

OUTDOOR IR NETWORK CAMERA Series

INSTALLATION GUIDE

Please read instructions thoroughly before operation and retain it for future reference.

1. OVERVIEW

1.1 Package Content

Network camera

Installation Sticker

Installation Guide

- □ RJ45 cable extender adapter
- CD-ROM disc (including user manuals & CMS software "Video Viewer")

1.2 Dimensions

Unit: mm



1.2 Cable Overview



CABLE	DESCRIPTION
RJ45 network cable	Connect it to the supplied RJ45 cable extender adapter for cable extension, and prepare another RJ45 network cable with suitable length for your connection.
Reset wires	Remove the insulating coating of these two wires, and twist them together to reset default. This will reset all parameters, including the IP address to factory default settings.
	Note: Disconnect power before twisting these two wires together, and connect to power again for reset default.
Power cable	Connect to DC12V power supply.

2. INSTALLATION & CONNECTION

2.1 Install the Camera

Note: The illustration below is for installation only, and the actual product may look different from the illustration below.



Paste the supplied installation sticker to the location where your camera will be installed. Based on your installation environment, drill a hole in the middle of the sticker for the power & video cable to put through later if necessary. Slightly fasten the screws to (a) & (b) as indicated, and make sure the screws are not fastened to the end.



1) Based on your installation environment, put the power & video cable through the bracket, and determine the cabling of your camera:

3-1 -- The cable is hidden on the other side of the wall.

3-2 -- The cable walks along the wall.

- 2) Hook the bracket with the camera to the screws fastened in step 2, and push it down to fix the bracket.
- 3) Secure the screws on (a) & (b), and fasten the other two screws to (c) and (d) to fix the bracket.



Adjust the angles of the camera:

- (e) -- Adjust the vertical angle of the camera, and fix it with the screw & wrench supplied with the bracket.
- (f) -- Loosen the screw a little bit on the camera joint with the supplied wrench to adjust the horizontal angle of the camera, and fix it.

2.2 Connect to power

Connect the power adapter (optional) to the camera's power connector and power outlet.



Note: The regulated power adapter is DC12V to operate this device.

3. ETHERNET CONNECTION

Before using this network camera, please follow the instructions below to finish the network connection settings based on your installation environment:

- To configure the network settings, you must connect the camera to your PC by LAN. For details, please refer to "3.1 Network Connection via LAN" at page 4.
- To configure the network settings via Wizard, please refer to "3.2 Network Configurations via Wizard" at page 8.
- To configure the network settings via our supplied CMS software, Video Viewer, please refer to "3.3 Network Configurations via Video Viewer" at page 12.

3.1 Network Connection via LAN

- Step1: Connect this network camera and your PC via a RJ45 network cable, and make sure the camera is powered on.
- Step2: Set the PC's IP address as "192.168.1.XXX" (1~255, except 10).

For Windows 2000 users:

- a) Select "Start" → "Settings" → "Network and Dial-up Connections".
- b) Right-click on "Local Area Connection", and select "Properties".



c) In the "General" tab, select "Internet Protocol (TCP/IP)", and select "Properties".



d) In the "General" tab, select "Use the following IP address", and set the IP address as described below.

Note: It's recommended to note down the current settings first and then change as instructed. It's helpful when you need to restore the PC network settings for connecting to Internet later.

Internet Protocol (TCP/IP) Properti	es 🙁	<u><</u>
General		
You can get IP settings assigned auto this capability. Otherwise, you need to the appropriate IP settings.	matically if your network supports ask your network administrator for	
C Obtain an IP address automatica	lly	
┌─ [©] Use the following IP address: ──		402 469 4 777
IP address:	192 . 168 . 1 . 150	192.108.1.XXX (1~255 except 10)
Subnet mask:	255 . 255 . 255 . 0	(1~255 except 10)
Default gateway:	192.168.1.1	
C Obtain DNS server address auto	matically	
☐ Use the following DNS server ac	ldresses:	
Preferred DNS server:	192.168.1.150	
Alternate DNS server:		
	Advanced	
	OK Cancel	i l

e) Click "OK" to close the "Internet Protocol (TCP/IP) Properties" dialog box. Then, click "Close" to close the "Local Area Connection Properties" dialog box.

