



e-Watch®

e-Watch® Portable Surveillance Kit

Getting Started Guide PSK-103

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You can determine whether your equipment is causing interference by turning it off. If the interference stops, it was probably caused by the e-Watch® equipment or one of its peripheral devices. If the equipment causes interference to radio or television reception, try to correct the interference by using one or more of the following measures:

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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.

C O N T E N T S

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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-103 Portable Surveillance Kit. The PSK-103 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-103 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-103 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-103 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-103 Portable Surveillance Kit.</p>

Related Documentation

Refer to the following documents for further information about the PSK-103 Portable Surveillance Kit.

- URG-9108-001—PSK-103 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
- URG-9106-001—SiteWatch™ Situational Awareness System User Guide

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 <code>screen font</code> .
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 Corporation.

World Wide Web

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

By Mail

e-Watch Corporation
 7800 IH 10 West, Suite 720
 San Antonio, Texas 78230
 210.349.2000
support@e-watch.com

Documentation Feedback

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

E-mail your comments to support@e-watch.com

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

e-Watch Corporation
7800 IH 10 West, Suite 720
San Antonio, Texas 78230

We appreciate your comments.

Obtaining Assistance

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

Customer Support

For technical assistance please send requests to support@e-watch.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@e-watch.com.

Introduction

PSK-103 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-103 Portable Surveillance Kit provides integrated support for the e-Watch® Situational Awareness System. It consists of an e-Watch camera, 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, MJPEG 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 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-103 Portable Surveillance Kit

The PSK-103 Portable Surveillance Kit contains the following components:

- 1 ea. CAM-201 Daylight Camera**
- 1 ea. SiteWatch™ Situational Awareness Software**
- 1 ea. Registration Number**
- 1 ea. PWR-101 1-Port Power Inserter**
- 1 ea. Compact Tripod**
- 1 ea. USB Application Security Device**

- 1 ea. 3 ft. Category 5 8/C UTP Cable**
- 1 ea. 15 ft. Category 5 8/C UTP Crossover Cable**
- 1 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 with Service Pack 2 or higher,
or Microsoft Windows XP Professional

Software

Microsoft® Internet Information Services
Microsoft® Internet Explorer 6.0

Processor

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

Video Display

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

Memory

256 MB of RAM or higher

Hard Drive

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

For More Information

e-Watch Sales at sales@e-watch.com

e-Watch Technical Support at support@e-watch.com

PSK-103 Getting Started

Getting Started

This guide will provide step-by-step instructions to set up your PSK-103 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.

Install Java Virtual Machine If Necessary

If you are using Microsoft Windows XP you may not have the Microsoft Java Virtual Machine (JVM) installed. To check this, click the **Start** button, then click **Run**. Type **cmd** in the dialog box then click **OK** to open a command window. In the command window type **jview** then press Enter. If you have the JVM installed, the following message will appear:

```
Microsoft (R) Command-line Loader for Java Version 5.00.3805
```

If this message does not appear, you must install the JVM from the e-Watch PSK CD. Insert the disk into your CD drive. Click the **Start** button, then click **Run**. In the dialog box type:

`D:\ADDITIONAL FILES\MICROSOFT JAVA VIRTUAL MACHINE
BUILD 3805\MSJAVX86.EXE`

where *D* is the drive letter of the CD drive. Press Enter, and follow the installation prompts to install the JVM.

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. Click In the Add This Web Site To The Zone box.
6. Enter the URL of computer.
7. Click the **Add** button.
8. Verify that the URL of the SiteWatch server is displayed in the Web sites: box.
9. Click the **OK** button.
10. In the Security Level For This Zone area click the **Custom Level** button.
11. Scroll down to find the Microsoft VM/Java Permissions group, then click the `Custom` checkbox.
12. Click the now-activated **Java Custom Settings** button at the bottom of the dialog.
13. Click the Edit Permissions tab.
14. In the Unsigned Content/Run Unsigned Content group click the **Enable** radio button.
15. Click the View Permissions tab and verify that the Permissions Given To Unsigned Content group contains the entry Full Permissions.
16. Click the **OK** button in the Trusted Sites dialog.
17. Click the **OK** button in the Security Settings dialog.
18. Click the **Yes** button on the warning window asking "Are you sure you want to change the security settings for this zone?"
19. Click the **Advanced** tab in the Internet Options dialog.
20. Under Browsing, uncheck "Reuse windows for launching shortcuts."
21. Click the **OK** button in the INTERNET OPTIONS window.
22. Close Internet Explorer.
23. 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 2-1)

1. Attach the 15-foot Ethernet crossover cable to your computer network card.
2. Connect the other end of the 15-foot Ethernet crossover cable to the data in port of the PWR-101.

