Installation Wizard 2 User's Manual

🖷 Installation Wizar	d 2		X
Device Selection	on	Installa	tion Wizard 2
Select a device to	setup or upgrade	instana	Hon means a
Smart Setup Refresh Devices	MAC 00-26-18-57-59-17 10-78-D2-A7-D1-88 00-02-D1-0B-7E-CD 00-02-D1-0C-C3-98	IP Address 192.168.4.115 192.168.4.123 192.168.4.157 192.168.4.153	Model VAST VAST IP8161 IP8330
Upgrade Firmware(s) Restore Default About IW2	Please check the MA product label of your Then, you can start to show the main screer item in the above sel If you are not able to above selection list, p cables are properly c and then click on the button.	C and model name in the device first. b link to your device and n by double clicking the ection list. find your device in the please make sure all connected to your device "Refresh Devices"	Network Camera Version Model NO: PT7137 COSCO O MAC: COOQDIXXXXXA MAC: COOQDIXXXXXA MAC: COOQDIXXXXXA MAC: COOQDIXXXXXA MAC: COOQDIXXXXXA MAC: COOQDIXXXXXA MAC: COOQDIXXXXA MAC: COOQDIXXXA MAC: COOQDIXXXXA MAC: COOQDIXXXA MAC: COOQDIXXXXA MAC: COOQDIXXXXA MAC: COOQDIXXXA MAC: COOQDIXXXXXA MAC:

Rev. 1.1, July, 2011

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Revision History

Rev. 1.0: Initial release.

Rev. 1.1: Updated description for CD autorun program, supported ASCII code, and wireless connection processes.



Chapter 1 Installation

1.1 Software Installation

The following are steps for the software installation.

STEP 1: Put the Installation disk into your optical drive, and the product utilities autorun should start automatically.



Figure 1-1 Installation Wizard 2 Installation Window

If the installation does not start, click on the "Start" button to unfold at the lower left corner of your Windows desktop, open "My Computer" and double-click on the optical drive icon. The auto run screen should appear as shown above. Click on Software Utilities.

Installation Wizard 2 will be shorted as **IW2** in the following discussions throughout this document.



STEP 2: Click on Installation Wizard 2 on the Software Utilities menu.



Figure 1-2 Software Utilities Window



STEP 3: Click on Installation Wizard 2 to start installation.

Figure 1-3 Installation Wizard 2 Window



📴 Installation Wizard 2 Setup: License Agreement	
Please review the license agreement before installing Installation Wizard 2.	
End-User License Agreement	
IMPORTANT - READ CAREFULLY	
This End-User License Agreement (the "Agreement") is a legal agreement between you (either an individual of an entity) and VIVOTEK INC. ("VIVOTEK") regarding the use of the VIVOTEK's software, entitled Installation Wizard 2, version 1.1.0.11, which may include user documentation provided in "online" or electronic form (the "Software"). By clicking the button marked "I ACCEPT" or "YES" below, you agree to be bound by the terms of this Agreement. If you do not agree to the terms of this	
Agreement, please do not install or use the Software.	
Cancel Nullsoft Install System v2.31	

Figure 1-4 Installation Wizard 2 Installation Window

STEP 4: The License Agreement page will prompt. Please read the license agreement first, and then click on "I Agree" to continue the installation process. The Installation Options page will prompt as shown below. The "Create shortcut on desktop" checkbox is selected by default. Deselect the checkbox if you do not prefer a desktop shortcut. Click on the "**Next**" Button to proceed.

🚰 Installation Wizard 2 Setup:	Installation Options 📃 🗖 🔀			
Check the components you want to install and uncheck the components you don't want to install. Click Next to continue.				
Select components to install:				
Space required: 6.2MB				
Cancel Nullsoft Install System v2,31 < <u>B</u> ack <u>N</u> ext >				

Figure 1-5 Select components to install

STEP 5: Select the installation directory for this application software and click on "Install" button. You can also change the installation directory using the "Browse…" button. Click on the "Install" button to continue.



🥵 Installation Wizard 2 Setup: Installation Folder 🛛 🔲 🔀
Setup will install Installation Wizard 2 in the following folder. To install in a different folder, click Browse and select another folder. Click Install to start the installation.
Destination Folder C:\Program Files\Vivotek Inc\Installation Wizard 2 Browse
Space required: 6.2MB
Space available: 25.4GB
Cancel Nullsoft Install System v2.31 < <u>B</u> ack Install

Figure 1-6 Destination Location for Installation

STEP 6: The installation will start and a progress bar will display on the dialog. Click on the "Close" button when the process is completed (Figure 1-7).

🥵 Installation Wizard 2 Setup: Completed	K
	1
Show <u>d</u> etails	
Cancel Nullsoft Install System v2,31 < <u>B</u> ack Close	,

Figure 1-7 Installation is Completed



You may also download the latest revision of IW2 from VIVOTEK's website.



Chapter 2 Using Installation Wizard 2

2.1 User Interface



Figure 2-1 Analyze network environment

The Installation Wizard 2 automatically analyzes and categorizes your network environment into 6 typical types. They include: Private fixed IP, Private DHCP, PPPoE, Public fixed IP, Public DHCP and No Connection to Internet. Once you run the Installation Wizard 2 program, it will first analyze your network and display your network environment type as shown above. For example, if there is a DHCP server on your LAN, using DHCP function to set up the device is easier than the other options.



Click on the "**Next**" button to continue. After a brief search, the Device Selection window will prompt as shown below.

Every network cameras connected in the local network will be listed if DHCP service is present and they are assigned with IP addresses.

On this window, most of the functional buttons will not be available until you click to select a camera from the list. Select a camera and click on the double-arrow button to display more functional buttons on the left of the screen. They include: "Manual Setup," "Access Information," "Upgrade Firmware(s)," "Restore Default" and "About IW2" (Figure 2-3).

🖷 Installation Wizard 2			
Device Selection Select a device to s	1 setup or upgrade	Installa	tion Wizard 2
Smart Setup Refresh Devices	MAC 00-02-D1-05-AD-D3 00-02-D1-11-55-66 00-AB-CD-AB-CD-EF	IP Address 192.168.5.128 169.254.0.99 192.168.5.141	Model 75333 1727151 FD7131
	Please check the MAC at product label of your dev Then, you can start to lin show the main screen by item in the above selecti If you are not able to find above selection list, plea cables are properly conr and then click on the "Re button.	nd model name in the vice first. Ik to your device and v double clicking the ion list. I your device in the use make sure all nected to your device efresh Devices"	Network Camera VIVOTEK Model NO: PT137 C 0560 O MAC: 002D1XXXXX MAC: 002D1XXXXXX MAC: 002D1XXXXXX MAC: 002D1XXXXXX MAC: 002D1XXXXXXX MAC: 002D1XXXXXXXXX MAC: 002D1XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

Figure 2-2 User interface of Installation Wizard 2

IW2 allows you to setup one device at one time and upgrade the firmware of multiple devices (of the same model) at the same time. You can use the Shift key and left mouse click to select multiple cameras. If you selected different models, then the "**Upgrade Firmware(s)**" button will be disabled.



🖷 Installation Wizard	12		
Device Selectio Select a device to	n setup or upgrade	Installa	tion Wizard 2
Smart Setup Refresh Devices	MAC 00-02-D1-05-AD-D3 00-02-D1-11-55-66 00-AB-CD-AB-CD-EF 00-02-D1-11-7A-4A 00-26-18-57-59-17	IP Address 192.168.5.128 169.254.0.99 192.168.5.141 192.168.4.129 192.168.4.117	Model Image: Constraint of the second s
*			
Access			
Upgrade Firmware(s) Restore Default	Please check the MAC product label of your d Then, you can start to I show the main screen I item in the above scleer	and model name in the evice first. ink to your device and by double clicking the trian lict	Network Camera VINOTEK Model NO: PT7137 (© 0560 () MAC:0002D1XXXXXX
About IW2	If you are not able to fi above selection list, plo cables are properly con and then click on the "I button.	nd your device in the ease make sure all mected to your device Refresh Devices"	Contract of the second

Figure 2-3 IW2 with All Functional Buttons



You may also see **NR** (NVR) series, **VAST**, and **Matrix** stations on the IP list. However, their presence is for reference only. To access these stations, open a management session with their IPs using software utilities such as the LiveClient or PlayBack. The management stations running the 32-channel ST-7501 software are not shown on the IP list.



As shown below, functions provided with the IW2 can not apply to a VAST station.

