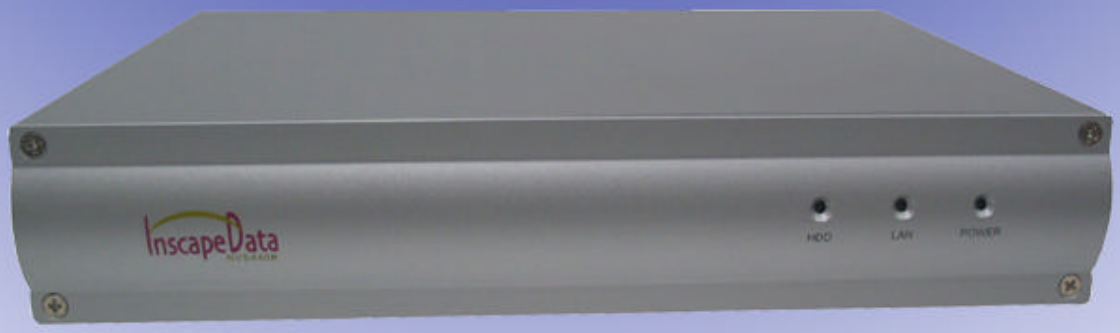
Quick Reference Guide

AirGoggle™ Network Audio/Video Server



AirGoggle NVS410

AirGoggle NVS440

AirGoggle NVS440R

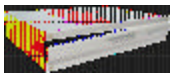
1. Overview

1.1 Box Content

Please make sure the following items are in the box.

Content	Description	Remark
Product main body	NVS (Network A/V Server)	NVS410 : 1CH server NVS440 : 4CH server NVS440R : 4CH DVR (HD: 120GB)
Power adapter	Input: 100~250V 50-60Hz Output: +12V, 2.0A	
AC Power Cable	AC 250V, 10A~16A	
LAN Cable	2m long (Cross Type)	For direct connection between the server and install PC.
CD	Software & User's Guide	Install wizard supported
Quick Reference Guide	Quick installation guide	
Warranty Certificate	Product warranty information	May be included in Quick Reference Guide.
Sensor/Relay Adapter(440/440R Only)	Quick connect adapter to interface input sensors and output relays	2 sets

1.2. Preview

Product	IP-Installer	Viewer Program(NVR100)
		
A/V Server	A PC program that helps install IP address onto the product	PC software to view and record the A/V streaming data transmitted from products

