



e-Watch™ Portable Surveillance Kit

Getting Started Guide PSK-101

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- Move the equipment to one side or the other of the television or radio.
- Move the equipment farther away from the television or radio.
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The use of the word partner does not imply a partnership relationship between e-Watch and any other company.

e-Watch™ systems do not prevent crimes from being committed, but are intended to be used to monitor and investigate.

e-Watch components are electronic devices and complex commercial software products. As such, they may fail on occasion. Multiple devices with overlapping zones should be used for redundancy.

e-Watch event notification capabilities must be user programmed and activated prior to use. System reliability is dependent on the underlying network infrastructure and associated communications services that may fail on occasion. The user of the e-Watch system is advised to evaluate risk associated with network failures and operator errors. Routine auditing and preventive maintenance of the system is essential to assure optimum performance.

Event analysis and recreation is subject to system configuration, lighting conditions, environmental conditions, lens and housing cleanliness, distance to subject, operator-invoked control settings, and many other factors.

Read and follow all documentation to assure proper performance.

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PREFACE

The preface describes the purpose, audience, organization, and conventions of this guide and provides information on how to obtain related documents.

The preface covers these topics:

- Purpose
- Audience
- Organization
- Related Documentation
- Conventions
- Obtaining Documentation
- Documentation Feedback
- Obtaining Assistance

Purpose

This document provides instruction for the installation and setup of the PSK-101 Portable Surveillance Kit. The PSK-101 Portable Surveillance Kit is designed to be used as a self-contained demonstration system or as a fully functional, and yet small, mobile surveillance system. The Installation Guide for PSK-101 Portable Surveillance Kit provides a parts list and diagrams for the cable connections and wiring. This document also provides illustrations of the connections and construction required. This document acts as an illustrated guide for hardware and software installation.

Audience

The Getting Started Guide for the PSK-101 Portable Surveillance Kit provides information for hardware and software setup. This document is intended for qualified persons with a basic understanding of software installation and plug-and-play hardware. This document requires

knowledge of basic network hardware installation. Ability to lift five to ten pounds is required for installation of the kit.

Organization

This guide is organized as shown in the following table

Part	Description
Part 1	<p>‘Installation Guide’</p> <p>Contains information on constructing and installing a PSK-101 Portable Surveillance Kit. Diagrams and procedures are included.</p>
Part 2	<p>‘Appendix’</p> <p>Contains illustrations and listings for parts included with the kit, as well as parts required by the customer for construction of the PSK-101 Portable Surveillance Kit.</p>

Related Documentation

Refer to the following documents for further information about the PSK-101 Portable Surveillance Kit.

- URG-9094-001—PSK-101 User Guide, Getting Started
- URG-9110-001—SiteWatch™ Situational Awareness System Administration Guide
- URG-9111-001—e-Watch™ Situational Awareness System Quick Start Guide
- URG-9105-001—GateWatch™ Third-Party Integration Software Administration Guide
- URG-9112-001—e-Watch Product Overview

Conventions

This document uses the following conventions:

CONVENTION	DESCRIPTION
Boldface font	Commands and keywords are in boldface .
<i>Italic</i> font	Arguments for which you supply values are in <i>italics</i> .
[]	Elements in square brackets are optional.

{x y z}	Alternate keywords are grouped in brackets and separated by vertical bars.
[x y z]	Optional keywords are grouped in brackets and separated by vertical bars.
String	A non-quoted set of characters. Do not use quotation marks around the string or the string will include the quotation marks.
Screen font	Terminal sessions and information the system displays are in screen font.
Boldface screen font	Information you must enter is in boldface screen font.
<i>Italic</i> screen font	Arguments for which you supply values are in <i>italic</i> screen font.
^	The symbol ^ represents the key labeled Control - for example, the key combination of ^D in a screen display means hold down the Control key while you press the D key.
-->	This pointer highlights an important line of text in an example.
<>	Non-printing characters, such as passwords, are in angle brackets.

Obtaining Documentation

The following sections provide sources for obtaining documentation from e-Watch, Inc.