Device Selection Select a device to	n setup or upgrade	Installa	tion Wizard 2
Smarl Setup Refresh Devices Marnual Setup	MAC UU-U2-U1-UU-C7-61 10-24-8C-33-32-C3 00-02-D1-11-7A-3D 00-02-D1 0F FC 84 00-02-D1-10-D8-FF 1U-78-U2-A7-U1-88 00-02-D1-11-58-71 00-1E-8C-3C-87-A1 00-02-D1-11-7A-5D	IP Address 192.168.4.122 192.168.4.134 192.168.4.134 192.168.4.138 192.168.4.138 192.168.4.114 192.168.4.114 192.168.4.106 192.168.4.105 192.168.4.107	Model JP8151 VAST IP8352 IP8162 VAST SD83X2 VAS1 P7R1X1 VAST IP8331
Access Information Upgrade Firmware(s) Restore Default About TW2	Please check the MAC product label of your of Then, you can start to show the main screen Item In the above sele If you are not able to f ubove selection list, pl cables are properly co and then click on the " button.	and model name in the levice first. link to your device and by double clicking the ction list. ind your device in the ease make sure all nnected to your device Refresh Devices"	Network Camera VINOTEX Mode No: F17137 VINOTEX MAC: 00020 12XXXXX MAC: 00020 12XXXXX MAC: 00020 12XXXXXX MAC: 00020 12XXXXXX MAC: 00020 12XXXXXX MAC: 00020 12XXXXXXX MAC: 00020 12XXXXXXX MAC: 00020 12XXXXXXX MAC: 00020 12XXXXXXXX MAC: 00020 12XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX



🖷 Installation Wizard 2	2		\mathbf{X}
Device Selectio Select a device to	n setup or upgrade	Installat	tion Wizard 2
Smart Setup Refresh Devices	MAC II 00-02-D1-05-AD-D3 1' 00-02-D1-11-55-66 11 00-AB-CD-AB-CD-EF 1'	P Address 92.168.5.128 69.254.0.99 92.168.5.141	Model
	Please check the MAC and product label of your device Then, you can start to link t show the main screen by de item in the above selection If you are not able to find yo above selection list, please cables are properly connect and then click on the "Refree button.	Double click to link model name in the e first. o your device and ouble clicking the list. our device in the make sure all ted to your device esh Devices"	to the selected device.

Figure 2-4 Refresh devices

The "**Refresh Devices**" button polls the local network for all connected cameras, video servers, and/or ST7501/VAST servers. Refreshing the device list will take several seconds.

If you want to establish a management session with a device, double-click on it, and a session on the IE browser will start.



2.1.1 Functional Buttons

🖷 Installation Wizard 2			\mathbf{X}
Device Selection Select a device to s	n setup or upgrade	Installa	tion Wizard 2
Smart Setup Refresh Devices	MAC 00-02-D1-05-AD-D3 00-02-D1-11-55-66 00-AB-CD-AB-CD-EF	IP Address 192.168.5.128 169.254.0.99 192.168.5.141	Model TC5333 IZ7151 FD7131
Manual Setup Access Information		Double cl	lick to link to the selected device.
Upgrade Firmware(s) Restore Default About IW2	Please check the MAC a product label of your de Then, you can start to li show the main screen k item in the above selec If you are not able to fir above selection list, ple cables are properly con and then click on the "F button.	and model name in the evice first. ink to your device and by double clicking the tion list. ad your device in the ease make sure all inected to your device Refresh Devices"	Network Camera Truck Mode No: PT713 C 0.560 () MAC: 0.0201XXXXX MAC: 0.0201XXXXXX MAC: 0.0201XXXXXX MAC: 0.0201XXXXXXXX MAC: 0.0201XXXXXX MAC: 0.0201XXXXXXXXXXX MAC: 0.0201XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

Figure 2-5 Function buttons



This function guides you through the important configuration steps using automated process tools.



Click on this button to modify the setting of the selected devices. For more details, please refer to Section 2.3 for more information





Click on this button to upgrade the firmware of the selected devices. For more detail, please refer to 2.5 Upgrade



Click on this button to get the access information, it will show you the IP Address information, DDNS information, UPnP Port Forwarding information, and PPPoE connecting information. For more detail, please refer to 2.4 Access Information.



Click on this button to restore the selected device to factory defaults.



Click on this button to get version information of the Installation Wizard 2.



2.2 Smart Setup

Click to select one or more devices in the selection list, the "**Smart Setup**" button will be enabled. Click on it to configure the settings of the selected device. The IW2 will attempt to connect to the selected device.

If user name and password have been configured on the device (network camera), a confirm box will prompt. Enter User name and Password for access to the device. If you fail three times, the IW2 will display a warning message and abort the connection.

Connecting to the device 00-02-D1-11-55-66			
Please en	ter the administrator password:		
User name:	root		
Password:	****		
ОК		lancel	

Figure 2-6 Authentication Dialog Window



Figure 2-7 Authentication error



2.2.1 System Setup

Once connected to the device, the IW2 will display the system setting page.

🥶 Installation Wizard 2 - Se	tup Your Device
General Settings System setup	Installation Wizard 2
Step 1>> System	Step 2>> DDNS
	System setup
	Hostname: Mega-Pixel Network Camera
	Administrator
	User name: root
	Password:
	Confirm password:
	For security consideration, you can assign the hostname and administrator password for your device. Anyone who does not have correct password cannot access the device. If you forget your administrator password, your device must be restored to default settings.
The second second	
Cancel	Next



Cancel

Click to cancel the setup progress.

Next

Click to keep the present setting and proceed.



2.2.2 Change Host Name

The "**Hostname**" is displayed on a device's web browser homepage and on the title bar with every video feeds from the device. The maximum string length is 40 characters or 13 characters in double-byte-character- systems like Chinese or Japanese. Although some cameras support Unicode, the maximum string length depends on the characters you enter, and the actual length may be less than 20 alphabetic characters. A warning message will prompt if you enter invalid characters that are not supported by the ASCII code.



Figure 2-9 Host Name Error Message

2.2.2.1 Change root password

To change the administrator's password, type identical passwords in both **"Password"** and **"Confirm Password"** text boxes. The maximum length of password depends on the camera you connected. A warning message will prompt if you enter invalid characters that are not supported by the ASCII code. When done, click on the Next button to proceed. The User name for the administrater login is "root," and **can not** be changed.



2.2.3 PPPoE Setting

During the initiation process the IW2 automatically analyzes your network environment, and will prompt you for configuring PPPoE connection. If you attach cameras to a local area network, the PPPoE prompt might not appear.



If your network connection is made via PPPoE, click Yes to begin configuration.

🖷 Installation Wizard 2 - Se	etup Your Device 🛛 🔀
Internet Account Se Enter your Internet acc	ettings count information Installation Wizard 2
Step 1>> System	Step 2>> PPPoE settings
	PPPoE usemame: T0461239
	PPPoE password:
	Please enter the username and password provided by your ISP (Internet Service Provider) to connect to Internet by PPPoE.
	You can click on the "Test" button to verify the provided username and password.
Cancel	Back Next

- 1. On the Internet Account Settings page, enter PPPoE username and PPPoE password distributed to you by your ISP.
- 2. You can use the **Test** button to verify the connectivity via PPPoE.



Verify PPPoE Username and Password	X
The device is connecting to cable/DSL modem to verify the username and password. Please wait a moment.	
Elapsed time : 0:00:03	

The IW2 will try to connect via the cable/DSL modem with your ISP server.

3. Upon successful connection, the following message will prompt.

🖷 Installation Wizard 2 - Setup Your Device	×
Internet Account Settings Enter your Internet account information	Installation Wizard 2
Step 1>> System 🕼 Step 2>> PPPol	E settings
PPPoE username:	T0461239
PPPoE password:	****
Please enter the Service Provider Yenity PPP	username and password provided by your ISP (Internet) to connect to Internet by PPPoE. OE Username and Password X Jsername and password are correct.
Gancel	確定 Back Next

4. Continue your configuration using the Next button.

If PPPoE service is not valid or you entered the wrong user name/password, the following message will prompt. Consult your ISP for correct PPPoE setup.





2.2.4 DDNS Setting

🥶 Installation Wizard 2 - Se	tup Your Device					×
DDNS Settings			notal	latic	Min	and 2
Setup a domain name	for device to be ac	ccessed o	n the Interne	iauc		
Step 1>> System	Step 2>> DDN	s				
	Enable DDNS					
	Registration In	formation	1			
	Hostname:	уу945		.safe100	.net	
	E-mail address:	liya.liu@vi	votek.com]		
	Key:	••••		Forge	t Key	
	Confirm key:	••••]		
	Hide Advanced S	ettings				
	-Service Provid	er				
	safe100.net				* Use custom se	erver only
	Custom DDN	S server			when you are t so. Please cont	old to do tact your
	Server name	/address:	rs1.safte1000).net	retailer for mor	re details.
- 9	Domain nam	e:	safe100.net	l]	
1 2						
THE ALL						
Cancel					Back	Next

Figure 2-10 DDNS Setting

The DDNS (Dynamic Domain Name Service) is a method of keeping a domain name mapping to a dynamic public IP address. In many cable/DSL connections, a dynamic public IP address is assigned for every connection request. After you set up your DDNS service, the DDNS service provider will automatically update your connection information if the public IP address has been changed.

You have to enter the "Host name", "E-Mail address", "Key" and "Confirm key" to initiate the DDNS. The "Host name" should be 1 to 64 character(s) long, and the "E-Mail address" will be used to receive some DDNS



information, please enter a valid e-mail address.

If you have a fixed public IP, or you don't plan to access the camera via Internet, you may deselect the "**Enable DDNS**" checkbox to disable the DDNS function.

