determine the time interval between two images being sent. 58 TV-IP600/W Wireless Network Camera Tools The following menus are available in the Tools directory: FTP Server Test, E-mail Test, Reset, Factory Reset, Firmware Upgrade and Backup. To access a menu click the link of the item you want to view. FTP Server Test Click the FTP Server Test item in the column on the left-hand side to test your FTP Server connection. FTP Server Test menu Test FTP Server Click the Test button to test that you can successfully send files to the FTP Server you have configured. E-mail Test Click the E-mail Test item in the column on the left-hand side to test your E-mail connection. E-mail Test menu Test E-mail Click the Test button to test that you can successfully send an e-mail from the Camera to the Recipient e-mail Address you configured in the Administration > Configuration > E-mail window of the web configuration utility. 59 TV-IP600/W Wireless Network Camera Reset This option allows you to restart your Camera. Reset menu Reset Device Clicking the Yes button will restart the Camera, retaining your saved settings, as if you were turning the device off and on. If you do not want to restart the Camera, exit this window without clicking Yes. Factory Reset This option will reset the Camera to factory settings. Factory Reset menu Reset to Factory Settings Clicking the Yes button will reset the Camera back to factory default settings. If you do not want to restore the Camera back to factory default settings, exit this window without clicking Yes. Please NOTE that you will need to configure the network settings again after a Factory reset.

60 TV-IP600/W Wireless Network Camera Firmware Upgrade When new firmware is available, you can upgrade it through this window. To upgrade the camera firmware, make sure the correct firmware file is located on your computer. Click the Browse button to locate the file. After locating the file, click the Upload button to load the file. It will take several seconds to load the firmware and restart the camera.

Firmware Upgrade menu 61 TV-IP600/W Wireless Network Camera Backup The Backup window allows you to Backup or Restore the Camera settings. Backup Settings menu Backup Device Configuration to File To save configuration settings for the camera to a file on a local hard disk, click the Backup button. A prompt appears to confirm that you want to save the file. Choose the location and save the file to the specified location. Restore Device Configuration From File To load a previously saved configuration settings file, click the Browse button to locate the file, and then click the Restore button. It will take a few seconds to load the new settings. The camera will then restart. 62 TV-IP600/W Wireless Network Camera Help The Help window displays help topics for the Camera.



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About The About option displays the Camera's model name and version. About menu 63 TV-IP600/W Wireless Network Camera Viewing Video The TV-IP600W allows you to view video images using ActiveX or Java in your web browser.

Click View Video Active X or Java from the Welcome screen to access the video images from your browser. Position your Camera for the desired location and turn the lens clockwise or anticlockwise to adjust the focus of the Camera. View Image ActiveX and Java Mode Camera Name and Date/Time: The camera name and the current date/time will be displayed when the related information has been entered in the Configuration section of the Web Configuration Utility. 64 TV-IP600/W Wireless Network Camera Uploading/E-mailing Video In the View Video Active X or Java windows, it is possible to turn the Upload Image and E-mail Image options ON or OFF. Simply click the corresponding ON or OFF buttons to turn the Upload Image or E-mail Image options ON or OFF. Upload Image and E-mail Image Controls NOTE: 1. In order to view video using the ActiveX Mode you will need to install the Xplug Control Utility. Please refer to Appendix E for instructions on how to install the Xplug Control Utility The administrator has the authority to set the upload/e-mail video function through the setting in the Upload/E-mail option under Configuration. 2. 65 TV-IP600/W Wireless Network Camera Controlling the

Camera You can control the Camera's viewing angle using the control buttons on the left-hand side of the viewing window. Camera Control Buttons Adjusting the Viewing Angle To adjust the camera's viewing angle, simply click the Up / Down / Left / Right buttons. These buttons allow you to easily move the Camera's lens to focus on the object that you want. Clicking the Home button allows you to return to the original position. The Pan Degree and Tilt Degree options allow you to increase/decrease the amount the camera pans and tilts each time you click the button. 66 TV-IP600/W Wireless Network Camera Storing Positions The Camera allows you to store positions that you want to monitor regularly, allowing you to quickly move the Camera's lens to focus on objects that you want to monitor regularly.

You can store up to 24 positions in the Camera (the number "0" is reserved for the default position "Home"). To store the current position of the Camera, select a number between 1 and 24 from the Preset Position drop-down menu and click Set. To remove a stored position, select the number (position) that you want to remove from the Preset Position drop-down menu and click Clear. To move the Camera to an existing stored position, select the desired number (position) from the Preset Position drop-down menu and click the Go To button. The Camera's lens will immediately move to the desired position.