World Wide Web

e-Watch documents can be found by going to the e-Watch web site www.ewatchinc.com

By Mail

e-Watch, Inc.
 720 Lincoln Center
 7800 IH 10 West
 San Antonio, Texas 78230
 210.349.2020
support@ewatchinc.com

Documentation Feedback

You can submit technical comments about e-Watch documentation in the following ways:

E-mail your comments to support@ewatchinc.com

To submit comments by mail, write to the following address:

e-Watch, Inc.
720 Lincoln Center
7800 IH 10 West
San Antonio, Texas 78230

We appreciate your comments.

Obtaining Assistance

The following sections provide sources for obtaining assistance from e-Watch, Inc.

Customer Support

For technical assistance please send requests to support@ewatchinc.com or your local e-Watch reseller. You may also call 210-349-2000 and ask for Customer Support.

Sales

For assistance with sales or marketing please call 210-349-2000 and ask for Sales or send requests to sales@ewatchinc.com.

Introduction

PSK-101 Portable Surveillance Kit serves as a complete e-Watch Situation Awareness system. It contains components to configure and run the e-Watch software and hardware in a closed environment.

Key Features and Benefits

The PSK-101 Portable Surveillance Kit provides integrated support for the e-Watch™ Situational Awareness System. It consists of e-Watch cameras, an encoder and software, as well as the necessary supporting hardware to set up a complete system.

e-Watch is an enterprise-wide surveillance and situational awareness system optimized for transmitting MPEG video streams, high resolution JPEG images, detected event data and other sensor and detector data using digital data transmission over both wired and wireless networks (LANs, WLANs).

The e-Watch Encoder is designed to encode legacy CCTV cameras and NTSC equipment and transmit the digital video signal over the network.

The comprehensive e-Watch Situational Awareness System is based on standard networking and Internet technology. Both real-time and archived data may be viewed from any authorized PC on the LAN, WAN or the Internet. The archive application tracks and maintains all situational awareness information and provides high-speed random access for fast location of data relating to specific events.

Components Supplied by PSK-101 Portable Surveillance Kit

The PSK-101 Portable Surveillance Kit contains the following components:

- 2 ea. CAM-201 Daylight Camera**
- 1 ea. ENC-201 Encoder**
- 1 ea. SiteWatch™ Situational Awareness Software (PSK Version)**
- 1 ea. Registration Number**

3 ea. PWR-101 1-Port Power Inserter
1 ea. LEN-101 .7X Wide Angle Conversion Lens
1 ea. LEN-102 2X Telephoto Conversion Lens
2 ea. Compact Tripod
1 ea. USB Application Security Device
3 ea. 3 ft. Category 5 8/C UTP Cable
1 ea. 6ft./7ft Category 5 8/C UTP Cable
3 ea. 15 ft. Category 5 8/C UTP Cable
3 ea. 120 VAC Power Cord

All of the Ethernet cables included in this kit are commercial, off-the-shelf products and can be used interchangeably. Careful connection procedures always should be followed.

Components Supplied by Customer

The kit contains all of the necessary components for setup of the e-Watch Situational Awareness System; however, the customer is required to furnish a computer with the following minimum specifications:

Operating System

Microsoft® Windows 2000 Professional
Microsoft® Windows 2000 Service Pack 2

Software

Microsoft® Internet Information Services
Microsoft® Internet Explorer 5.5 or 6.0

Processor

1 Ghz Intel or AMD Processor or higher
10/100 Ethernet Network Interface

- Call for use of systems which employ multiple embedded NICs on the motherboard.

Video Display

16-bit Color with 1024 x 768 pixels screen resolution
For optimum video quality, install the OEM video drivers
16 MB video card. Memory should be on board the card, **NOT** shared system RAM.

Memory

756 MB of RAM or higher

Hard Drive

6 GB Hard Drive (3 GB of Free Space on hard drive recommended)

Other Components

Customer furnished Ethernet Switch with the following specifications:

- 10/100 MB Managed Ethernet Switch (CISCO® 2900 XL or equivalent)

Customer furnished NTSC compliant CCTV camera with customer provided power supply (for use with the Encoder).