Forget Key

If you forgot your DDNS key (password), you can enter the Hostname and E-mail address first, and then click on the "Forget Key" button. The forgotten key will be delivered to you via an e-mail by the DDNS provider.

Register DDNS

Make sure the host name has not been registered before, you should click on the "Register DDNS" button to proceed.

The DDNS provider usually has a minimal time interval between registrations. For the Safe100.net server, the interval is about 10 minutes. If the host name has already been used, the following messages will prompt.

Register I	DNS	\mathbf{X}
The wiz	ard is trying to register the DDNS for you.	
	Elapsed time : 0:00:03	
Register	DDNS failed	X
()	Hostname is already in use. Please choose another one and tr	y again.
	確定	

Advanced Information

If you want to use another DDNS server provider other than safe100.net, you can click on "Advanced Information" to change the DDNS provider. There are two check circles for service providers in the advanced setting, one is saf100.net (by VIVOTEK) and another is Custom DDNS server. If you choose the Custom DDNS server, you have to manually enter the Server address and



the DDNS domain name as shown below. You can then click the Next button to proceed.

Installation Wizard 2 - Setup Your Device	
DDNS Settings Installation Wiz	ard 2
Step 1>> System Step 2>> DDNS Step 3>> Wireless	
I Enable DDNS	
Registration Information	
Hostname: pz81x1 .DynDNS-ip.com	
E-mail address: kenny@vivotek.com	
Key: ••••••	
Confirm key:	
Hide Advanced Settings	
Service Provider	
Safe100.net * Use custom s	server only
Custom DDNS server when you are so. Please cor	told to do ntact your
Server name/address: retailer for mo	ore details.
Domain name: DynDNS-ip.com	
Contraction of the second s	
Cancel Back	Next

Figure 2-11 Advanced DDNS Setting

When successfully registered to a DDNS provider, the following messages will prompt:

Register DDNS	X
The wizard is trying to register the DDNS for you.	
Elapsed time : 0:00:03	





2.2.5 Mobile Access

After you finish the DDNS setting, click on the Next button, and if your camera supports mobile viewer and you want to access the device via a mobile phone, you can enable the "Mobile Access" by clicking on the Yes button. The IW2 will prompt for a change of settings for streaming videos to a mobile device:

- 1. <u>Video</u>: The video codec will be set to MPEG-4, and the resolution will be reduced to 176x144 pixels.
- 2. Audio: The audio codec will be set to AAC.

Mobile Access Setup
Do you want to access the device by mobile phone? If you click on the "Yes" button, the video resolution of the device will be set to 176x144.

Figure 2-12 Mobile Access

2.2.6 Wireless Setting



Figure 2-13 Wireless Setting Confirm Box

The above message will prompt **ONLY** when you are working with a model that comes with wireless connection capability. It allows you to configure the wireless connection setting. Click Yes, and you will enter the Wireless configuration screen. The IW2 borrows wireless camera's networking capability to detect and accomplish wireless configuration. No wireless adapter card is



required on your PC running the IW2 utility when using the Smart Setup function.

After a brief search, all reachable APs at the network camera's installation site will be listed. Their key information, including SSID (Service Set Identifier), mode, Channel, Encryption, and Signal Length will also be detected.

Site Survey	\mathbf{X}				
The device is doing site	survey.				
Elapsed time: 0):00:07				
🥶 Installation Wizard :	2 - Setup Your Devi	e			×
Wireless Settin Setup wireless co	igs nfiguration for yo	ur device	allatio	on Wi	izard 2
Step 1>> System	🚯 Step 2>> DDNS	💮 Step 3>>	Wireless		
	SSID Guest ViewSonicOnTop Guest KaiChun78 ASUS dlink825 ANDY_officeAP ◀ Select the wirel Click on the ''Ro Refresh	Mode Infrastructure Infrastructure Infrastructure Infrastructure Infrastructure Infrastructure Infrastructure Infrastructure	Channel 11 11 08 06 06 03 01 700 would l n to rescar	Encryption - - WEP - - WPA2 Auto - WEP ike to use. n if it is no	Signal Length 69% 65% 41% 47% 43% 49% 57% 53% 53%
Cancel				Back	Next

Figure 2-14 Wireless Setting





Click to select a preferred AP and click Next to proceed. Click Yes to connect to a wireless AP.

Wireless	Connection Testing
2	Do you need to switch to WLAN connection now? Press "Yes", then your device will try to connect to the AP.
	Yes No

You will be prompted if WEP or WPA-PSK encryption key is required.

WEP Authenticatio	n		×	
Network key:				
		Cancel	ок	
WPA Authenticatio	on			×
Pre-shared key:				

Figure 2-15 Wireless Access Authentication



Depending on the quality of your wireless connections, you may need to retry the connections.





When successfully connected, the below message will be displayed.

🖷 Installation Wizard 2 -	Setup Your Device	×
Wireless Connect Please follow the ins	tion Status Atructions Installation Wizard 2	
Step 1>> System	Step 2>> DDNS 🚯 Step 3>> Wireless 🚯 Step4>> Wireless Status	
	Successful! Your device has connected to your wireless AP.	
	Please unplug your Ethernet cable and click on the "Next" to continue.	
Cancel	Back	

Figure 2-16 Wireless Connection Success Information



If the connection fails, a different message will display.



Figure 2-17 Wireless Connection Failed

When the wireless connection is successfully made, you can unplug your LAN cable. Click Apply on the following screen to end the Smart Setup process.

🖳 Installation Wizard	12 - Setup Your Device	×
Apply Settings Apply settings to	s Installation Wizard	2
Step 3>> Ports	🚯 Step 4>> DDNS 🚯 Step 5>> Wireless 🚯 Step 6>> Apply	• •
	Please check the following settings.	
	System/Date/Time	
	Network	
	Ports	
	DDNS	
	Wireless	
	If you would like to change the above settings, please click on the "Back" button.Click on the "Apply" button to apply the settings to the device	÷.
Cancel	Back Appl	y I

Figure 2-18 Apply Settings





Apply Settings	\mathbf{X}
Applying settings to the device is in progress, please wait for a few minute	es.
Elapsed time: 0:00:41	

The Apply process will take several seconds. Your network camera will automatically reset during the process.

Apply Settings Status	
٩	Applying settings to the device succeeded!
	ок

The Access Information page will prompt, showing access links to the network camera.

똌 Installation Wizard 2	2 - Access Information	×
Access Informa	tion Installation Wizard	2
Access the device	everywhere Installation wizard	4
	Click the links below to access the device.	
	Access Information Access from Home: <u>http://192.168.4.131</u>	
	Access from Internet: http://111.240.148.133:8080	
	Access from Cellphone: rtsp://iii.240.148.133:554/live2.sdp	
	Add to my favorite Export to desktop Advanced information	
	Exit	

Figure 2-19 Access Information



The **Access from Home** provides an access link from the PC where you run the IW2 to the network camera.

The **Access from Internet** provides an access link to the network camera via Internet.

The **Access from Cellphone** provides an access link to the network camera's MPEG4 video stream. The default is using stream #3 in MPEG-4 format, which is usually set as a minimized-size streaming for remote monitoring via 3GPP-compatible cell phones or other mobile devices. Running over the RTSP protocol, it should be noted that most players on cell phones do not support RTSP authentication. The firmware default for RTSP authentication is disabled.

Error Messages:

Some error messages might appear due to network problems or inappropriate configuration. Shown below are the messages and suggestions to resolve the problems:



DHCP service is not present in your local network.

Consult your network administrator for correct configuration. If you need to utilize a direct connection with a PC using a cross cable, the default password for a VIVOTEK network camera is <169.254.0.99.> If there are multiple cameras in your network, they will be assigned with addresses starting from 169.254.0.99, and the IP addresses will be determined by the MAC address of each camera. A camera that comes with a larger MAC address number will be assigned a larger IP address number.



You router does not have specific ports opened for routing access from Internet via UPnP ports. Consult your network administrator for more information.



Access w	arning 🔀
i	IP may be changed after reboot. You can set up DDNS on DDNS page to solve this problem.
	ОК

Figure 2-20 Error Messages

This message might prompt if you use PPPoE configuration and the IP has changed after a system reboot. You may use DDNS service to replace the non-static IP.

Preserving Access Information

Add to My Favorite: The access links created by IW2 will be added to your IE browser's favorites.



- Access Device From Home
- Access Device From Internet
- 🖉 Access Device From Mobile

Figure 2-21 Access Information Saved to My Favorites

Export to Desktop: An HTML file containing the access links will be placed on your desktop. Double-click to open the HTML record.

Export to	o desktop 🛛 🔀	
j,	HTML access files had been created on your desktop.	VIVO ce_00 B+



🕒 🕤 🗢 🚺 C:\Docum	nents and Settings\liya.liu\WIVOTEKDevice_0	0-02-D1-0B-80-2B.html	💌 🛃 🗙 🚼 Google
吕 🔻 🔧 Google	🏈 Access your camera 00-0	2 ×	🟠 • 🗟 · 🗆 👼 •
		Access your camera 00-02-D1	-0B-80-2B
	Access from Home	http://192.168.14.187	
	Access from Internet	http://59.120.3.16:8080	

Figure 2-22 Access Information in HTML

Advanced Information: Hexadecimal or ASCII.