Swinging the Camera The Camera can swing automatically between Stored Positions. Once you have stored two or more positions in the camera, click the Swing button to make the Camera swing from one position to another. Click the Stop button to stop the Camera swinging. 67 TV-IP600/W Wireless Network Camera 7 IPView Pro 2.0 This section describes the how to setup a camera using the IPView Pro 2.0 camera monitoring software. To install IPView Pro 2.0 on a system running Windows, launch the IPView Pro 2.0 installation software on the installation CD-ROM and follow the setup instructions. Once the software is installed, the IP Cam Center camera monitoring utility is ready for use.

Add up to 32 network cameras to monitor using the software. Additional software, IPCam Player software is also installed. The IPCam Player is used for playing recorded video from cameras that have been configured to save recorded files. Launching IPView Pro 2.0 for the first time To launch IPView Pro 2.0, double click on the IPView Pro 2.0 icon on your desktop or go to Start > Programs > TRENDnet > IPView Pro 2.0 > IPView Pro 2.0. If this is the first time using the software, the menu that appears is the Add camera menu: 68 TV-IP600/W Wireless Network Camera Add a camera for monitoring The Add camera menu is presented the first time the IPView Pro 2.

0 software is launched. This menu is used to add cameras to the user interface for monitoring. After the first time running the software, this menu can be accessed at anytime from the Configuration menus. The Configuration menus are described in a later section of this chapter. Notice that the IPView Pro 2.0 software has automatically detected eligible cameras running on the network. To add a camera to the IPCam user interface, follow these instructions: 1. Check the list of cameras detected by the software. If the camera you want to add does not appear on the list, click the Refresh button to conduct another search. If it still does not appear, check the IP address of the camera and click on the Input the location of camera menu tab and skip ahead to step 2.

1. Choose the camera to add Enter ID and password for the camera being added 2. Select the camera to add from the list, enter the administrator's user name (ID:;) and password, a preview of the live video display will appear. Click the OK, add this camera button, a confirmation message informs when the camera is connected and added to the IPView Pro 2.0 monitoring group. Repeat this procedure for all the cameras being added. Click the Exit button after all the cameras have been added. 69 TV-IP600/W Wireless Network Camera If the camera does not appear listed, click the Input the location of camera tab above the list to view a new menu. Enter the IP address or the URL (for example, ipcam.ddns.

org) of the camera being added, type the user name and password and click the Preview to verify that a link can be established. The live video of the camera should appear in the Live preview display. If a link cannot be established, run the Setup Wizard software for the camera and verify the correct IP address.

Click Exit to return to the main Add camera menu. Type the IP address of the camera Enter user name and password for camera being added 3. Once the cameras have been added, they are ready to be used in the main IPView Pro 2.0 user interface. Close the Add camera menu (click Exit) to go to the main user interface. See below for a description. 70 TV-IP600/W Wireless Network Camera IPView Pro 2.

0 User Interface Below is a general description of the user interface. 2 1 3 4 5 6 7 8 NO. 1 Item Live video display area Description Display area for single or multiple cameras of live video. Right click on any display area to view a list of quick configure options for that camera including the "Replace camera content

." option used to change the order of the live video displays for multiple camera views. Use to minimize IPView Pro 2.0 interface or exit the program, a confirmation is required to exit.



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Click directional arrows to move camera in that direction within the limits of the pan and tilt range.

The + in the center of the control is used to return to the home or center view as configured for the camera. See below for detailed information. See below for detailed information. Use to quickly assess the status of operating cameras. Click on box to select camera display. The status indicators for each camera display recording, motion detection and GP input status. Displays basic information on selected camera. 2 3 Minimize and

Exit Pan and Tilt control (cameras using RS-485 Pan/Tilt device only) Snapshot, recording and audio controls Live video display controls Camera configuration menu Camera status 4 5 6 7 8 Camera information 71 TV-IP600/W Wireless Network Camera Display Controls The primary display and IPView Pro 2.0 control icons are described in detail below.

When there are more than one camera displays viewed, one of the displays can be selected for management or additional changes. Simply left click on any display to select it. Notice the border around the display is bright aqua blue, indicating the "selected" status. For example, to go to a single screen display for any one camera, select the camera and click on the single screen display. Left click on any display to "select" that display for camera management. Right click to view camera management and display options. Snapshot, recording and audio controls The still photo camera icon is used to take a snapshot of the selected live video display. The video camera icon is used to begin video recording of the selected live video display. Snapshot and videos files are stored in a default folder on the administrator's system, or in a folder designated by the administrator. The audio controls are represented by a microphone icon to activate the internal mic or the auxiliary audio input (if present), and a speaker icon for the audio output (remote speakers, if present).