For More Information

e-Watch Sales at sales@ewatchinc.com

e-Watch Technical Support at support@ewatchinc.com

PSK-101 Getting Started

Getting Started

This guide will provide step-by-step instructions to set up your PSK-101 Portable Surveillance Kit. Please follow this guide thoroughly and in order. Many components are dependent on the installation of other components and may not install, or configure properly, if done out of order.

Verify System Prerequisites

Review the customer supplied components (Appendix B). This configuration should be a closed system and not connected to any other network. Configuration of the network and installation of the provided DHCP server will be required.

Verify PSK Parts/Components

Review the PSK Parts List (Appendix A). Ensure that all components are included in the Kit. If any parts are missing, please contact e-Watch Customer Support.

Configure Internet Explorer

1. From the Internet Explorer TOOLS menu, click INTERNET OPTIONS.
2. Click the SECURITY Tab.
3. Click TRUSTED SITES, then click the SITES button.
4. Uncheck the REQUIRE SERVER VERIFICATION (https:) for all sites in this zone checkbox.
5. In the ADD THIS WEB SITE TO THE ZONE box, type **http://localhost**, then click the ADD button.
6. Click the **OK** button.
7. In the SECURITY LEVEL FOR THIS ZONE area, click the **CUSTOM LEVEL** button.

8. Scroll down to find the MICROSOFT VM/JAVA PERMISSIONS group, then click the **CUSTOM** checkbox.
9. Click the now-activated **JAVA CUSTOM SETTINGS** button.
10. Click the **EDIT PERMISSIONS** tab.
11. In the UNSIGNED CONTENT/RUN UNSIGNED CONTENT group, click the **ENABLE** checkbox.
12. Click the **VIEW PERMISSIONS** tab and verify that the PERMISSIONS GIVEN TO UNSIGNED CONTENT group contains the entry FULL PERMISSIONS.
13. Click the **OK** button in the TRUSTED SITES window.
14. Click the **OK** button in the SECURITY SETTINGS window.
15. Click **Yes** on the warning window asking "Are you sure you want to change the security settings for this zone?"
16. Click the **Advanced** edge tab.
17. Under Browsing, uncheck "Reuse windows for launching shortcuts."
18. Click the **OK** button in the INTERNET OPTIONS window.
19. Close Internet Explorer.
20. Hide the Windows Task Bar. Right-click an empty spot on the Task Bar, select **PROPERTIES**, uncheck the ALWAYS ON TOP option, then click the **OK** button.

Configure Network IP Address

1. Right click the "My Network Places" shortcut on the desktop.
2. Click **Properties** from the drop-down menu.
3. Right click the "Local Area Connection" short cut from the Network Dialup Connections window.
4. Click **Properties** from the drop down menu.
5. Click on "Internet Protocol (TCP/IP)" to highlight it.
6. Click the **Properties** button.
7. Click on "Use the following IP address."
8. Enter the following data in the "IP address" input field
192 . 168 . 10 . 1 .
9. Enter the following data in the "Subnet mask" input field
255 . 255 . 255 . 0 .
10. Click the **OK** button.
11. Click the **OK** button again.
12. Close Networking and Dialup Connection dialog box.

Setup Network Cabling (refer to Figure 1)

1. Attach the seven-foot Ethernet cable to your computer network card.
2. Connect other end of the seven-foot Ethernet cable to a vacant port on your Ethernet switch.