Advanced information	
Network type:	DHCP
UPnP port forwarding status:	Disabled
	8080, 554, 5556, 5557
DDNS status:	Disabled
PPPoE status:	Disabled
Wireless status:	Your device does not support wireless.

Figure 2-23 Advanced Information

Click on the Advanced Information button to reveal more information about the current connection settings.



2.3 Manual Setup

Write down the fixed IP or the IP address acquired through a DHCP service for your camera before you proceed. This IP will be necessary if you need to configure **wireless** network connections afterwards.

When you select one device in the selection list, the "**Manual Setup**" button will be enabled. Click on it to modify the settings of the selected device. The IW2 will attempt to connect to the selected device.

If user name and password have been configured on the device, a confirm box will prompt. Enter User name and Password for access to the device. If you failed three times, the IW2 will display a warning message (see below) and abort the connection.

Connecting to the device 00-02-D1-11-55-66		
Please en	ter the administrator password:	
User name:	root	
Password:	****]
ОК		Iancel

Figure 2-24 Authentication Dialog Window





Figure 2-25 Authentication error

2.3.1 System Setting

After connected to the selected device, the Installation wizard 2 will switch to system setting page as shown in Figure 2-26.



Installation Wizard 2 - Se	etup Your Device
General Settings	Installation Wizard 2
System, date, and time	setup
Step 1>> System	
	System setup
	Hostname: VIVOTEK IZ7151 Network Camera
	Administrator
	User name: root
	Password: *
	Confirm password: *
	Date: 2008/ 1/21 💌
	Time: 17:19:54 (hh:mm:ss)
	⊙Keep current date and time
	O Synchronize with computer time
	◯ Set date and time manually
	○ Synchronize to network time server automatically
	For security consideration, you can assign the hostname and administrator
	cannot access the device. If you forget your administrator password, your
	device must be restored to default settings.
Cancel	Next

Figure 2-26 System setting page

Cancel	
Click to ca	ncel the setup progress.

Next

Click to keep the present setting and proceed.

2.3.1.1 Change Host Name

The "**Hostname**" is displayed on a camera's web browser homepage and is displayed on the title bar with every video feeds from the camera. The maximum string length is 40 characters or 13 characters in double-byte-character- systems like Chinese or Japanese. Although some devices support Unicode, the maximum string length depends on the



characters you enter, and the actual length may be less than 20 alphabetic characters. A warning message will prompt if you enter invalid characters that are not supported by the ASCII code.

Username Еггог	
(į)	The content of hostname is incorrect, contains invalid characters:", ', <, >, &
	確定

Figure 2-27 User Name Error Message

2.3.1.2 Change root password

To change the administrator's password, type the new password in both **"Password"** and **"Confirm Password"** text boxes identically. The maximum length of password depends on the server you connected. A warning message will prompt if you enter invalid characters that are not supported by the ASCII code. The default administrator name is "root," and this name can not be changed.

2.3.1.3 Adjust date and time

Date/Time setup	
Date: 2008/ 1/21 💌	
Time: 17:21:17 (hh:mm:ss)	
⊙Keep current date and time	
O Synchronize with computer time	
◯ Set date and time manually	
Synchronize to network time server automatically	

Figure 2-28 Date/Time setup

There are three ways to adjust system date and time:

1. **"Synchronize with computer time"**: The easiest way is to make device synchronized with the computer running IW2.



- 2. "Set date and time manually": Set the date and time manually by entering new values. Notice the format in the related field while typing.
- 3. "Synchronize to network time server automatically": Make device automatically synchronized with time servers over the Internet every hour. Note that the NTP time server setting is made through a browser management session with the network camera. The configuration is found in System -> System Time -> NTP server.

If you want to keep the current date and time, please choose "Keep current date and time".

2.3.2 Network Setting

The IW2 can help you setup the network connection with LAN or PPPoE. After you clicked on the "**Next**" button from the System page, the IW2 will prompt you for making the PPPoE setting (Figure 2-29). If you want to connect your network camera to Internet via PPPoE, please click on "**Yes**" to start the PPPoE setting process, or click on "**No**" to invoke the LAN setting.

If you accidentally click Yes while you do not want to set up network on PPPoE, close the General Settings window and start again.



Figure 2-29 Choosing the network type


2.3.2.1 PPPoE Setting

🖷 Installation Wizard 2 - Setup Your Device	×
Internet Account Settings Enter your Internet account information	Installation Wizard 2
Step 1>> System Step 2>> PPPoE Setting	
PPPoE username:	
PPPoE password:	
Please enter the us Service Provider) to	ername and password provided by your ISP (Internet connect to Internet by PPPoE.
You can click on the password.	• "Test" button to verify the provided username and
Test	
Cancel	Back Next

Figure 2-30 Network Setting for PPPoE

If you click on **"Yes"** in the "Network Type" dialog, you will enter the PPPoE setting page. Enter **"PPPoE username"** and **"PPPoE password"** provided by your Internet Service Provider. If you do not know the account information, please contact your ISP. After entering the account information, please click on the **"Next"** button to continue.

The maximum length of user name is 128 characters and 64 for the password. A warning message will prompt if you enter invalid characters that are not supported by the ASCII code.

During the initiation process the IW2 automatically analyzes your network environment, and will prompt you for configuring PPPoE connection. If you



attach cameras to a local area network, the PPPoE prompt might not appear.



If your network connection is made via PPPoE, click Yes to begin configuration.

🖷 Installation Wizard 2 - Se	etup Your Device 🛛 🔀
Internet Account S Enter your Internet acc	ettings Installation Wizard 2
🚯 Step 1>> System	Step 2>> PPPoE settings
	PPPoE username: T0461239
	PPPoE password:
	Please enter the username and password provided by your ISP (Internet Service Provider) to connect to Internet by PPPoE.
	You can click on the "Test" button to verify the provided username and password. Test
Cancel	Back Next

- 1. On the Internet Account Settings page, enter PPPoE username and PPPoE password distributed to you by your ISP.
- 2. You can use the **Test** button to verify the connectivity via PPPoE.

Verify PPPoE Username and Password	\times
The device is connecting to cable/DSL modem to verify the username and password. Please wait a moment.	
Elapsed time : 0:00:03	

The IW2 will try to connect via the cable/DSL modem with your ISP server.

3. Upon successful connection, the following message will prompt.



Installation Wizard 2 - Se	tup Your Device		X
Internet Account Se Enter your Internet acc	ettings ount information	Installation	Wizard 2
Step 1>> System	🛐 Step 2>> PPPoE	settings	
	PPPoE username:	T0461239	
	PPPoE password:	*****	
	Verify PPPo	username and password provided to connect to Internet by PPPoE. DE Username and Password 文 we mame and password are correct. 確定	by your ISP (Internet
Cancel			Back Next

4. Continue your configuration using the Next button.

If PPPoE service is not valid or you entered the wrong user name/password, the following message will prompt. Consult your ISP for correct PPPoE setup.





2.3.2.2 LAN Setting

If you click on "**No**" in the "Network Type" dialog, you will enter the Network Setting page. In this page, you can manually enter a static IP, subnet mask, default gateway, primary DNS server, and secondary DNS server. Please consult your network administrator for networking information.

🖷 Installation Wizard 2 - :	Setup Your Device		×
Network Settings Setup network configur	ration	Installation Wizard 2	
Step 1>> System	Step 2>> Network Setting		
	Get IP by DHCP Server au	tomatically	
	IP address:	60.248.39.146	
	Subnet mask:	255.255.255.240	
	Default gateway:	60.248.39.145	
	Primary DNS server:	168.95.1.1	
	Secondary DNS server:	192.168.0.20	
Cancel		Back Next	

Figure 2-31 Network Setting for LAN

You can set up the network with DHCP or fixed IP:

- <u>DHCP</u>: Select the "Get IP by DHCP Server automatically" checkbox will force the device to renew its IP address whenever it reboots, and the related network configuration is provided by the DHCP server.
- Fixed IP: If you want the device to use a fixed IP, please deselect the "Get IP by DHCP Server automatically" checkbox and assign a valid IP address, subnet mask, default gateway and DNS server for the device.



2.3.3 Port Setting

If your device is located behind the router (such as private fixed IP or private DHCP) and you want to access the device through the Internet, your router must be configured first. The UPnP port forwarding will configure your router automatically, but if your router does not support UPnP, you need to manually configure the port numbers and port forwarding feature. The IW2 will detect whether your router support UPnP or not. If your router supports UPnP, IW2 will automatically select an apporpriate "UPnP port forwarding" configuration for you, otherwise it will recommend the "Manual" mode and you have to inspect those port numbers and make the port mapping on your router manually.



Figure 2-32 UPnP Port Forwarding Setting

You can manually enter a port number (1025~65535) for RTSP, RTP video,



RTCP video, or RTP audio ports. If you enter a port number not among the range from 1025 to 65535, an error message will prompt.