Notice that when these functions are activated, the color of the icon changes from white to yellow. Audio and video controls - inactive Audio and video controls - activated 72 TV-IP600/W Wireless Network Camera Live video display controls Use the video display controls to change the view of the live video display. This is useful for multiple camera application. Click the arrows to manually cycle through the active camera's live displays when using a single camera display screen. Click multi-screen display icons to change the number of camera's displayed at one time.

To change the order in which the camera displays appear in the interface, move the cursor over a display you want to change and right click. A dialog appears (see example below). The top most option in the dialog allows the user to Replace content by ... followed by a list of connected camera IP addresses (or URL locations). Select the camera display you want to occupy the position the cursor is placed over. The display position will then be swapped with the chosen camera. Switch to full screen view of selected display screen. Click to automatically cycle through the active camera displays. Click to record all active cameras. Launch IPCamPlayer to view stored video files. Click to add or configure cameras. See details below. 73 TV-IP600/W Wireless Network Camera Camera configuration with IPView Pro 2.

0 Access the camera configuration menus by clicking on the gear icon at the bottom of the right hand panel of the IPView Pro 2.0 user interface.

Configuration options include adding and deleting cameras from the display view, configuration of motion detection and digital input with schedules, recording options, email alerts and other network settings. Adding a Camera The procedure to add a camera after the initial launch of the software is very similar to the procedure used during the first setup. Follow the instructions below to add cameras. To add a camera: 1. Click the Configuration icon to view the Camera Setup menu. The top most tab of the menu is the Camera Management tab. A list of active cameras appears on the left half of the menu. Select the camera to be added from the list.

Click the Add Camera by IP Address to find the specified IP address or network URL of the camera you want to add. 74 TV-IP600/W Wireless Network Camera 2. Select the camera to add from the list, enter the administrator's user name (ID:) and password, a preview of the live video display will appear. Click the OK, add this camera button, a confirmation message informs when the camera is connected and added to the IPView Pro 2.0 monitoring group. Repeat this procedure for all the cameras being added. Click the Exit button after all the cameras have been added. 3. The camera added now appears in the Camera List. To launch the web manager for the newly added camera or any camera in the active camera list, select it and click the Browse Selected Camera button.

Removing a Camera To remove the camera from the list of active: 1. Select the camera you want to remove. 2. Click Delete Selected Camera. NOTE: Any camera display can be removed from the main IPView Pro 2.0 user interface by right-clicking on the display screen for the camera and selecting the Remove this Camera option. Launch Web Manager for Selected Camera To launch the web-based IP Camera manager for any active camera in the list, simply select it and click the Browse Selected Camera button. 75 TV-IP600/W Wireless Network Camera Schedule Recording with IPView Pro 2.0 Use the Camera Settings menu to create schedules for recording and apply the schedules to any camera. Click the Camera Settings tab to view the Schedule Recording menu (the first menu viewed in the Camera Settings menu tab).

To apply an existing schedule template, click the Select button and choose a schedule from the list of previously created schedule templates. If a new schedule is needed it can be created from the Select Schedule Template menu (See below). Create Schedule Templates To make a new schedule template, click the Create Template button to view the Create Schedule Profile menu. Use this menu to create new schedules for recording. Click Create Template to make a new schedule. 76 TV-IP600/W Wireless Network Camera Setup Motion Detection and Digital Input with IPView Pro 2.0 The Camera Settings menus include Motion Detection setup and Digital Input control. Each menu has the schedule option to apply a schedule for the action taken or always take the specified action. For Motion Detection, use the Config motion detection area menu to create the area to which it is applicable. Click the Config motion detection area button in the Motion Detection setup menu to view the menu in a new pop up window.

77 TV-IP600/W Wireless Network Camera IPView Pro 2.0 Recording Options The Recording Options configured in the IPView Pro 2.0 help to conserve and manage allowed memory storage (disk space) and for video file management.



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Recorded files can be limited by time elapsed or by size. Use the select storage folder to choose an alternative destination for stored video files. Storage limits can be set for each camera by time elapsed or hard disk space allowed. A limit can also be placed for the system and all cameras used in IPView Pro 2.0. 78 TV-IP600/W Wireless Network Camera IPView Pro 2.0 Miscellaneous Options The Other Options available for configuration include Proxy server setup, email notification, scan interval and alert type settings.

79 TV-IP600/W Wireless Network Camera 8 Playing Video Files on a Computer IPCamPlayer software is installed on the monitoring station or administrator's system along with the IPView Pro 2.0 monitoring software. Use it to playback and manage recorded video from the cameras added to the IPView Pro 2.0 group. In order to use the software however, it is necessary to first install the ffdshow package of codecs used for media files. There is an ffdshow installation file on the CD shipped with the camera. Install ffdshow before using the IPCamPlayer. For information on installation and use of ffdshow, see the ffdshow section at the end of this chapter. Click to launch Player. The IPCamPlayer can be launched directly from the IPCamCenter or from the Programs menu.