For Windows XP users:

a) Select "start" → "All Programs" → "Control Panel" → "Network and Internet Connections" → "Network Connections" (If you're in "Category View").



b) In "LAN or High-Speed Internet", right-click on "Local Area Connection", and select "Properties".



- c) In the "General" tab, select "Internet Protocol (TCP/IP)", and select "Properties".
- d) In the "General" tab, select "Use the following IP address", and set the IP address to "192.168.1.XXX" (XXX can be any value from 1~255 except 10).
- **Note:** It's recommended to note down the current settings first and then change as instructed. It's helpful when you need to restore the PC network settings for connecting to Internet later.
 - e) Click "OK" to close the "Internet Protocol (TCP/IP) Properties" dialog box. Then, click "Close" to close the "Local Area Connection Properties" dialog box.

For Windows Vista users:

a) Select "¹ (start) → "Control Panel" → "Network and Internet" to enter the "Network and Sharing Center". Then, click "Manage network connections" (If you're in "Category View").



b) Right-click on "Local Area Connection", and select "Properties".



c) In the "General" tab, select "Internet Protocol Version 4 (TCP/IPv4)", and select "Properties".

Local Area Connection 3 Properties	
Networking Sharing	
Connect using:	
DVB Net ETAdapter	
Configure	
This connection uses the following items:	
Glient for Microsoft Networks	
✓ ➡ QoS Packet Scheduler ✓ ➡ File and Printer Sharing for Microsoft Networks	
Internet Protocol Version 6 (TCP/IPv6)	
Internet Protocol Version 4 (TCP/IPv4)	rnet Protocol Version 4 (TCP/IPv4)
Link-Layer Topology Discovery Mapper I/O Driver	
🗹 🛥 Link-Layer Topology Discovery Responder	
Install Uninstall Properties	Properties
Install Oninstall Properties	Froperaes
Description	
Iransmission Control Protocol/Internet Protocol. The default	
across diverse interconnected networks.	
OK Cancel	
	J

- d) In the "General" tab, select "Use the following IP address", and set the IP address as described below.
- **Note:** It's recommended to note down the current settings first and then change as instructed. It's helpful when you need to restore the PC network settings for connecting to Internet later.



e) Click "OK" to close the "Internet Protocol Version 4 (TCP/IPv4) Properties" dialog box. Then click "Close" to close the "Local Area Connection Properties" dialog box.

3.2 Network Configurations via Wizard

A quick installation wizard is available via your web browser for password change, date & time settings, and network configurations.

- For details about the wizard, please refer to "3.2.1 Setting in Wizard" at page 8.
- For details about DDNS setting for PPPoE and DHCP, please refer to "3.2.2 DDNS Setting" at page 10.
- **Note:** You can also change the settings in the system configuration page via your web browser later. For details, please refer to "5. ACCESSING THE CAMERA VIA WEB BROWSER" in the user manual.

3.2.1 Setting in Wizard

- Step1: Open your web browser, for example, Microsoft Internet Explorer, and enter "<u>http://192.168.1.10</u>" in the URL address box.
- Step2: In the login page, key in the default user name (*admin*) and password (*admin*), and enter the security code from the image below. Then, click "LOGIN".



Step3: The wizard is then starting analyzing your network environment, and shows your network environment. Select "Next" to continue.



Step4: In "Account", change the access password if needed. If not, leave all the columns blank, and select "Next".

/izard		×
Step2. Account		
Username:	admin	
Password:	****	
New Password:	****	
Confirm Password:	*****	
		-
		\ominus Back 📄 🌍 Next

Step5: In "Date and Time", check if the date and time setting are correct and modify if necessary.

Vizard		×
Step2. Accour	t	Step3. Date and Time 🔶
Date: Time:	2009/10/15 11 ¥ : 47	▼ : 22 ▼
		Back O Next

- Step6: In "Network", select the network type based on your network environment (Static IP / PPPoE / DHCP), and key in the information needed.
- **Note:** This camera doesn't support POE router or hub.



For Static IP:

a) Enter the information of "Server IP", "Gateway" and "Net Mask" obtained from your ISP (Internet Service Provider).

b) Enter the port number. The valid number ranges from 1 to 9999. The default value is 80. Typically, the TCP port used by HTTP is 80. However in some cases, it is better to change this port number for added flexibility or security.