Invalid F	TSP Port
(į)	The RTSP port number must be 554 or within 1025 ~ 65535
	確定

Figure 2-33 Port Number Error Message

2.3.4 DDNS Setting

🖷 Installation Wizard 2 -	Setup Your Device		×
DDNS Settings		Instal	lation Wizard 2
Setup a domain name	for device to be a	ccessed on the Internet	
🕼 Step 1>> System	Step 2>> Network 9	ietting 👔 Step 3>> Po	ts Step 4>> DDNS
	🗹 Enable DDNS		
	-Registration Informa	tion	
	Host name:	VIVOTEK	.safe100.net
	E-mail address:	VIVOTEK@VIVOTEK.COM	
	Key:	•••••	Forget Key
	Confirm key:	•••••	Register DDNS
	DDNS (Dynamic name linked to a dynamic publi can setup your I your DDNS host	Domain Name Service a dynamic public IP ad ic IP address is assigne DDNS service here and name if the public IP a) is a method of keeping a domain dress. In many cable/DSL connections, d for every connecting request. You the device will automatically update ddress is changed.
Cancel			Back Next

Figure 2-34 DDNS Setting



The DDNS (Dynamic Domain Name Service) is a method of keeping a domain name mapping to a dynamic public IP address. In many cable/DSL connections, a dynamic public IP address is assigned for every connection request. After you setup your DDNS service, and then the device will automatically update your connection information if the public IP address has been changed.

You have to enter the "Host name", "E-Mail address", "Key" and "Confirm key" to initiate the DDNS. The "Host name" should be 1~64 character(s), and the "E-Mail address" will receive some DDNS information, please input your e-mail address carefully.

If you have a fixed public IP, or you don't plan to access the camera via Internet, you may deselect the "**Enable DDNS**" to disable the DDNS function.

Forget Key

If you forgot your DDNS key (password), you could input the Hostname and E-mail address first, and then click on the "Forget Key" button. The key will be sent to you via an e-mail by the DDNS provider.

Register DDNS

Make sure the host name has not been registered before, you should click on the "Register DDNS" to proceed.

The DDNS provider usually has a minimal time interval between registrations. For Safe100.net, it is about 10 minutes. If the host name has already been used, the following messages will prompt.

Register DDNS	X
The wizard is trying to register the DDNS for you.	
(1111	
Elapsed time : 0:00:03	



Register	DDNS failed 🛛 🔀
(į)	Hostname is already in use. Please choose another one and try again.
	確定

Advanced Information

If you want to use another DDNS server provider rather than safe100.net, you can click on "Advanced Information" to change the DDNS provider. There are two service providers in the advanced setting, one is saf100.net and another is Custom DDNS server. If you choose the Custom DDNS server, you have to manually enter the Server address and the DDNS domain name as shown below.

🖷 Installation Wizard 2 - 9	Setup Your Device		X
DDNS Settings		Instal	lation Wizard 2
Setup a domain name	for device to be a	ccessed on the Interne	auon meara il
🚯 Step 1>> System	Step 2>> Network S	ietting 🚯 Step 3>> Po	rts 🕼 Step 4>> DDNS
	Enable DDNS	hine	
	Host name:		.safe100.net
	E-mail address:	VIVOTEK@VIVOTEK.COM]
	Key:	•••••	Forget Key
	Confirm key:	•••••	Register DDNS
	Hide Advanced Sett	tings	
	Service Provider —)
	🔘 safe100.net		* Use custom server only
	Oustom DDN	S server	so. Please contact your
	Server name	/address: ns1.safe100.n	et retailer for more details.
	Domain nam	ie: safe100.net	
7			
Cancel			Back Next

Figure 2-35 Advanced DDNS Setting



2.3.5 Mobile Access

When the DDNS setting is done and you click on the Next button, the Mobile Access message will prompt if your camera supports mobile viewer. You can enable the "Mobile Access" by clicking on the Yes button. By default, the IW2 will access video stream #3 form a network camera, which is normally the smallest-size video stream:

- 1. <u>Video</u>: The video codec will be set to MPEG-4, and the resolution will be set to 176x144 pixels.
- 2. Audio: The audio codec will be set to AAC.

Aobile Access Setup
Do you want to access the device by mobile phone? If you click on the "Yes" button, the video resolution of the device will be set to 176x144.

Figure 2-36 Mobile Access

2.3.6 Wireless Setting



Figure 2-37 Wireless Setting Confirm Boxn

The message above will only display when you select a network camera with wireless connection capability. If you click Yes, you can continue with wireless connection setting. Please refer to Figure 2-38 below.



🖳 Installation Wizard 2 - Se	tup Your Devic	e	
Wireless Settings Connect your device with	n wireless AP	Installation Wi	zard 2
Step 2>> Network Setting	() Step 3>>	Ports Step 4>> DDNS Step 5>> Wireless	· · ·
	SSID: d	lefault	
	Wireless mode: I	nfrastructure 💌	
	d	hannel: 1	
	Encrypt:	lone 💌	
Cancel		Back	Next

Figure 2-38 Wireless Setting

2.3.6.1 Basic Settings

"SSID" (Service Set Identifier), it is a name which identified a wireless network. Access Points and wireless clients attempting to connect to a specific WLAN (Wireless Local Area Network) must use the same SSID. The default setting is *default*. Note: The maximum length of SSID is 32 using single-byte characters.

"Wireless mode" Click on the pull-down menu, and you can see the following options:

 "Infrastructure" - Connect the device to the WLAN via an Access Point (The default setting). "Ad-Hoc" - Connect the device directly to a host computer that is equipped with a wireless adapter in a peer-to-peer mode.



 "Channel" While in the infrastructure mode, the channel will be automatically set to the same channel setting of the selected Access Point. While in Ad-Hoc mode, the channel must be set to the same channel for each wireless adapter. The default channel setting depends on the network setting of your installation site.

2.3.6.2 Data Encryption

"**Encrypt**" You can choose the encryption type you want in the pull-down menu, there are three items: None, WEP and WPA-PSK.

2.3.6.3 None

If your wireless environment doesn't need encryption, please choose "None".

2.3.6.4 WEP

If your encryption is WEP, please choose the "**WEP**" in the Encrypt pull-down menu, and you have to enter the following information.

🖳 Installation Wizard 2 - S	Setup Your Device			X
Wireless Settings Connect your device wi	th wireless AP	Install	ation Wiz	ard 2
Step 2>> Network Setting	g 🚯 Step 3>> Ports	5 🚯 Step 4>> DDNS	Step 5>> Wireless	< >
	SSID: default	:		
	Wireless mode: Infrast	ructure 💌		
	Channe	1 🗸		
	Encrypt: WEP	▼		
	Auth n	node: Open 🐱		
	Key le	ngth: 128bits 💌		
	Key fo	rmat: ASCII 💌		
		 ● 1 		
		02		
		○3		
		4		
Cancel			Back	Next

Figure 2-39 WEP Setting page



"Auth. Mode" Choose one of the following modes,

"**Shared**" – allows communication only with other devices on identical WEP settings.

"Open" – communicates the key across the network.

"**Key length**": The administrator can select the key length among 64 or128 bits. The selection will depend on the selected device.

"Key format": Hexadecimal or ASCII.

"HEX" digits consist of the numbers 0~9 and the letters A~F.

"**ASCII**" is a code for representing English letters as numbers from 0-127 except $\underline{"}, \underline{<}$ and space characters.

"Key": Enter a key in either hexadecimal or ASCII format. When selecting different key length, acceptable input length is listed as following:

64 bits key length: 10 Hex digits or 5 characters.

128 bites key length: 26 Hex digits or 13 characters.

2.3.6.5 WPA-PSK

If your encryption type is WPA, please select "**WPA-PSK**". And you have to enter the pre-shared key and select a proper encryption algorithm (TKIP or AES).



🖷 Installation Wizard 2 - S	etup Your Device			
Wireless Settings Connect your device wit	th wireless AP	Install	ation Wi	zard 2
Step 2>> Network Setting) 🕜 Step 3>> Port	s 🚯 Step 4>> DDNS	Step 5>> Wireless	< >
	SSID: defaul Wireless mode: Infras Channe	ructure V	-	
	Encrypt: WPA-t Pre-st Algori	SK V ared key: hm: TKIP V		
Cancel			Back	Next



When all wireless-related settings are done, click **Next** to proceed.

You will enter the Apply Settings page, click on the **Apply** button.

Open a command prompt window (or click on Windows Start menu, type "cmd" in the Run command field). Ping the camera's LAN port IP address (**use the** <ping xxx.xxx.xx -t> argument in the command).





C:\WINDOWS\system32\cmd.exe - ping 192.168.14.86 -t	×
Microsoft Windows XP [版本 5.1.2600] (C) Copyright 1985-2001 Microsoft Corp.	Ĥ
C:\Documents and Settings\liya.liu>ping 192.168.14.86 -t	
Pinging 192.168.14.86 with 32 bytes of data:	
Reply from 192.168.14.86: bytes=32 time<1ms TTL=64 Reply from 192.168.14.86: bytes=32 time<1ms TTL=64 Request timed out. Request timed out. Request timed out. Request timed out.	
	-

Figure 2-41 Pinging the Camera's LAN Port

Watch closely when the pinging process displays "Request timed out." That means the wireless connection is taking over. **Unplug your LAN port from the camera's RJ45 LAN port immediately**.