To launch the program from the IPView Pro 2.0 interface, click the movie icon on the control panel of the main IPView Pro 2.0 interface to launch IPCamPlayer. NOTE: Install the ffdshow package of video codecs from the installation CD before using the IPCamPlayer. 80 TV-IP600/W Wireless Network Camera Load Saved Video Files Each camera has a file created automatically for storing video files. These files are normally located in the My Documents folder in Windows. The file folders are named according to the IP address and camera model. For example, 192.168.10.

30\_TV-IP600/W is the name of the file folder for the TV-IP600/W using the default (non-DHCP) IP address. IPCamPlayer User Interface 1 2 3 4 NO. 1 2 3 4 File list Item Description Video files added to the list are viewed in the order listed. Video files in the list are played here. The progress bar and starting time of the video clip appears beneath the view screen.

Use the Search Files button to add recorded video files. A new menu pops up that is used to find and add files to the list. (See description on next page) Standard video playback controls for Stop, Play/Pause, go to next file (>>) or go to previous file (<<) Faster and Slower to control speed of playback. Playback can be slowed to as much as 1/8 normal speed or speeded up to as fast as 8 times the normal speed. The vertical slider control is used for audio volume control.

View Screen Add/Delete files from list Playback controls 81 TV-IP600/W Wireless Network Camera To view recorded video files in the IPCamPlayer, it is first necessary to locate and select the files to be viewed and add them to the list. Click the Search Files button in the IPCamPlayer main interface and a new menu appears. In the new menu, use the Select Camera pull-down menu to choose the video file folder of the camera to be reviewed. Use the Search Time menu to narrow the search to a specific time and date. Finally, the Event selection menu is used to further narrow the scope of the file search for videos triggered by Motion Detection or a Digital Input device. When the search criteria have been defined, click the Search button to place qualified files in the Search list. Choose the files to be added to the view file list by check marking the individual files or click the Select All button to check mark all files in the Search list, click Add to place the check marked files on the list of files for viewing. After the files to be viewed have been chosen, click the OK button. Play Video Files Now that the recorded video files have been selected and placed on the file list, they can be played and reviewed in the IPCamPlayer. Use the standard playback controls to play video files at normal speed or slowed down, paused, speeded up etc.

Use the mouse and left click to grab the playback sliding progress indicator to move back and forth through the video. 82 TV-IP600/W Wireless Network Camera ffdshow The ffdshow software is used for audio and video encoding and decoding, especially for MPEG-4 formats. It is free software used on Windows systems and enables the user to tweak media playback and select specific codecs and formats. For use with the IPCamPlayer, the default settings used for ffdshow installation are all that is needed. Expert users can change audio and video codecs as desired with one of the three ffdshow configuration utilities installed along with the codecs. The configuration utilities can be accessed after installation from the ffdshow folder in the Programs folder (Start > Programs > ffdshow > [configuration utility]). Install ffdshow 1. Insert the CD-ROM into the CD-ROM drive to initiate the auto-run program. The menu screen will appear as below: 2. Click the ffdshow install link, and select the desired language in the pop-up dialog window.

83 TV-IP600/W Wireless Network Camera 3. The InstallShield Wizard will appear, click Next in the welcome screen. 4. Accept the default location (Windows Programs folder) on the system for placement or Browse to choose an alternative, Click Next to continue. 84 TV-IP600/W Wireless Network Camera 5.

Click to check the components that will be installed. For IPCamPlayer it is only necessary to use the default components already selected. Click Next to continue. 6. Accept the default destination folder (ffdshow) or Browse to choose an alternative, Click Next to continue.

85 TV-IP600/W Wireless Network Camera 7. Click to check the additional tasks that will be installed. For IPCamPlayer it is only necessary to use the default formats already selected. Click Next to continue. 8. Click to check the video applications that use ffdshow. For IPCamPlayer it is only necessary to use the default applications already selected. Click Next to continue. 86 TV-IP600/W Wireless Network Camera 9. Click to check the audio applications that use ffdshow.

For IPCamPlayer it is only necessary to use the default applications already selected. Click Next to continue. 10. Choose a speaker setup or choose Disable mixer if unsure. The audio function will work regardless of what speaker setup is chosen. Usually it will choose the default arrangement used on system on which it is being installed. Click Next to continue. 87 TV-IP600/W Wireless Network Camera 11. Review the information and click Install if satisfied that it is correct to install the necessary codecs. The installation will take a few seconds.

12. If desired, any of the three configuration utilities included with the ffdshow installation can be launched by checking the appropriate box. Click Finish to complete the installation. NOTE: To download the latest copy of ffdshow please check the ffdshow website <http://ffdshow>.



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