1.3. Physical description

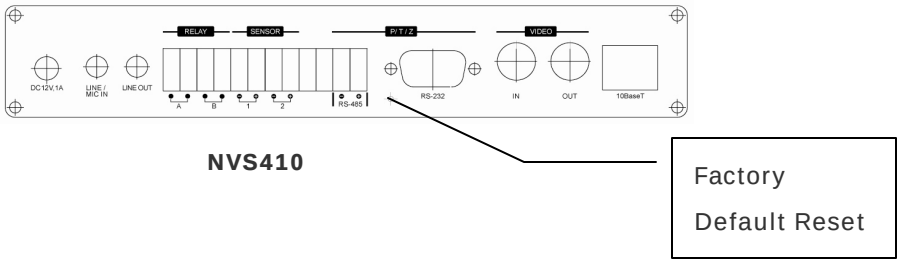
1.3.1. Front Panel

NVS410

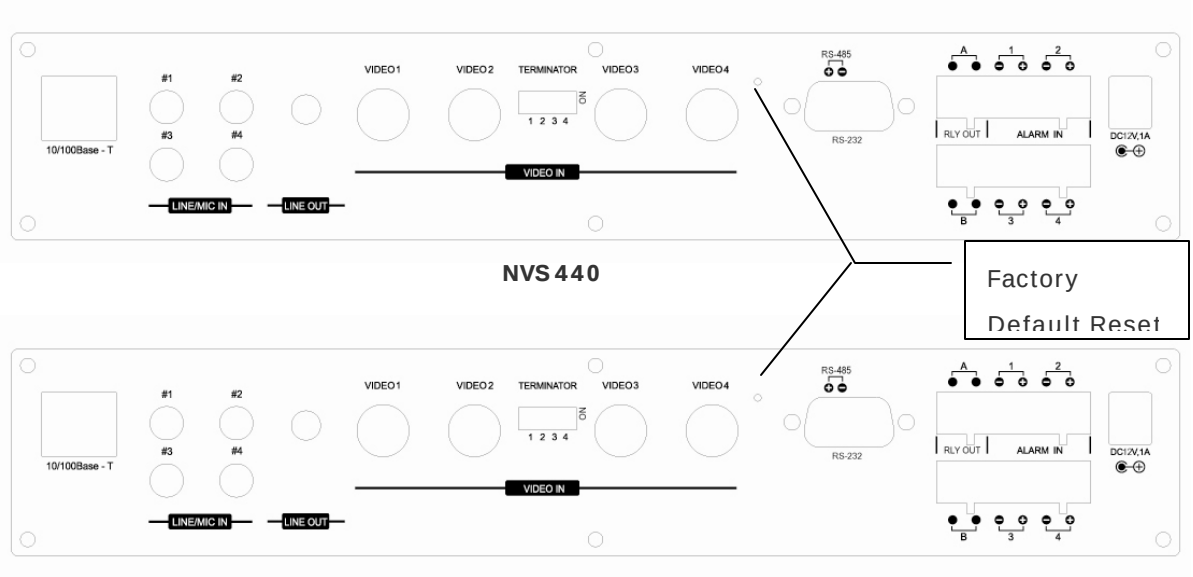
NVS440/440R

- **POWER**: Status indicator shows the status of the NVS in three different colors.
  - ① Green: The green light indicates that the NVS is operating properly. If the green light is continuously on, it means that the NVS is ready to transmit data via network. If the green light blinks, it means that there is traffic between LAN and NVS.
  - ② Red: The red light indicates that the hardware of the NVS is not operating properly.
  - ③ Orange: The orange light indicates that the software of the NVS is not operating properly.
- **LAN:** Link indicator, continuous green light means that LAN is in normal state. When there is traffic on the LAN, orange light flickers.
- **HDD**: HDD lamp lights on when HDD is being accessed. (Only apply for NVS440R)
- **Microphone:** Picks -up sound from the environment for transmission over the network.

1.3.2. Rear panel



NVS410



NVS440

NVS440R

- **MIC/LINE IN:** Interfaces to external audio device / microphone
- **LINE OUT:** Interface to connect external speaker with amplifier
- **10BaseT:** 10Mbps Ethernet interface for NVS410
- **10/100BaseT:** 10/100Mbps Ethernet interface for NVS440, NVS440R
- **DC12V:** DC 12V power supply to the unit
- **ALARM IN/OUT & RS-485 Connector:** Interfaces for alarm inputs and outputs, and PTZ devices
- **VIDEO-IN:** Interface(s) for analog CCTV camera or other analog video signals (TV, DVR, etc.)
- **Terminator:** Switches only for NVS440, NVS440R, normally at 'up (on)' position, whereas 'down (off)' when additional video device connected
- **Factory Default Reset:** Reset to factory default configuration (Press and hold 3 seconds.)

2. Installation and IP allocation

The setup in this guide utilizes cross-over cable connection between the NVC units and installation computer as shown in figure 2-1 for easy installation and demonstration of basic feature sets. The NVC supports network configurations including LAN, ADSL modem, and cable modem including IP sharing devices. Use normal Ethernet cables in most cases unless connecting directly between installation pc and NVC.

2.1. Quick Installation Order

In order to check the functionality of the product, please follow the steps bellows:

? Connect the installation computer and the NVS product via a cross-over Ethernet cable.