The camera should automatically restart. When the camera comes back online, you should be able to receive the below message with the Apply Setting Status.

Apply Se	tting Status 🛛 🔀
(į)	Applying settings to the device succeeded!
	確定



As shown in the Advanced Information panel on the Access Information page, the Wireless status should be stated as "Connected."

🦷 Installation Wizard 2 - Acc	ess Information		
Access Information		Installatio	on Wizard 2
Access the device every	where	motanatio	III MILAIA F
	Click the links below to a Access Information	access the device.	
	Access from Home:	http://192.168.14.85	
	Access from Internet:	http://PZ71x2.safe100.ne	<u>et:8080</u>
	Access from Cellphone:	rtsp://PZ71x2.safe100.ne	et:554/live2.sdp
	Add to my favorite	Export to desktop	Hide advanced information
	Advanced information		
	Network type:	Fixed IP	
	UPnP port forwarding s	tatus: Disabled	
		8080, 554, 5556, 5	5557, 5558, 5559
	DDNS status:	Success	
	PPPoE status:	Disabled	
一日。哲辨	Wireless status:	Connected	
Contraction of the second			
			Exit

Figure 2-42 Wireless Connection Status



2.3.6.6 Ad-hoc Mode Connection

To configure your wireless connection in Ad-hoc mode,

- 1. Configure a fixed IP for the network camera.
- 2. Configure wireless connection for the camera in the "Infrastructure" mode as previously described.
- 3. Return to the IW2 Wireless setting page, and change the Wireless mode into "Ad-hoc". Select the encryption mode and a Wireless mode channel.

🖳 Installation Wizard 2	2 - Setup Your D	evice			×
Wireless Settin Connect your devi	gs ice with wireles	ss AP	Installa	ation Wiz	ard 2
Step 3>> Ports) Step 4>> DDNS		Step 5>> Wireless		< •
	SSID:	Ad_hoo	-		
	Wireless mode:	Ad-Hoo	•		
	Encrypt:	Channe	I I I I 2 3 4 5 6 7 8 9 10 11		
Cancel				Back	Next

Figure 2-43 Wireless Ad-Hoc Mode

- 4. Configure the PC or laptop that is equipped with a wireless adaptor in the following way:
 - 4-1. Enter Control Panel -> Network and Internet Connections -> Network Connections.
 - 4-2. Select a Wireless Network Connection and right-click on it to select the Properties command.





Figure 2-44 Wireless Network Connections - Properties

4-3. Select Wireless Networks from the tabbed menu on the top.

L Wireless Network Connection Properties	? ×
General Wireless Networks Advanced	
Use Windows to configure my wireless network settings	
Available networks:	
To connect to, disconnect from, or find out more information about wireless networks in range, click the button below.	
View Wireless Networks	
Add Remove Properties	
Learn about <u>setting up wireless network</u> Advanced	
OK Canc	el



- 4-4. Select the first checkbox: Use Windows to configure my wireless network settings.
- 4-5. Click **Add** to create a new wireless connection.
- 4-6. On the **Properties** window, enter a name for the network and configure the Data encryption option.

Wireless network properties	?	×
Association Authentication Connection		1
Network name (SSID): Ad_hoc		
Connect even if this network is not broa	dcasting	
Wireless network key		
This network requires a key for the following	g:	
Network Authentication: Open	▼	
Data encryption: Disabl	led 💌	
Network key: WEP	led	
Confirm network key:		
Key index (advanced):	lly	
This is a computer-to-computer (ad hoc) r points are not used	network; wireless access	
	OK Cancel	

4-7. Click to select the ad hoc checkbox at the bottom of this window. You may also configure a WEP network key for secure connection.



a.d	bas			tion
Au_	noc.	рго	рег	ues

d_hoc properties	? ×		
Association Authentication Connection			
Network name (SSID): Ad_hoc			
Connect even if this network is not broadcasting			
Wireless network key			
This network requires a key for the following:			
Network Authentication: Open	-		
Data encryption: WEP	-		
Network key:			
Confirm network key:			
Key index (advanced):			
This is a computer-to-computer (ad hoc) network; wireless access points are not used			
ОК	Cancel		

- 4-8. Click OK when the setting is done. You will return to the Properties window.
- 4-9. Click on the Advanced button.

L Wireless Network Connection Properties	? ×
General Wireless Networks Advanced	
Use Windows to configure my wireless network settings	
Available networks:	
To connect to, disconnect from, or find out more information about wireless networks in range, click the button below.	
View Wireless Networks	
Automatically connect to available networks in the order listed below: AUTOMATIC Move up Ad_hoc (On Demand) Move down	
Add Remove Properties Learn about setting up wireless network configuration. Advanced	
OK Cano	el



4-10. Select the "Computer-to-computer (ad hoc) networks only" checkbox.





5. Return to the IW2 Wireless page and click on the Next button to proceed.



6. The Apply Settings page will prompt. Click on the Apply button.



7. The below message will prompt. When you see the messages below, you can return to your Windows Network Connections window.





Figure 2-45 Apply Settings Successful

Depending on the connection quality of your wireless network, the apply process can take several minutes.



If the wireless connection should fail or if a camera firmware hangs, you can manually reset the wireless camera by inserting a straightened paper clip and press down the reset button for 2 or 3 seconds. The location of the reset button may vary on different cameras.



Figure 2-46 Resetting a Camera

8. Return to the Network Connections page, right-click on the Wirelss Network Connection icon and select the "**View Available Wireless Networks**" command.



Setwork Connections		_ 🗆 ×
File Edit View Favorites Tools Advanced Help)	2
🚱 Back 🔻 🕥 👻 🏂 🔎 Search 🎼 Folders 🛛		
Address 🔇 Network Connections		🔻 ラ Go
Network Tasks *	gh-Speed Internet	
Create a new connection	ical Area Connection Innected, Firewalled -Link DFE-530TX PCI Fast Ethernet	
9 Set up a home or small office network	ireless Network Connection	
Change Windows Firewall settings	JFFAL: Disable	
^{((φ)} View a∨ailable wireless networks	Status	
Sisable this network device	Repair Bridge Connections	
🔦 Repair this connection		
Rename this connection	Create Shortcut	
Change settings of this connection	Rename	
	Properties	
Other Places *		
🚱 Control Panel		
🧐 My Network Places		
🗎 My Documents		
😨 My Computer 📃		

9. Your wireless camera's SSID should appear on the list of Wireless Networks. Left-click to select and click on the **Connect** button at the lower right to proceed.







10. Windows will start connecting to your network camera.



11. Wait for the connection to be established. The process can take several minutes. When done, the connection status should be stated as **Connected**.



12. Open a command prompt window. Ping the camera's IP to ensure the connection is up and running.



🗪 Command Prompt (2) - ping 192.168.4.131 -t	- 🗆 X
Microsoft Windows XP [Version 5.1.2600] (C) Copyright 1985-2001 Microsoft Corp.	
C:\Documents and Settings\XPMUser>ping 192.168.4.131 -t	
Pinging 192.168.4.131 with 32 bytes of data:	
Reply from 192.168.4.131: bytes=32 time=1ms TTL=128 Reply from 192.168.4.131: bytes=32 time=1ms TTL=128 Reply from 192.168.4.131: bytes=32 time=1ms TTL=128 Reply from 192.168.4.131: bytes=32 time=10ms TTL=128 Reply from 192.168.4.131: bytes=32 time=2ms TTL=128 Reply from 192.168.4.131: bytes=32 time=1ms TTL=128	
	-

13. You may then use the access links on the Access Information page to connect to the wireless camera.

🖷 Installation Wizard :	2 - Access Information			×
Access Informa Access the device	ation everywhere	Installatio	on Wizard	12
	Click the links below Access Informati Access from Home Access from Intern Access from Cellpl	w to access the dev on :: http://192.168.4.7 net: http://111.240.14 none: rtsp://111.240.14	ice. 131 8.133:8080 8.133:554/live2.sdp	
	Add to my favorite	Export to desktop	Advanced informat	ion



2.3.7 Apply to selected device

After configuring all the settings, the apply page will show up. Click on "**Apply**" button to apply the changes to the selected device or click on "**Back**" button to go back to the previous page and modify the setting again.



Figure 2-47 Apply page

When you click on the "Apply", it will start to update your settings to server. When completed, it will show the access information of this server for you. Please refer to 2.4 Access Information for the details.