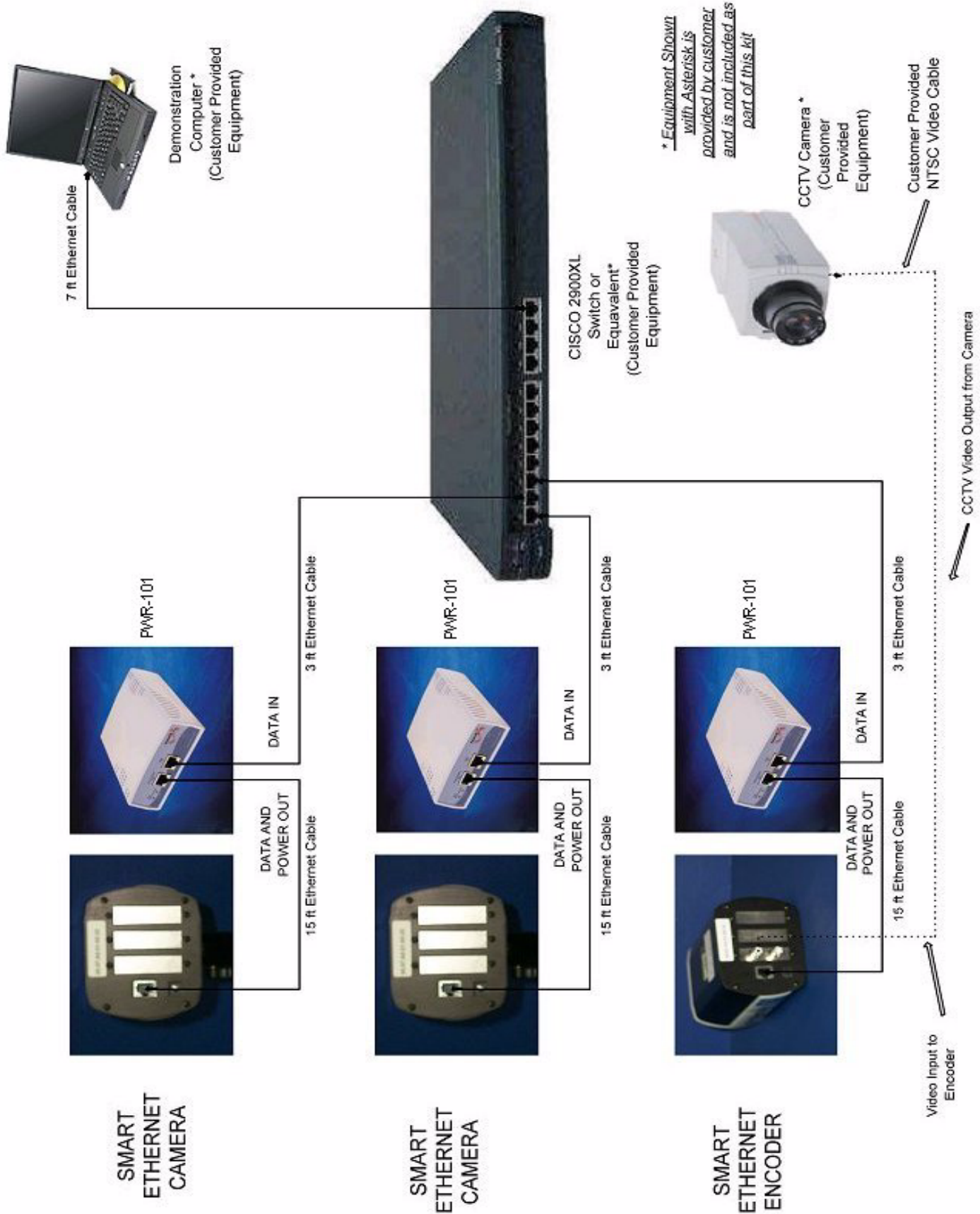


Figure 1

3. Connect the three, three-foot Ethernet cables between your switch and the three PWR-101 power units in the ports labeled "DATA IN."
4. Connect the three fifteen foot Ethernet cables between the PWR-101 port labeled "DATA AND POWER OUT" and the RJ-45 Ethernet port on the rear panel of the two cameras and encoder.

WARNING: *When one end of the fifteen-foot cable is plugged into the "DATA AND POWER OUT" port of the PWR-101, make sure the other end is connected to a camera or encoder and IS NOT mistakenly plugged into a vacant port on the Ethernet switch. The power from the "DATA OUT" can blow the port on the switch.*

Turn On Power To All Equipment

1. Power on the Ethernet switch.
2. Connect power cords to the three PWR-101 units.
3. Verify LED lights when appropriate.
4. Verify the equipment is now powered.