? Install the IP-Installer program

? Assign IP address to the NVS product

2.2. Connecting PC and the Product

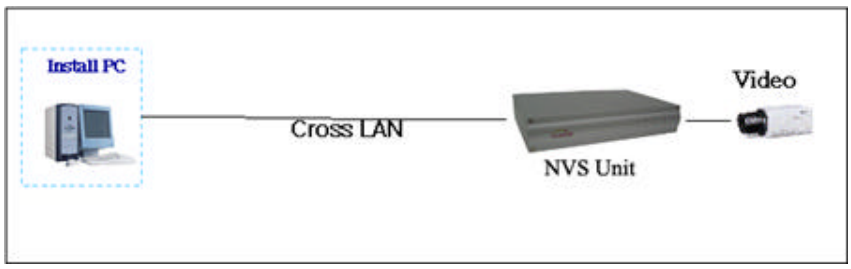


Figure 2-1 Connecting NVS product and PC by cross type LAN Cable

? Apply power to the installation PC and start the Windows OS.

? Apply power to the product and connect it to the installation PC with a cross-over LAN cable as shown in Figure 2-1.

? Video input: Connect the analog video signals to 'video-in' on the rear panel.

2.3. Installing and Running IP-Installer Program

In case there are many units to install and test, please use a hub to connect the PC and the products. (Use direct LAN cables when connected to a hub)

2.3.1 Installing IP-Installer Program

Insert the CD provided with the product into CD-ROM driver of the install PC and select "2. IP-installer Software \IPInstaller_V2_1_3_English \install.bat", the IP-Installer program will be automatically installed.

2.3.2 Running IP-Installer Program

? Double-click the IP-Installer icon ( ) to start the IP-Installer.

If using Window98SE, press "Refresh" button after starting the IP Installer to find a screen as shown in Figure 2-2.

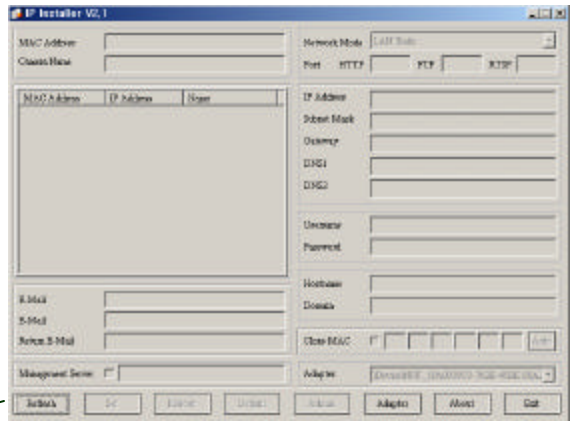


Fig 2-2 Initial mode of IP-Installer

? Network Adapter Selection on Window 2000 or XP

In case of Window 2000 or XP, the PC will ask you to select proper network adaptor as in Figure 2-3. It is important to select the right packet driver for the network adaptor. If the PC is configured to support more than one network (e.g., various MODEM, IEEE1394, etc), the PC can crash by selecting wrong packet driver. Click on a network adaptor to highlight then press OK. Figure 2-3 shows a case of Ethernet adaptor, which is Intel's "PRO/100 VE".