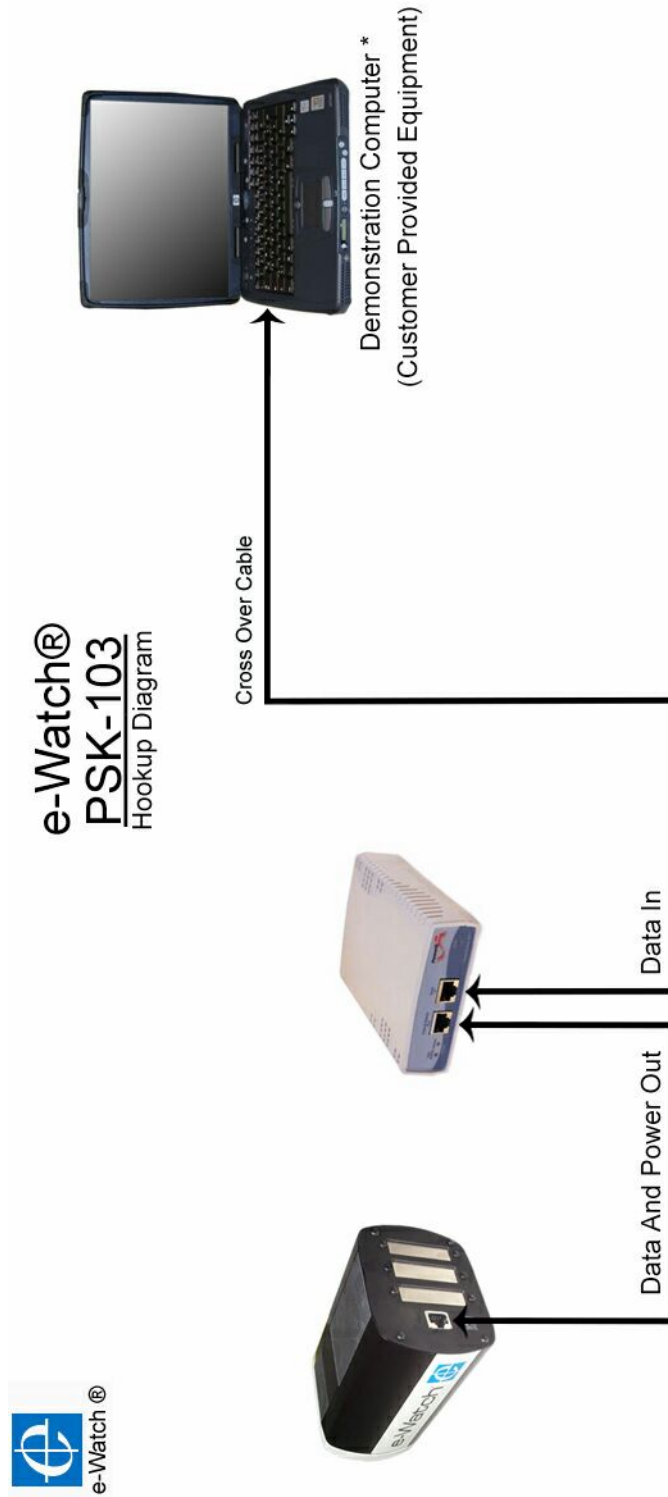


Figure 2-1. Cabling Diagram

3. Connect the 3-foot Ethernet cable between the PWR-101 port labeled "DATA AND POWER OUT" and the RJ-45 Ethernet port on the rear panel of the camera.

WARNING: *When one end of the 3-foot cable is plugged into the "DATA AND POWER OUT" port of the PWR-101, make sure the other end is connected to the camera and IS NOT mistakenly plugged into a vacant port on the computer. The power from the "DATA OUT" can blow the port on the computer.*

Turn On Power To All Equipment

1. Connect power cords to the PWR-101 unit.
2. Verify LED lights when appropriate.
3. Verify the equipment is now powered.

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. Follow the installer wizard instructions.
7. Be sure to select (PSK) when prompted by the installer.

Start the e-Watch DHCP Server

1. Activate the DHCP Server by clicking on the "e-Watch DHCP Server" icon on the desktop. Note that the e-Watch DHCP Server will not run unless your IP address is 192.168.10.1.
2. Minimize the DHCP Server window and leave it running on the task bar.

Verify Camera Connections

1. Verify that the camera has received a valid IP address.
2. Verify that the e-Watch DHCP Server program is running.
3. Verify that the blue LED on the 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 the camera. If not, unplug the Ethernet cable from the cameras, stop and restart the e-Watch DHCP Server, then plug in the cables.
7. Verify that the 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 the hardware address. The hardware address is on a label affixed to the outside of the camera case.

Make The IP Address Assignments Static

By default, the cameras 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** tab 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. Follow the InstallShield instructions
8. The Filter Test popup window shows Complete.
9. Click the **Done** button.
10. Close ViewWatch.

Configure Camera

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.

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 the camera icon from the map and drop it into the video pane.
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 all cables are properly connected.

Parts List

The following parts are supplied with the PSK-103 Portable Surveillance Kit.

Table 1:

Quantity	Product Name	Description
1 ea.	CAM-201	e-Watch® Daylight Camera
1 ea.		SiteWatch™ Situational Awareness Software—PSK Version
1 ea.		Registration Number
1 ea.	PWR-101	Single Port Power Over LAN
1 ea.		Compact Tripod
1 ea.		USB Application Hardware Key
1 ea.		3 ft. Category 5 8/C UTP Cable
1 ea.		15 ft. Category 5 8/C UTP Crossover Cable
1 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 or higher

Software

Microsoft® Internet Information Services
Microsoft® Internet Explorer 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
32 MB video card. Memory should be on board the card, **NOT** shared system RAM.

Memory

256 MB of RAM or higher

Hard Drive

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