

Quick Installation Guide

2.0 Megapixel WiFi Waterproof IR IP Camera

Model: H218W/H218



Wired Version: H218

Wireless Version: H218W

Package Contents

- IR IP Camera 2.0 Megapixel
- Power Adapter 12V-3A
- Network Cable
- WiFi Antenna (Wireless Version H218W)
- CD-ROM with Setup Software and User Guide
- Quick Installation Guide



Start Installation

1) Hardware Installation

① Step 1, Mount WiFi Antenna

Take out the camera out of the box carefully and put it on a table steadily, then take the WiFi antenna, mount it on the SMA connector on the back of the camera, and screw the antenna to the bottom, then make the antenna stand vertically.

2 Step 2, Get the camera powered

Connect the included two parts of the power supply first, and then connect the end of DC connector to the camera's power socket, and plug the other end of power supply to an electrical outlet.

③ Step 3, Get the camera connected to the router

Use the network cable provided to connect the camera to the router or the switch in the LAN network at your home or your office.



The wireless IP Camera could be connected to the wireless router by wireless connection, but you have to do the wireless connection settings by wired connection before you use wireless connection method.

2) Software Installation

A. Insert the Setup CD-ROM into your CD-ROM driver and open it. Close the IE browser first before

you install the setup software.

B. Install IE ActiveX, goes to the icon ***** ^{I ActiveX}, left double click the mouse to install, it pops up a dialogue as below, click button "**install**", when it shows "Register OCX success", then close the window.

OCX Install		×
Install	Uninstall	Close

	· · · · · · · · · · · · · · · · · · ·
Install Uninstall	Close
Register OCX success	

Click button "install"

Close the window when finished

NVSCenterV6.19

C. Install NVSCenterV6.19, goes to the icon

, left double click the mouse to install,

InstallShield Wizard	×
Choose Destination Location Select folder where Setup will install files.	
Setup will install NVSCenterV6.19 in the following folder.	
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.	
Destination Folder	
C:\Program Files\NVSCenter\NVSCenterV6.19 Browse	
InstallShield	
< Back Next > Can	cel

Click "next" to finish the installation of the setup software NVS Center

D. Language configuration, after installation of the software NVS Center, goes to the menu

"Start" of your computer and click, then goes to "Programs" → "NVSCenterV6.19" → "Config"

1	Programs	. 🖻	Accessories	•	
			Startup	•	
Ì	Documents	6	Outlook Express		Click Config
V -	Settings		TradeManager	+	
\sum	Search		14	•	Config
			Skype	•	👶 MP6Converter
?	Help and Support		IP Camera	•	📁 MP6Player
	Pup	•	CuteFTP XP 5.0.1.0	_ ▶	NVSCenter
<u> </u>		X	Acrobat.com		NVSPlayer
D	Log Off Dapiel Depg	Å	Adobe Reader 9		🔄 SearchNVS
62	Log off Dahler Delig	G	NVSCenterV6.19	•	🎯 Uninstall
0	Turn Off Computer	_	×		
sta	nrt 🛛 🕼 😂 🕒 👋 💽				- 12

Then it pops up a dialogue for language selection, It supports five languages for the moment, Chinese, English, Russian, Italian, French. **Please select the second one which is English.** Close the window when finished

🦣 Config	
Language Set Video Width – Width	中文 中文 使文 像文 像文 English 法文
Set Display Mem	iory
Autocheck	
C Display Car	rd Memory
System Men	nory

3) Login the Camera

① Step 1, Open Search tools to search the camera within LAN

Goes to the menu "Start", and click, then goes to "Programs" \rightarrow "NVSCenterV6.19" \rightarrow "SearchNVS".

1	Programs •		Accessories	۲		
			Startup	•		
Ì	Documents •	3	Outlook Express			
			TradeManager	•		
1	Settings •	6	腾讯软件	×		
$\sum_{i=1}^{n}$	Search 🕨		招商证券全能版	•	7	Config
-			Skype	•	0	MP6Converter
?	Help and Support	m	IP Camera	•	-	MP6Player
	Run	(iii)	CuteFTP XP 5.0.1.0 新春贺岁版	×	7	NVSCenter
		r	Acrobat.com		\geq	NVSPlayer
\mathcal{D}	Log Off Daniel Deng	Å	Adobe Reader 9		<u>a</u>	SearchNVS
		G	NVSCenterV6.19	×	1	Uninstall
0	Turn Off Computer		¥		-	

After that, I pops up a window as below, just click the 'search' button to find the cameras which is connected to the router. The camera connected to the router will be listed.