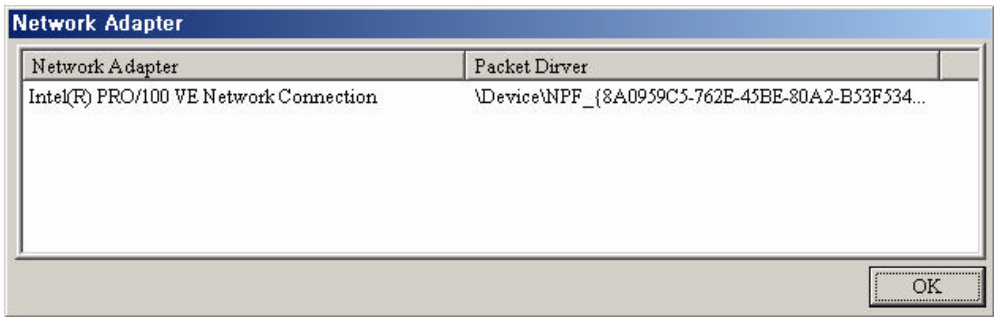


Fig 2-3. Network Adapter Screen Mode

? Click "Refresh" as in Fig 2-4 and check whether the MAC address that appears on the screen matches the one at the bottom of the physical unit. In rare cases it does not match; please contact your authorized sales agent.

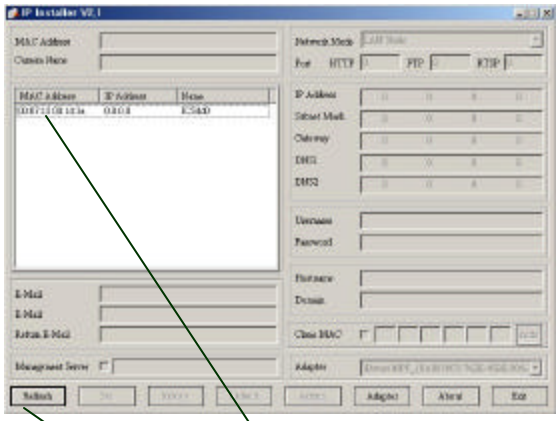


Fig 2-4 IP Installer's Initial Mode

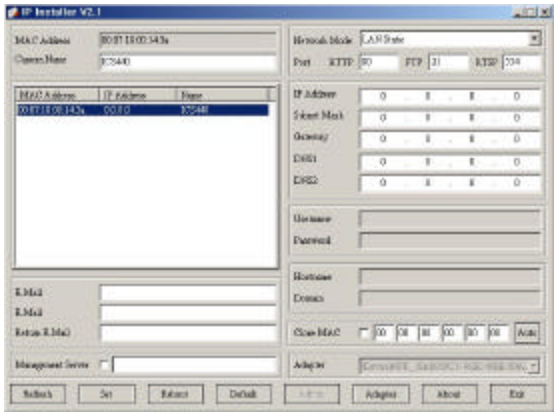


Fig 2-5 Mode after double-click of MAC Address

? Double-click the MAC address on IP-Installer. Default network setup parameters are shown on the right side of the screen as shown in Fig 2-5.

2.4 Setting IP Address

According to the combinations of network type and IP assignment methods, "Network Mode" can be "LAN Automatic", "ADSL Static", "ADSL Automatic", "Cable Modem Static", or "Cable Modem

Automatic". Settings can vary depending on this "Network Mode".

This Guide will explain only "LAN Static" mode in which the PC and the product is directly connected by a cross-over type LAN cable.

> Please refer to the user manuals in the CD in the box for detail information on network modes besides "LAN Static".

LAN Static

Fixed IP is required in "LAN Static" mode. Select "LAN Static" and insert "IP address" and "subnet mask" as shown in Fig 2-6.

Subnet values of both the install PC and the product must be consistent and only the last portion of IP addresses of them should be different. (e.g. PC: 211.52.88.210, Product: 211.52. 88.200)

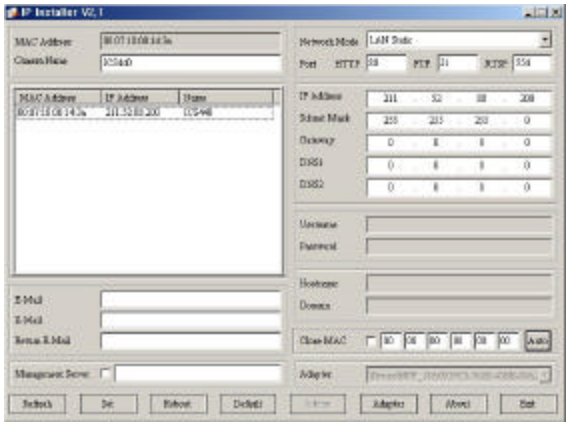


Fig 2-6 Network Setting for LAN Static

2.4.1. Completing IP Address Setting

After setting up all the parameters click on the "Set" button. You will see the following message:

"**All values will be saved, and your server will be restarted; Continue?"**

Click "Yes" button to save all the values. The unit will be rebooted.