For PPPOE:

a) Enter the user name and password obtained from your ISP.

b) Continue the DDNS setting as instructed in "3.2.2 DDNS Setting" when you're prompted to restart the web browser in Step8.

For DHCP:

a) Before selecting this option, you need to finish the DHCP router settings first.Get a router and connect it to the Internet via your PC (with Static IP or PPPoE setting). There are different setting methods for different routers. Please refer to their respective user manuals.b) Continue the DDNS setting as instructed in "3.2.2 DDNS Setting" when you're prompted to restart

Step7: In "Apply", all the changes are listed. Check if the changes are correct.

If yes, click "Save".

the web browser in Step8.

- If no, click "Back" to where the changes should be made for modification, and click "Save" to apply the settings.
- **Note:** You can also change the settings in the system configuration page via your web browser later. For details, please refer to "5. ACCESSING THE CAMERA VIA WEB BROWSER" in the user manual.



Step8: You will be prompted to restart your web browser for network setting changes.

- For PPPoE and DHCP, continue as instructed in "3.2.2 DDNS Setting".
- For Static IP, disconnect your camera and your PC, and connect them to Internet separately. Next, enter the IP address of the camera in the URL address box of the web browser, and see if you can access the camera successfully.

3.2.2 DDNS Setting

Step1: Re-log in the network camera, and select "Close" for network environment checking.



Step2: In the live page, click "Configuration" to open the configuration page.

🐐 H.264 IP CAMERA		🗮 Wizard 🕻 📰 Configuration 🌶 🌡 admin 🦨 Logout
E Live View	🖉 Live View	
Live View Panel	FR:30.00 fps_DR:1052 kbps Time:2009/08/05 13:50:11 Q:High R:4CIF	Configuration
Media Type:		R. H. H.
H.264 ¥	>/ ×	1999
Video Quality:	2	
Basic Normal High Best	- A	
Video Resolution:		
4CIF 💌		
Control		
	and the second se	
	1 1	
	N/a-	

- Step3: Click "Network" \rightarrow "DDNS", and check "DDNS Enable".
- Step4: Select "default" in "System Name".

In "Hostname", keep the default value, i.e. *the MAC address of this camera*, or change the name to a meaningful one. It's easier to memorize.

Then, note down the whole address of the camera, for example, *MAC000E530D93E3.ddns.dvrtw.com.tw*.

Live View	Live View	DDN5	(X)	
Configuration Network Cos DNS SNTP Method Me	DDNS Cont	Figuration inable System Name: Hostname: E-Mail:	default System Nai MACODOES30D93E3 administrator@network.com	me: default .ddns.dvrtw.com.tw
E UPPP Camera Color Time Advance General Server Log Cuin Account Trigger Trigger Trigger Video Social Maps Upgrade			Save Rebad	

- **Note:** You can also create a DDNS account from a website which provides free DDNS service. For details, please refer to "APPENDIX CREATING AN ACCOUNT FOR DDNS SERVICE" at page 16.
- Step5: Click "Save" and log out. Then, disconnect your camera and your PC, and connect them to Internet separately.
- Step6: Enter the host name you just note down in the URL address box of the web browser, and see if you can access the camera successfully.

3.3 Network Configurations via Video Viewer

- 3.3.1 Install the software
- Step1: Place the supplied CD into your CD-ROM or DVD-ROM drive. The program will be automatically run.

User Manual & AP	Quit
User Manual	
Outdoor IR Network Camera Series Download The Latest Version Vari-Focal Network Camera Series Download The Latest Version	
Quick Start	
Outdoor IR Network Camera Series Download The Latest Version Vari-Focal Network Camera Series Download The Latest Version	Mas
Video Viewer	
User Manual 🖌 🖫 Download The Latest Version Program 🖌 🖫 Download The Latest Version	

- * The screen on the left side is an example only and may vary depending on the product you have.
- Step2: Click "Program" in the "Video Viewer" section to install Video Viewer.
- Step3: Follow the on-screen instructions to finish the installation. When the installation is completed, a shortcut icon "" will be placed on your PC desktop.
- Step3: Double-click "??" on your PC desktop to open Video Viewer and enter the control panel. By defaults, the "Address Book" panel will be displayed on the right side of the control panel.
- Step4: Click "III" → "IIII" is to key in the default IP address, user name, password, and port number of the camera you intend to connect.

ltem	Default Value	
IP address	192.168.1.10	
User name	admin	
Password	admin	
Port	80	

Click " \bigcirc " \rightarrow " \bigcirc " to search the available IP address(es) of other camera(s) under the same domain as your PC's IP address. The found address(es) will be listed, and can be added into the address book by clicking " \bigcirc ".