Note: The customer must provide the cable that connects the customer's camera to the encoder. The cable must have a BNC connector for the "Encoder" input end.

Verify Network IP Address for PSK Server

1. Verify that the computer is connected to a network.
2. Click **Start**, then **Run**.
3. Type **cmd**, then click **OK**.
4. At the DOS prompt, type **ipconfig**, then press Enter.
5. Verify that the reported IP address is 192.168.10.1.

Note: If IP address doesn't show, restart computer and retry.

Install SiteWatch™ software

Internet Information Services (IIS) should be installed before attempting the SiteWatch installation.

1. Insert the e-Watch PSK CD into your CD drive.
2. Click the **Start** button on the taskbar.
3. Click **Run**.
4. Enter the following, where D is the drive letter of the CD-ROM drive in which you installed the e-Watch CD in, **D:\SETUP.EXE**.
5. Click **OK**.
6. Carefully read the license agreement. If you agree with the license agreement, click the **Yes** button. If you do not agree with the license agreement, click the **No** button. The license agreement specifies the terms and conditions of the SiteWatch software. If you do not agree

with the license agreement, the installer will not proceed with the installation.

7. When the Installshield wizard asks for the destination folder, click Next to select the default destination.
8. There will be a pause while the drivers are installed. Wait until you receive a prompt to insert the Application Security Device.
9. The next window will ask you to connect the security device. Connect the Application Hardware Key to the server. If the Hardware Key is a USB version, please wait for it to be detected and installed by the operating system. You will know the USB key is ready when you see it light up. The parallel version does not require you to wait and will not light up. Click the OK button.
10. Enter the registration number provided by e-Watch.
11. Click **Next**.
12. Please wait for the command screens to finish that part of the installation.
13. Click **OK**.
14. Click the Finish button to complete the installation.

Start the e-Watch DHCP Server

1. Activate the DHCP Server by clicking on the "e-Watch DHCP Server" icon on the desktop.
2. Minimize the DHCP Server windows and leave running on the task bar.

Verify Camera Connections

1. Verify that the cameras have received valid IP addresses.
2. Verify that the e-Watch DHCP Server program is running.
3. Verify that the blue LED on each camera is lit. If not, unplug the Ethernet cable, wait 2 seconds, then plug in the cable.
4. Select **Alt-Tab** to make the e-Watch DHCP Server the active window.
5. Click the **Active** tab.
6. Verify that there is an entry on the form **IP Address (Hardware Address)** for each camera. If not, unplug the Ethernet cable from all of the cameras, stop and restart the e-Watch DHCP Server, then plug in the cables.
7. Verify that each IP address is 192.168.10.100, 192.168.10.101, or 192.168.10.102. If not, verify that the computer's IP address is set to 192.168.10.1, verify that the computer's Ethernet cable is connected to a switch, unplug the Ethernet cable from all of the cameras, restart the computer, then plug in the cables.

8. Note the IP address assigned to each hardware address. The hardware address is on a label affixed to the outside of the camera or encoder case.

Make The IP Address Assignments Static

By default, the cameras and encoders are assigned IP addresses based on the order in which they are connected. If desired, the devices can be assigned the same IP address each time regardless of the order in which they are connected by making the assignments static.

1. Click Alt-Tab to make the e-Watch DHCP Server the active window.
2. Click the **Active** tab.
3. For each IP address assignment, click the row in the window to highlight the row, then click the **Copy To Static** button.
4. Click the **Static** button and verify that IP address assignments appear in the window.
5. Minimize (do not close) the e-Watch DHCP Server.

Install The e-Watch Video Plug-in

When you log on for the first time, you will need to install the e-Watch Video Plug-in.

1. Click the e-Watch icon on the desktop to start the application.
2. Uncheck the "Load Last Settings" box.
3. Logon as UserID:**administrator** Password:**administrator**.
4. The Filter Test popup window appears prompting you to install the plug-in.
5. Click the **Install** button.
6. The InstallShield window appears.
7. Click the **Next** button.
8. The RegSvr32 window appears.
9. Click the **OK** button.
10. The InstallShield window shows Installation Completed.
11. Click the **Finish** button.
12. The Filter Test popup window shows Complete.
13. Click the **Done** button.
14. Close Control Station - eWatch.