SearchNVS								
			Local IP 192.1	68.0.95	Search	Set	Total : 1	
Device Name	Device Model	Channel Total	IP Address	Subnet Mask	Gateway	Data Port	Web Port	Multicast IP
(IPCam364425	IPCam CMOS Video Encoder*	1	192.168.55.160	255.255.255.0	192.168.55.1	5000	80	224.55.8.1
				Click h the car	ere to search mera			
			All co wi	the camera nnected to t I be list on t	he router he window]		

2 Step 2, Change the default IP address of the camera to the same IP range

with local IP of the computer.

You have to change the default IP address of the camera to a new one, which should start from the same IP range like 192.168.0.xxx, if your LAN network starts from 192.168.0.xxx.

Firstly, select the Camera list on the window, and left double click the mouse, then pops up a Network Parameter window as below. And check the IP range of your computer. For example, if the computer's Local IP is 192.168.0.95, so you need to change the default IP of the camera **from 192.168.55.160 to 192.168.0.160 or any IP start from 192.168.0.xxx**. And change the default Gateway **from 192.168.55.1 to 192.168.0.1**.

	5	Netwo	ork Parameter	×
Device Name Device Model Channel Total P Address Sut	onet M		Device model	IPCam CMOS Video Encoder*
IPCam364425 IPCam CMOS Video Encoder* 1 192.168.55.160 255	.255.2		Device name	IPCam364425
Lan ip of the computer will be showed here	\Box		Channel num	1
			MAC	00-4A-20-A5-8C-A1
Default Lan ip of the camera is 192.168.55.160	\vdash		IP address	192 . 168 . 55 . 160
	N		Subnet mask	255 . 255 . 255 . 0
Default Gateway is 192.168.55.1	H		Gateway	192 . 168 . 55 . 1
			Data port	5000
			Web port	80
			Multicast IP	224 . 55 . 8 . 1
			Multicast por	5000
			DNS	202 . 96 . 134 . 133
		g	User name	admin
			Password	admin
			The Device will re	boot, when network parameters are modified.
				OK Cancel

Secondly, After checking the local IP range of the PC starts from 192.168.0.xxx, then change the default IP of the camera from 192.168.55.160 to 192.168.0.160 or any IP start from 192.168.0.xxx. And change the default Gateway from 192.168.55.1 to 192.168.0.1. Fill the user name & password and click "OK", and the camera will reboot to take all the modification effect. (The default user name & password of the camera are both admin.)



Thirdly, After the camera being rebooted, then search the camera, the new IP 192.168.0.160 will be listed on the window as below.



③Step 3, Access the camera by entering the modified IP of the camera on the

IE browser.

Open IE browser (IE6, IE7, IE8 all ok), entering the modified LAN IP of the camera on the address bar.

🕘 abou	🖹 about:blank - Microsoft Internet Explorer								
File Ed	lit View Favor	rites Tools Hel	p						
Ba	k • 🕑 • [× 2 🏠	🔎 Search	☆ Favorites	🚱 🔗 🍓 📄 🛄 🗱	Ķ	-28		
Address	192.168.0.160	þ							

And press "Enter", it leads to the login window of the camera, enter password **admin** to access the camera.

🙋 http://192.168.0.160/login.asp		
	IP camera	Real-time IP Camera Monitoring System
	System Login	Notice
		For initial access or issues with viewing the camera image, please click the link below to download the ActiveX setup file. Once the file is decompressed and installed, please login to the camera again.
	User name admin Password	After installing the OCX successfully,please delete cookies in computer when user logins error,IE tool >Internet option>browser history (delete temporary file,history,COOKIE) or confirm the username and password.
		Download OCX Setup File File

Congratulations, you have accessed to the live video of the camera successfully



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4) Wireless Connection Settings

① Step 1, Enable WiFi function

Goes to the option "**Network Set**" and click, then goes to "**Basic Set**" and click, then enable **WiFi option** on the column of WiFi Parameters.