Step5: Double-click the IP address you just added into the address book to log in.

3.3.2 Network Setting

- **Note:** It's recommended to have the qualified installer to plan and configure the network setting.
- Step1: Click **"IJ"** to show the "General setting and utilities" dialog box, and click "Remote Config" twice to enter the camera setting page.

tt.	🖁 General setting and u		×	
	Remote Config	Record Set	ting Custom Setting	
	Config	ure	Cancel	

Step2: Select "Network" to make network settings **based on your network environment**. There are three network connection types: Static IP, PPPOE, and DHCP.

📴 Server Setting : 192.16	81.10	×
General	Network	
Log Account OnLineUser Trigger	IP Type: © Static IP © PPPOE © DHCP	
- Retwork QoS DDNS	Server IP: 192 . 168 . 1 . 10	
FTP	Gateway: 192 . 168 . 1 . 254	
Filter UPnP	NetMask: 255 . 255 . 0	
⊡ Camera ⊡ Color	Web Port: 80	
Time		
ОК		
Cancel	User Name: Password:	
Apply		

Note: This camera doesn't support POE router or hub.

For Static IP:

- a) Enter the information of "Server IP", "Gateway" and "NetMask" obtained from your ISP (Internet Service Provider).
- b) Enter the port number. The valid number ranges from 1 to 9999. The default value is 80. Typically, the TCP port used by HTTP is 80. However in some cases, it is better to change this port number for added flexibility or security.
- c) Click "Apply", and click "OK" to exit the setting page.

For PPPOE:

- a) Go to "Network" → "DDNS", and select "default" in the "System Name" drop-down list.
- b) In "Hostname", keep the default value, i.e. *the MAC address of this camera*, or change the name to a meaningful one. It's easier to memorize.
- c) Note down the whole address of the camera, for example, MAC000E53114389.ddns.dvrtw.com.tw.

Note: You can also create a DDNS account from a website which provides free DDNS service. For details, please refer to "APPENDIX CREATING AN ACCOUNT FOR DDNS SERVICE" at page 16.

🔯 Server Setting : 192.16	8.1.10	×
- General	Network :: DDNS	
- Account - OnLineUser	DNS Server1: 168 . 95 . 1 . 1	
⊡ Network	DNS Server2: 139 . 175 . 55 . 244	
DDNS SN TP FTP MAIL	DDNS: © On © Off Default host name: MAC address of this camera	
Filter UPnP Video	System Name: default 💌 🛧	
⊡Camera Color Time	Hostname: MAC000E53114389 .ddns.dvrtw.com.tw	
ОК	E-Mail: administrator@network.com	
Cancel		
Apply		

d) Go to "Network" and select "PPPOE". Then, enter the user name and password obtained from your ISP.

🔯 Server Setting : 192.16	8.1.10	×
General Log	Network	
OnLineUser Trigger	IP Type: C Static IP C PPPOE C DHCP	
- QoS - DDNS	Server IP: 192 . 168 . 1 . 10	
- FTP - MAIL	Gateway: 192 . 168 . 1 . 254	
Filter UPnP Video	NetMask: 255 . 255 . 0	
⊡- Camera Color Time		
ОК	PPPOE User Name: a45823 Password:	
Cancel Apply		
	1	

e) Click "Apply", and click "OK" to exit the setting page.

For DHCP:

a) Finish the DHCP router setting.

Get a router and connect it to the Internet via your PC (with Static IP or PPPoE setting). There are different setting methods for different routers. Please refer to their respective user manuals.

- b) Go to "Network" → "DDNS", and select "default" in the "System Name" drop-down list.
- c) In "Hostname", keep the default value, i.e. *the MAC address of this camera*, or change the name to a meaningful one. It's easier to memorize.
- d) Note down the whole address of the camera, for example, *MAC000E53114389.ddns.dvrtw.com.tw*.