Configure Cameras

The camera icons are pre-configured in the software by IP addresses indicated below. Refer to the IP and hardware addresses obtained in Step 10 to determine which camera icon in the software represents each device.

1. Camera 1: IP 192.168.10.100.

2. Camera 2: IP 192.168.10.101.
3. Camera 3: IP 192.168.10.102.
4. Each camera and encoder has up to three video sources:
 - a. Main: the internal camera for camera models.
 - b. Aux 1: the upper external video input for encoder models.
 - c. Aux 2: the lower external video input for encoder models.
5. Verify that each camera's Video Source setting is correct.
6. Click the e-Watch encoder icon on the desktop to start the application.
7. Logon as UserID:**administrator** Password:**administrator**
8. If the e-Watch demo site is not loaded automatically:
 - a. Click the **Sites** button.
 - b. Click the e-Watch demo site to highlight it.
 - c. Click the **Load** button.
9. Right-click the camera icon on the map to view the popup menu.
10. Click **Camera** on the menu to view the Camera Definition screen.
11. Click the Camera tab.
12. Locate the **Source** setting, and click the radio button next to the camera's video source.
13. Click the **Apply** button.

Verify Video

1. Click the e-Watch icon on the desktop to start the application.
2. Logon as UserID:**administrator** Password:**administrator**.
3. If the e-Watch Demo site is not loaded automatically;
 - a. Click the **Sites** button.
 - b. Click the e-Watch Demo site to highlight it.
 - c. Click the **Load** button.
4. Drag each camera icon from the map and drop it into the video pane. Click the 4x4 or higher button below the video pane to show more than one camera's video.
5. If no video appears;
 - a. Verify that the blue LED on the camera is lit. If not, review the section on Verify Camera Connections.
 - b. Verify that the camera's pre-configured IP address matches the IP address assigned by the e-Watch DHCP Server.
 - c. Verify that the camera's video source setting is correct.
 - d. Verify that all cables are properly connected.

Parts List

The following parts are supplied with the PSK-101 Portable Surveillance Kit.

Table 1:

Quantity	Product Name	Description
2 ea.	CAM-201	e-Watch™ Daylight Camera
1 ea.	ENC-201	e-Watch™ Encoder
1ea.		SiteWatch™ Situational Awareness Software—PSK Version
1ea.		Registration Number
3 ea.	PWR-101	Single Port Power Over LAN
1 ea.	LEN-101	.7X Wide Angle Conversion Lens
1 ea.	LEN-102	2X Telephoto Conversion Lens
2 ea.		Compact Tripod
1ea.		USB Application Hardware Key
3 ea.		3 ft. Category 5 8/C UTP Cable
1 ea.		6ft. Category 5 8/C UTP Cable
3 ea.		15 ft. Category 5 8/C UTP Cable
3 ea.		120 VAC Power Cord

Customer Supplied Equipment

The following equipment and tools are required.

The customer will be required to furnished a computer with the following minimum specifications:

Operating System

Microsoft® Windows 2000 Professional
Microsoft® Windows 2000 Service Pack 2

Software

Microsoft® Internet Information Services
Microsoft® Internet Explorer 5.5 or 6.0

Processor

1 Ghz Intel or AMD Processor or higher
10/100 Ethernet Network Interface (Intel Pro100B or equivalent)

Video Display

16-bit Color with 1024 x 768 pixels screen resolution
For optimum video quality, install the OEM video drivers
16 MB video card. Memory should be on board the card, **NOT** shared system RAM.

Memory

756 MB of RAM or higher

Hard Drive

6 GB Hard Drive (3 GB of Free Space on hard drive recommended)

Other Components

Customer furnished Ethernet Switch with the following specifications:
10/100 MB Ethernet Switch (CISCO® 2900 XL or equivalent)

Customer furnished NTSC compliant CCTV camera with customer provided power supply (for use with the Encoder).