System	Basic Parameters	DDNS Parameters
Video	Enable DHCP	Enable DDNS 📃 Link to <u>mvddns.net</u>
🕨 Alarm Set	IP address 192.168.0.160	DDNS provider
Network Set	Subnet mask 255.255.255.0	DDNS regName
Basic Set	GateWay 192.168.0.1	DDNS password
VPN Setting	MAC 00-4a-20-a5-8c-a1	DDNS domain
User Manage	Data port No. 5000	DDNS server URL www.mvddns.net
Terminal	HTTP port No. 80	DDNS server Port 30000
Storage Set	Preferred DNS 202.96.134.133	Data port map No. 5000
Local Set	Alternate DNS 202.106.0.20	HTTP port map No. 80
Images Set	WiFi Parameters Eable WIFI	Update Interval 30 minutes 💌
Lens Control	Enable WiFi 🔽	Domain E.C.:
Assign a differenct	IP IP address 192.168.0.159	test1.mvddns.net
from wired	Subnet mask 255 255 0	PPPOE Parameters
like102 168 0 150		Enable PPPOE 📃
IIKe132.100.0.103	Gateway 192.166.0.1	PPPOE URL
Assign Wireless	SSID IPCAM	PPPOE username
parameters same	Password •••••••	PPPOE password
with the router's	type of encryption WEP	Online time Ominutes
wireless parameter	Auxiliary encryption Automatic 🕑	Connect Parameters
	Encryption way Hexadecimal 🗸 🗸	Auto connect 🔲

2 Step 2, Set Wireless Parameters

Assign a different IP from the IP of wired connection, like 192.168.0.159. Gateway 192.168.0.1

WiFi Parameters					
Enable WiFi					
IP address	192.168.0.159				
Subnet mask	255.255.255.0				
GateWay	192.168.0.1				

Get to know the password and encryption method of the wireless router before entering wireless parameters within the camera. For example: the **encryption method** of the router is **WEP**, and **Authentication Type** is **Hexadecimal**, **SSID** is **IPCAM**, **Password** is **ABCDEF1234**, So then fill the parameters as below. And click "Save". The camera will restarted to make the settings effect.

IPCAM	
•••••	
WEP	~
Automatic	~
Hexadecimal	*
Auto	~
Auto	~
	WEP Automatic Hexadecimal Auto

When the wireless settings are finished, the camera will be restarted.



③ Step3, Access the Camera by Wireless Connection

After the camera being restarted, then search the camera, the new WiFi LAN IP 192.168.0.159 will be listed on the window as below. It shows that the wireless connection settings are successful.

/ SearchNVS									
Local IP 192.168.0.95 - Search Set Total : 1									
Device Name	Device Model	Channel Total	IP Address	Subnet Mask	Gateway	Data Port	Web Port	Multicast IP	
IPCam364425	IPCam CMOS Video Encoder*	1 🕻	192.168.0.159	255.255.255.0	192.168.0.1	5000	80	224.55.8.1	

Enter the WiFi LAN IP 192.168.0.159 on the IE bar to access the camera by Wireless connection.

4) Remote Access Settings

We have been able to access the camera within the LAN network, but how to access the camera via WAN or via internet? We have to do Remote Access Settings before we want to access the camera outside the LAN network.

Note

There are two kinds of port No. we need to know clearly before doing remote access settings. One is **Date Port No.** the other one is **HTTP Port No.**. The default Date Port no. of the camera is 5000 and the default HTTP Port No. is 80. Show as below.