3. Accessing to the Product and Checking Basic Function(Viewing)

When IP setting is done with the IP-Installer, you must check whether the video stream is transmitted from the unit. There are two ways to check the video transmission from the unit.

- Using NVR100, the stand-alone software for multi-channel viewing and recording
- Using the conventional web browser (Internet Explorer)

3.1 Accessing by NVR100 Program

3.1.1 Installing NVR100 and Running it

Insert the installation CD in the CD-ROM drive of the PC and select "NVR100.exe" located in "NVR100 Software " directory. The NVR100 program will automatically be installed.

3.1.2 Running NVR100 Program

? To start the program Double-click the icon,  . This will launch the NVR100 program as shown in Fig 3-1 .

? The NVR100 is designed to display 16 channels simultaneously. The user can customize the display mode as the need arises.

Fig 3-1 NVR100 Initial Mode

? Click "Camera Assignment" button located at second to the left bottom tool bar. IP assignment screen will display as shown in Fig 3-2. "Camera Assignment" can be selected also by clicking the right button of the mouse. As in Fig 3-2, insert IP address, channel, user IP (default: root), password (default: dw2001) and click , then the values set will be saved. (Please make sure that "Store Pwd" is checked before clicking . Otherwise, the values will not be saved.)

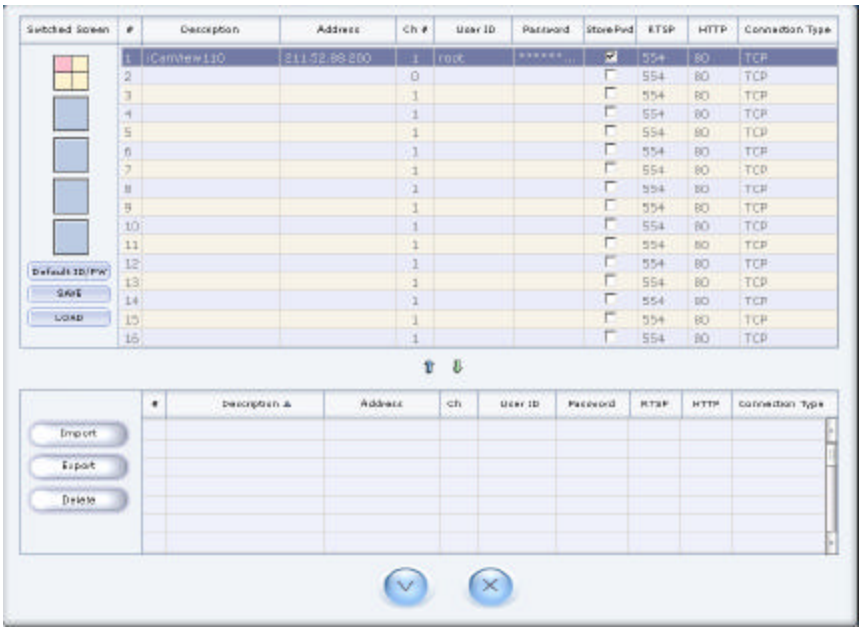


Fig 3-2 NVR100 IP Address Setting Mode

? Click the start button,  , then the live video connected to the unit will be transmitted and shown as in Fig 3-3.