Apply Settings
Applying settings to the device is in progress, please wait for a few minutes.
Elapsed time: 0:00:41

Apply Se	etting Status 🛛 🔀
(į)	Applying settings to the device succeeded!
	確定

Figure 2-48 Applying Device Configuration

🖷 Installation Wizard 2 -	Access Information		
Access Information Access the device eve	ר rywhere	Installatior	Wizard 2
	Click the links below to a Access Information Access from Home: Access from Internet: Access from Cellphone:	http://192.168.5.102 http://59.120.3.17:8080 rtsp://59.120.3.17:554/live2.sdp	0
	Add to my favorite	Export to desktop	Advanced information Exit

Figure 2-49 Access Information



2.4 Access Information

🖳 Installation Wizard 2 -	Access Information		
Access Information Access the device even) rywhere	Installatior	Wizard 2
	Click the links below to a Access Information Access from Home: Access from Internet: Access from Cellphone:	access the device. http://192.168.5.102 http://59.120.3.17:8080 rtsp://59.120.3.17:554/live2.sdp	 <
	Add to my favorite	Export to desktop	Advanced information
			Exit



The access information page shows you all the information about how to access the server. There are three access types:

- 1. Access from Home: If you access the camera from home, you can use the domain name (or IP address) and port number (if the http port is not 80) for access to the camera.
- 2. Access from Internet: If you access the camera from Internet, or you want to share the access to camera with another user, you should use this IP Address (or domain name) and port. If the server is behind a router, it will check whether the UPnP or port mapping is enabled. If the UPnP and port mapping is not available, it will display a red "Warning Icon" after the link. If the "Warning Icon" appears after the link, the camera can not be



accessed from Internet.

3. Access from Cellphone: If your camera supports RTSP streaming, a link will be displayed for you to access using QuickTime or players that support RTSP protocol (such as a 3GPP Mobile Phone). You can access the camera's video feed via this link.

🖷 Installation Wizard 2 -	Access Information		X
Access Information	n	Installatio	on Wizard 2
Access the device even	rywhere	in Standtic	III MIEAIA E
	Click the links below to a	ccess the device.	
	Access from Home:	http://192.168.5.102	
	Access from Internet:	http://59.120.3.17:8080	
	Access from Cellphone:	rtsp://59.120.3.17:554/live2.	sdp 🕠
	Add to my favorite	Export to desktop	Hide advanced information
	Advanced information		
	Network type:	DHCP	
	UPnP port forwarding st	atus: Disabled	
		8080, 554, 5556, 555	7, 5558, 5559
	DDNS status:	Disabled	
	PPPoE status:	Disabled	
一個調整	Wireless status:	Disconnected	
			Exit

Figure 2-51 Access Information

In the access information page, you can click on the "Advanced Information" to get more information.

- 1. **Network type**: The network type for access to the camera, it could be PPPoE, DHCP, or Fixed IP
- 2. **UPnP status**: The UPnP status. It could be Disabled, Success, or Failed
- 3. DDNS status: The DDNS status. It could be Disabled, Success, or Failed
- 4. **PPPoE status**: The PPPoE status. It could be Disabled, Success, or Failed
- 5. **Wireless status**: If your device supports wireless connection, the status will be Connected or Disconnected. If the device does not support wireless



connection, it will be stated as "unsupported."

For cameras that do not have information for certain fields in the advanced information, "Unknown" is shown in some status fields.

Two function buttons: "Add to my favorite" and "Export to desktop" are available on this page:

1. "Add to my favorite" is for you to add the Access Information to your browser's bookmarks. It helps preserve the links for access to the camera.



Figure 2-52 Add to my favorite message

省 Access your camera 00-02-D1-04-66-0D - Min	crosoft Internet Explorer	
File Edit View Favorites Tools Help		A.
G Back C Add to Favorites Organize Favorites	Favorites 🔇 Media 🚱 🔗 - 嫨 🗹 - 📙 🎇	
Address 🖉 C:\Doc 🛅 Links	evice_00-02-D1-04-66-0D.html	🔽 🔁 Go 🛛 Links 🎽
Curvetek Device 00-02-D1-04-66-0D	Access Device From Home Access Device From Internet	
Access from home	ALCESS DEVICE FAILURATING AND A ALCESS DEVICE FAILURATING AND	
Access from Internet	http://59.120.3.17:8080	
Access from mobile	rtsp://59.120.3.17:554/live2.sdp	
		~
http://59.120.3.17:8080/		

Figure 2-53 Links Added to My Favorites

2. "Export to desktop" will generate an HTML file on your desktop, and you can open this file by your browser and see the access information for this camera.



Figure 2-54 Generated HTML File Message



🚰 Access your camera 00-02-D1-04-66-0D - Mi	crosoft Internet Explorer	
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools <u>H</u> elp		A.
🚱 Back 🝷 🕥 👻 📓 🏠 🔎 Search	🛠 Favorites 🜒 Media 🤣 🔗 - 嫨 📝 - 🛄 鑬	
Address 🖉 C:\Documents and Settings\renee\Desktop\Viv	otekDevice_00-02-D1-04-66-0D.html	🔽 🄁 Go 🛛 Links 🎽
Acce		
Access from home	http://192.168.5.102	
Access from Internet	http://59.120.3.17:8080	
Access from mobile	rtsp://59.120.3.17:554/live2.sdp	
		-
ê		My Computer

Figure 2-55 HTML File Placed on Desktop



2.5 Upgrade Firmware(s)

When you select one or multiple devices (of the same model), the "**Upgrade Firmware(s)**" button will be enabled. Click on it to upgrade the firmware of the selected device(s). The IW2 will try to connect the selected camera(s) and guide you through the upgrade firmware(s) process.

Device Selection	n setup or upgrade	Installa	tion Wizard 2
Smort	MAC	IP Address	Model
Setup	00-02-D1-0E-EC-B4	192,168,4,144	IP8162
	F0-BF-97-60-44-0A	192,168,4,118	VAST
Defrech	00-02-D1-11-58-71	192.168.4.106	PZ81X1
Devices	00-23-54-52-BE-94	192.168.4.103	VAST
benedy	00-02-D1-11-7A-5D	192.168.4.107	IP8331
	00-26-18-57-59-17	192.168.4.123	VAST
~	00-02-D1-11-7A-3D	192.168.4.134	IP8352
	00-02-D1-10-59-14	192.168.4.142	MD8562
	00-24-8C-33-32-C3	192.168.4.141	VAST
Manual	10-78-D2-A7-D1-8B	192.168.4.129	VAST
Setup	90-E6-BA-90-50-86	192.168.4.149	VAST
·	00-1F-16-0A-C2-F4	192.168.4.138	VAST
Access Information	00-1E-8C-3C-87-A1	192.168.4.139	VAST
Upgrade Firmware(s) Restore Default About IW2	Please check the MAC product label of your of Then, you can start to show the main screen item in the above selection If you are not able to the above selection list, p cables are properly co and then click on the button.	C and model name in the device first. link to your device and by double clicking the ection list. find your device in the lease make sure all onnected to your device "Refresh Devices"	Network Camera Vincente Model NO: PT7137 Mac: 0002D1XXXXX Mac: 0002D1XXXXXX Mac: 0002D1XXXXX Mac: 0002D1XXXXXX Mac: 0002D1XXXXX Mac: 0002D1XXXXX Mac: 0002D1XXXXX Mac: 0002D1XXXXX Mac: 0002D1XXXXXX Mac: 0002D1XXXXXX Mac: 0002D1XXXXXXX Mac: 0002D1XXXXXXXXXXXXXXXXXXXXXXXX

Figure 2-56 Upgrade Firmware



2.5.1 Device Information

When connected to the selected camera(s), the Upgrade Firmware(s) panel will display as shown below. If you select more than one camera, then the information for all cameras will be shown. You can switch to individual camera information by clicking on the tabbed panel.

Installation Wizard 2 - Up	grade Firmware	×
Unavedo Firmuraro		
Upgrade the firmware t	to your device	2
	Selected model: MD8562 Selected devices information 192.168.4.142 MAC address: 00-02-D1-10-59-14	
-	Firmware version: MD8562-VVTK-0100d	
100	Selected firmware information Firmware version: (unspecified)	
	Please select a firmware to upgrade the selected devices. Select firmware Start upgrade	
e e e e e e e e e e e e e e e e e e e		
	C	ancel

Figure 2-57 Device information





🦷 Installation Wizard 2 - Up	igrade Firmware	x
Upgrade Firmware Upgrade the firmware	to your device	2
	Selected model: IP8352 Selected devices information 192.168.4.101 192.168.4.134 MAC address: 00-02-D1-11-7A-4A Firmware version: IP8352-VVTK-0100e	
	Selected firmware information Firmware version: (unspecified) Please select a firmware to upgrade the selected devices. Select firmware Start upgrade	
	Car	ncel

Figure 2-58 Multiple devices information

2.5.2 Firmware Information

The selected firmware information will show the information about the package file that you selected.

• **Firmware version:** The revision number of the selected firmware.

2.5.3 Select Firmware

You can use the "**Select firmware**" button to browse for the file that you want to upload to the selected camera(s). When the firmware file is selected, IW2 will examine whether the file you selected is correct. If it is the correct version, then more information about the package will be displayed and the "**Start Upgrade**" button is enabled. You can then click on the button to upgrade the firmware. If not, a warning message will prompt.