Note: You can also create a DDNS account from a website which provides free DDNS service. For details, please refer to "APPENDIX CREATING AN ACCOUNT FOR DDNS SERVICE" at page 16.

📴 Server Setting : 192.16	58.1.10	×
🖃 General	Network :: DDNS	
Account 	DNS Server1: 168 . 9	5.1.1
- Network	DNS Server2: 139 . 17	75 . 55 . 244
- QoS		
FTP	DDNS: © 0	n Off Default host name:
MAIL Filter UPnP Video	System Name: defi	ault
⊡ Camera Color Time	Hostname: MAG	.ddns.dvrtw.com.tw
ОК	E-Mail: adm	inistrator@network.com
Cancel		
Apply		

e) Go to "Network" and select "DHCP".

🔯 Server Setting : 192.16	8.1.10	×
General	Network	
- Account - OnLineUser - Trigger	IP Type: C Static IP C PPPOE C DHCP	
⊡- Network QoS DDNS SN TP	Server IP: 192 . 168 . 1 . 10	
FTP	Gateway: 192 . 168 . 1 . 254	
Filter UPnP	NetMask: 255 . 255 . 255 . 0	
⊡ Video ⊡ Camera Color Time	Web Port: 80	
ок	PPPOE	
Cancel	User Name: a45823 Password: ******	
Apply		

- f) Click "Apply", and click "OK" to exit the setting page.
- Step3: Disconnect your camera and your PC, and connect them to Internet separately.
- Step4: Add the IP address or host name of your camera in "III" of Video Viewer with correct user name and password, and click it twice to see if you can access to your camera.

3.3.3 Change the password

It's recommended to change the default password for the first time usage in case of any unauthorized access.

- Step1: Click " To show the "General setting and utilities" dialog box, and click "Remote Config" twice to enter the camera setting page.
- Step2: Click "General" → "Account", and select the default account. Change the password directly, and click "Apply".

🔯 Server Setting : 192.16	168.1.10	×
E-General	General :: Account	
Account	User Name User Level Life Time	
UnLineUser Trigger	admin Supervisor INFINITE	
⊡ Network		
DDNS		
SN IP FTP		
MAIL Filter		
UPnP		
⊡ Camera	User Name: admin Password:	****
Time	User Level: Supervisor Life Time:	INFINITE -
ОК	New Delete Apply	
Cancel		
Apply	Max User(s): 10 ☑ Anonymous User Login	Update

Step3: Return to the live view, and click 📕 to disconnect the camera.

Step4: Click III → "III" to select the IP address of the camera, and click "IIII" to enter the setting page and modify the password. Then, click "Login" to access the camera with the new password.

APPENDIX CREATING AN ACCOUNT FOR DDNS SERVICE

For PPPOE or DHCP, you should enter the host name which points to the IP address of your network camera for login first. Besides using the default DDNS service, you can also apply for new DNS services.

There are many websites for free DDNS service application, and below shows an example of DDNS account application from the website <u>http://www.dyndns.com</u>.

Step1: Go to http://www.dyndns.com, and click "Create Account" to sign up a DDNS account.



- Step2: Enter all the information necessary for signing up an account according to the website instructions.
 - Key in a user name for login, for example, headoffice523.
 - · Set the password and input it again to confirm.
 - Key in your E-mail address and input it again to confirm.

Then, click "Create Account".

	About	Services	Account	Support	News	
count						
æ Account	Create an a	account or	loa in to co	ntinue		
			5			
Password?	Username:	headoffice52	3		Already Re	gistered?
My Cart	Password:	*****			Username	
y oran	Confirm passwor	rd: *****			Password	
	Email:	office@everte	ech.com			Log in
rch	Confirm email:	office@everte	ech.com			Forgot your password?
arch	Subscribe to:	DynDNS.c	com newsletter			
		(1 or 2 per	r month) press releases			
		Remove H	HTML formatting fr	om email		
	Security Image:	3 2	1.7.	5		
		Enter the nun 32175	nbers from the abc	we image:		
	🔽 I agree with th	ne <u>acceptable use j</u>	policy (AUP) and p	ivacy policy.		
			Create	Account	← 0	reate Accour

Step3: The system will automatically send a confirmation email to your email account. Please read this email within 48 hours and complete the procedure to activate your account according to the instructions in the email.