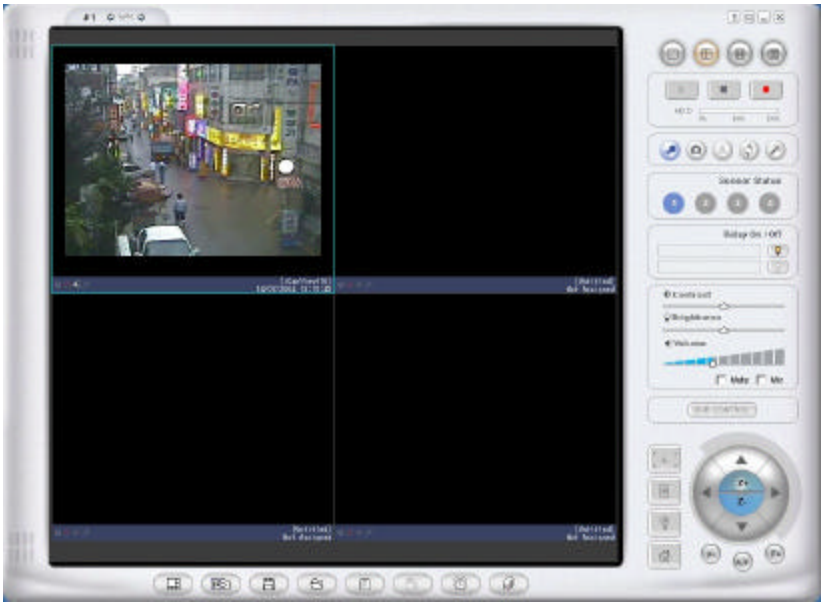


Fig 3-3 Showing Live Images via NVR100

Please refer to the NVR 100 user manual for more information.

3.2 Accessing by Browser

This unit is designed to be accessed via your favorite web browser in addition to the NVR100. In order to access the unit through the web browser, you must type in the appropriate IP address. Fig 3 -4 is an example of accessing the unit via the browser.

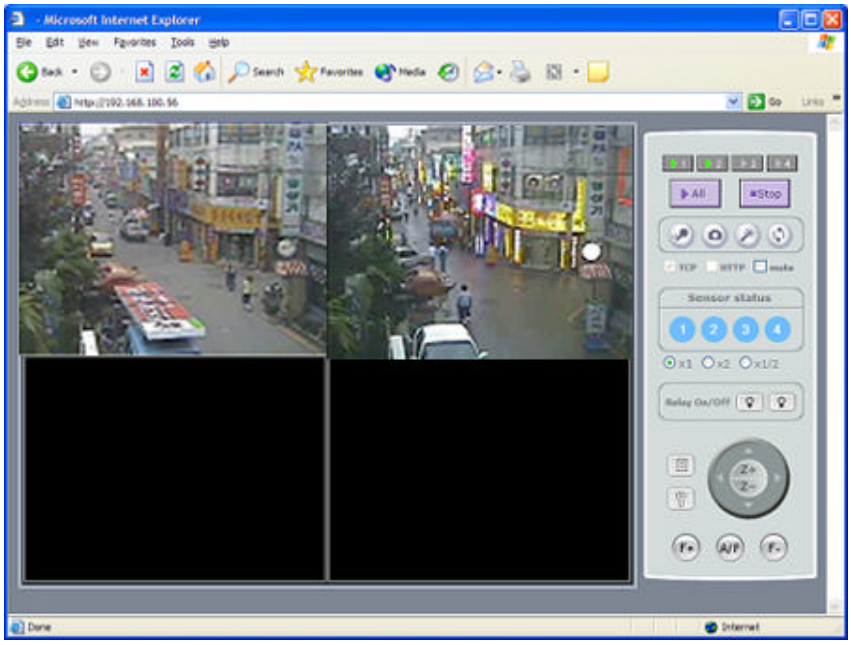


Fig 3 -4 Viewing the Live V ideo via Web Viewer