Select firmware							
Look jn:	🞯 Desktop		• ()	1 🖻	•		
My Recent Documents Desktop My Documents	My Documents My Computer My Network Pla T7139-VVTK-0	ices 200e.flash.pkg)100z.flash.pkg					
My Computer							
	File <u>n</u> ame:	IP7139-WTK-0200e.flash		*]	<u>O</u> pen	
My Network	Files of type:	PKG files (*.pkg)		*]	Cancel	

Figure 2-59 Select firmware

🕎 Installation Wizard 2 - Up		x				
Upgrade Firmware	to your device	Installat	ion Wizar	d 2		
	Selected model: MD85 Selected devices infor 192.168.4.142 MAC address: 0	62 mation 0-02-D1-10-59-14				
	Firmware version: MD8562-VVTK-0100d Selected firmware information Firmware version: MD8562-VVTK-0100d					
	Please select a firmwa Select firmware E:\Er Start upgrade	re to upgrade the selec	cted devices. G-0100d.flash.pkg			
				Cancel		

Figure 2-60 Firmware Information


Invalid Firmware		
(į)	The model is unmatched.	
	ОК	

Figure 2-61 Unmatched Firmware

2.5.4 Start Upgrade

Click on the "**Start Upgrade**" button to upgrade the firmware of the selected device(s). A dialog box will prompt showing the progress of the upgrade process. It takes about 5 to 10 minutes to complete the upgrade process. Depending on your camera model and network bandwidth, we recommend you perform the upgrade process in a wired LAN environment rather than PPPoE or wireless environment.

Upgrade Firmware
Firmware upgrade is in progress. 0/1 upgrade is completed1/1 is on going
Elapsed time: 0:00:05

Figure 2-62 Update Progress

When the upgrade process is done, a confirm message will prompt. Click "**OK**" to end the process.



Figure 2-63 Upgrade Is Complete



2.5.5 Upgrading Firmware for Multiple Cameras

The firmware of multiple cameras of the same model can be upgraded in one procedure. Below is the sample process. The upgrade firmware task can be performed on to a maximum of 16 cameras.

1. Select multiple cameras using the key combination of Shift and left mouse clicks.

Access Information	00-02-D1-FD-81-88 00-02-D1-07-6D-8D 00-02-D1-07-6D-8F	192.168.14.62 192.168.14.159 192.168.14.208	FD8161 FD7132 FD7132	
	00-02-D1-07-25-88 00-02-D1-05-2D-C6	192.168.14.87 192.168.14.168	FD7132 FD7131	
Firmware(s)	Please check the MAC	and model name in the	Network Camera	* VIVOTEK

2. Cameras selected will be displayed on a tabbed panel.

-	elected model: FD) Selected devices inform	7132 ation
	192.168.14.159 192	.168.14.208 192.168.14.87
	MAC address:	00-02-D1-07-6D-BD
	Firmware version:	FD7132-VVTK-0300a

3. Click on the Select firmware button to locate a firmware package file (that ususally comes in the *.pkg file format)



4. If you select a wrong type of firmware, e.g., firmware for a different model,



the IW2 will prompt a warning message. Contact technical support or check on VIVOTEK's website for an appropriate release of firmware.



5. Once an appropriate firmware is selected, click on the Start upgrade button.

🦷 Installation Wizard 2 - Up;	grade Firmware	×
Upgrade Firmware	Installation Wizard 2	
Upgrade the firmware to	your device	
	Selected model: FD7132 Selected devices information	
	192.168.14.159 192.168.14.208 192.168.14.87	
	MAC address: 00-02-D1-07-6D-BD	
	Firmware version: FD7132-VVTK-0300a	
		1
	Selected firmware information	
		_
	Please select a firmware to upgrade the selected devices.	
	Start upgrade	
	Cancel	

6. A progress window will prompt. Wait for the upgrade to complete.



Upgrade Firmware	X
Firmware upgrade is in progress. 0/3 upgrade is completed. 3/3 is on going.	: 1
Elapsed time: 0:00:39	

7. Below are the messages that might appear after the upgrade.

Upgrade	Firmware
(į)	Firmware upgrade for the device (MAC = 00-02-D1-07-25-8B) Failed!
	確定

Upgrade Firmware	
į)	The number of devices is upgraded successfully :2. The number of devices is upgraded failed :1. 確定



2.6 Restore Default

ce Select ct a device	ion to setup or upgrade	Installa	ation Wizard 2
	MAC	IP Address	Model
Smart	10-78-D2-A7-D1-88	192,168,4,123	VAST
etup	00-1E-8C-3C-87-A1	192,168,4,139	VAST
	00-02-D1-11-7A-4A	192,168,4,159	IP8352
<u> </u>	00-02-D1-0C-C3-98	192.168.4.153	IP8330
rresh	00-02-D1-0B-7E-CD	192,168,4,157	IP8161
vices	00-26-18-57-59-17	192,168,4,115	VAST
	90-E6-BA-90-50-86	192,168,4,149	VAST
~	00-1E-33-27-E7-5C	192.168.4.106	VAST
~	00-23-54-52-BE-94	192.168.4.145	VAST
	F0-BF-97-60-44-0A	192.168.4.111	VAST
	00-1E-33-27-E7-54	192.168.4.140	VAST
	00-1E-33-27-E7-45	192.168.4.103	VAST
anual			
ccess	Restore to default Setting	is estored to default settings and th	re settings you made will be lost. Click on the "Y
	proceed.		
grade ware(s)		Vec	No
grade ware(s)		Yes	No
grade ware(s)	product label of your	Yes (device first.	No Model NO: PT7137 CE 0560 D
grade ware(s)	product label of your Then, you can start to	Yes (device first. o link to your device and	No Model No: PT7137 CE 0560 ()
grade ware(s) store	product label of your Then, you can start to show the main scree	Yes (device first. o link to your device and n by double clicking the	No
grade ware(s) estore efault	product label of your Then, you can start to show the main scree item in the above sel	Yes (device first. o link to your device and n by double clicking the ection list.	No Model NO: PT7137 CC 0560 () MAC:0002D1XXXXXX FC
grade ware(s) store sfault	product label of your Then, you can start to show the main scree item in the above sel	Yes device first. o link to your device and n by double clicking the lection list.	No Model NO: PT7137 CC 0560 () MAC:0002D1XXXXXX SUID BULL IN COMPANY Hade in Tarrage
grade ware(s) store sfault bout W2	product label of your Then, you can start to show the main scree item in the above sel	Yes device first. o link to your device and n by double clicking the lection list. find your dovice in the	No Model NO: PT7137 CC 0.560 C MAC:0002D1XXXXXX MAC:0002D1XXXXX MAC:0002D1XXXXXX MAC:0002XXXXXXX MAC:0002XXXXXXXX MAC:0002XXXXXXXXX MAC:0002XXXXXXXXXXXXXXX MAC:0002XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
grade ware(s) store sfault bout W2	product label of your Then, you can start to show the main scree item in the above sel If you are not able to	Yes device first. o link to your device and n by double clicking the ection list. find your device in the	No Model NO: PT7137 CC 0560 C MAC:0002D1XXXXXX C MAC:0002D1XXXXX C MAC:0002D1XXXX C MAC:0002D1XXXXX C MAC:0002D1XXXXXX C MAC:0002D1XXXXX C MAC:0002D1XXXXX C MAC:0002D1XX C MAC:0002D1X C MAC:0002D1X C MAC:0002D1X C MAC:0002D1X C MAC:0002D1X C MAC:0002D1X
grade ware(s) store ifault bout W2	product label of your Then, you can start to show the main scree item in the above sel If you are not able to above selection list,	Yes device first. o link to your device and n by double clicking the ection list. find your device in the please make sure all	No Model NO: PT7137 (© 0560 () MAC:0002D1XXXXXXX MAC:0002D1XXXXXX MAC:0002D1XXXXXXX MAC:0002D1XXXXXXX MAC:0002D1XXXXXXX MAC:0002D1XXXXXXXX MAC:0002D1XXXXXXXXXXX MAC:0002D1XXXXXXXXXXXXXX MAC:0002D1XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
grade ware(s) store fault w2	product label of your Then, you can start to show the main scree item in the above sel If you are not able to above selection list, cables are properly of	Yes device first. o link to your device and n by double clicking the ection list. find your device in the please make sure all connected to your device	No Model NO: PT7137 C 0560 () MAC:0002D1XXXXXXX MAC:0002D1XXXXXXX MAC:0002D1XXXXXXX MAC:0002D1XXXXXXX MAC:0002D1XXXXXXX MAC:0002D1XXXXXXX MAC:0002D1XXXXXXXXXX MAC:0002D1XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

The restore default function erases user's settings, such as preset locations, Host name, image preferences, Motion Detection, Privacy Mask, etc., and restores factory default settings. To restore defaults for a camera,

- 1. Left-click to select a camera, and click on the Restore Default button.
- 2. Click Yes to proceed. Note that your previous configuration on the camera will all be lost.
- 3. If you have preset password for the camera, you will need to enter the password for the administrator login.



Connecting to the device 00-02-D1-11-7A-4A			
Please enter the administrator password:			
User name:	root		
Password:			
ОК		Cancel	

4. The progress bar will prompt, and the process can take up to several minutes.



5. Click OK to end the process.

Restore	to default Settings 🛛 🛛 🔀	3
٩	Restore to default setting succeeded!	ļ
	ОК	

6. You can now open a management session with the camera to re-configure it.