When the account is confirmed, you will see "Account Confirmed". Your account is created successfully now.



Step4: Click "login", and enter the user name and password you preset before to log in.

Step5: Click "Add Host Services".

	DNS.com					Logged In User: headoffice523 My Cart My Services Log Out
	About	Services	Account	Support	News	
My Account	DynDNS Acco	ount headoff	ice523			
My Services						
Account Settings	My Services		Billing		Accou	int Settings
Billing	delete you	irty, purchase, and ir services.		te your billing mation, complete a		Set preferences, and delete
My Cart	My Zones/Domains		View Shopping	<u>1 Cart</u>	Ces.	ge Email Address
	Add Zone/Domain	ns Services	Active Service:	2	Chan	ge Password
Search	My Hosts		Order History		Chan	ge Username
	Add Host Service	<u>s</u> •	Billing Profile a	nd Vouchers	Conta	act Manager
Search	Dynamic Pro		Renew Service	25	Mailin	i <u>g Lists</u>
	Spring Server VPS		Auto Renew S	ettings	Move	Services
A	dd Host Se	rvices	Sync Expiration	16	Prefe	rences
	Network Monitoring				Close	Account
	SSL Certificates					
	Recursive DNS					
	Support					

- Input a meaningful host name.
- Choose a host name.
- Enter the IP address you want to redirect.

Note down the whole host name, for example, *headoffice523.dyndns.org*. Then, click "Add To Cart" for billing.

by Dynamic 1	letwork Services Inc.					Ny Carl My Services Log Out
	About	Services	Account	Support	News	
My Account	Add New Host	tname				† Host Services
My Services Dynamic DNS Pro SLA Premier Support	Note: You currently don' features. Paying for an I	't have any activ Dynamic DNS Pr	e <u>Dynamic DNS Pro u</u> o upgrade will make	p <u>grades</u> in your acc this form fully funct	count. You canno ional and will add	t use some of our Host Service d several other features.
Zone Level Services Domain registration and transfer, DNS hosting, NaliHop services	Host Wildcard S	tname: he status: Dis	adoffice523	dyndins.org		
Host Services Dynamic DNS hosts, WebHop URL Forwarding Spring Server VPS	Service	e Type: @ C	Host with IP address WebHop Redirect [2 Offline Hostname [2	i [2]]]		
MaiHop Outbound Recursive DNS Network Monitoring SSL Certificates	IP Ad	ldress: 21 Us	1.75.84.96 a auto detected IP ad L value is 60 seconds	iress 211.75.84.96 Edit TTL.		
Renew Services						
Renew Services Auto Renew Settings Sync Expirations						

Note: This service is free. Just finish the billing process, and **NO** paying information is required.

Step6: Click "Activate Services" after checkout, and you're ready to use DDNS services now.

ee Services Checkout			
nce you have confirmed the contents of your cart your services v	vill be instantly activated.		
Service	Period	Price	
Dynamic DNS Hosts			
headoffice523.dhsalias.org		\$0.00	
	Sub-Total:	\$0.00	
	Activate S	Gervices >>	Activate Ser

Step7: Return to Video Viewer, and go to "Network" \rightarrow "DDNS".

- Select "On" for DDNS.
- Select the system name you set when subscribing the DDNS service from the drop-down list, for example, *dyndns*.
- Enter the user name & password you used to log into the DDNS service.
- Enter the host name you set when subscribing the DDNS service, for example, *headoffice523*.

🔯 Server Setting : 192.16	8.1.10	×
General	Network :: DDNS	
Log Account OnLineUser Triana	DNS Server1: 168 . 95 . 1 . 1	
⊡ Network	DNS Server2: 139 . 175 . 55 . 244	
DDNS SNTP FTP MAIL	DDNS: On COff	
Filter 	System Name: dyndns	
Camera Color Time	User Name: headoffice523 User Name to log in	DDNS Se
ОК	Password: Password to log in [D <mark>DNS</mark> Ses
Cancel	Hostname: headoffice523	
Apply		