Basic Parameters			D	DNS Parameters	
Enable DHCP		Default Data Port is 5000		Enable DDNS	✓ Link to <u>dyndns.org</u>
IP address	192.168.0.160			DDNS provider	dyndns.org 🛛 👻
Subnet mask	255.255.255.0			DDNS regName	dericam
GateWay	192.168.0.1			DDNS password	•••••
MAC	00-4a-20-a5-8c-a1			DDNS domain	dericam.dyndns.org
Data port No.	5000		[DDNS server URL	dericam.dyndns.org
HTTP port No.	80		0	DNS server Port	30000
Preferred DNS	202.96.134.133		Da	ata port map No.	5000
Alternate DNS	202.106.0.20 Default HTTP		HTTP port map N		88
WiFi Parameters		Port is 80		Update Interval	30 minutes 🛛 👻
Enabl	le WiFi 🔽)	Domain E.C.:	

Default HTTP No.: 80

All the cameras' default http no. is 80. For example, if the LAN IP link of the camera is <u>http://192.168.0.159</u>, it shows that the camera's http port no. is 80, if the LAN IP link of the camera is <u>http://192.168.0.159:88</u>, it shows that the camera's http port no. is 88. We can assign the camera a different HTTP Port No. by the tool **SearchNVS**.

	Network Parameter	
Device Name Device Model	Device model IPCam CMOS Video Encoder*	
IPCam364425 IPCam CMOS Video En	Device name IPCam364425	
	Channel num	
	MAC 00-4A-20-A5-8C-A1	
	IP address 192 . 168 . 0 . 159	
	Subnet mask 255 . 255 . 255 . 0	
Assign a differenct	Gateway 192 . 168 . 0 . 1	
by manual	Data port 5000	
	Web port 88	
	Multicast IP 224 . 55 . 8 . 1	
Enter username	Multicast port 5000	
click Ok to submit the modification.	DNS 0.0.0	
Camera will restart to take the	User name admin	
modification effect	Password admin	
	The Device will reboot, when network parameters are modified.	

Date port no.: 5000

Note

All the default data no. is 5000, please just leave it alone, do not make any change of the data port no.

Start Remote Access Settings

First of all, please make sure whether your ISP (Internet Service Provider) provides a Static WAN IP address service or a Dynamic WAN IP address service.

Here we divide two section of procedure of Remote Access Settings by Static WAN IP address and Dynamic WAN IP address. If your ISP provides you with **Static WAN IP address** please refer to **Section A**, if your ISP provides **Dynamic WAN IP address**, please skip Section A, goes to **Section B** directly.

Section A: Remote Access Settings of Static WAN IP

① Step 1, Get to know the WAN IP address of the router

Login the third part website <u>http://www.whatismyip.com</u> to obtain the WAN IP of the router. Then it will tell you the WAN IP address of your router showed as below. It shows the WAN IP is **183.37.19.183**



2 Step 2, Make Port Forwarding of the HTTP Port & Data Port of the camera

Take example, the camera's wireless LAN IP address is <u>http://192.168.0.159</u>. There is two port forwarding we have to do. One is HTTP Port No. **80**, the other is Data port no. **5000**.

How to do port forwarding for the camera's port no?

Firstly, login the router, goes to the menu of **Port Forwarding or Port Trigger** (or named **Virtue Server** on some brands of router).

Secondly, create a new column with LAN IP address & HTTP Port No. of the camera within the router.

Take TP-link brand router as an example showed as below

Add new column of Port Forwarding or Virtual Server

TP-LIN	K'					
Status						
Basic Settings	Virtua	Servers				
Quick Setup	1					
Network		100 m	11.1 M 11.1	100000000		19.12
Wireless	ID	Service Ports	IP Address	Protocol	Status	Modify
Advanced Settings						
DHCP	Add Nos		IlA atalan			
Forwarding			saure oil Delete All			
- Virtual Servers	L					
- Port Triagering			Previous Next			

Create Port Forwarding of the HTTP Port of the camera

Status	Add or Modify a Virtual Server Entry	
Basic Settings	Service Port:	80 (XX-XX or XX)
Quick Setup	IP Address:	192.168.0.159
Network	Protocol	ALL
Wireless	r Totocol.	
Advanced Settings	Status:	Enabled
DIICD	N	2
Forwarding	Common Service Port:	Select One 🛩
- Virtual Servers	4	Save Back
- Port Triggering		
- DMZ	📕 🕴 🕴 Fill Port 80, if t	the HTTP of the camera is 80, and the
- UPnP	LAN IP addres	ss of the camera, then submit. Then the
Security	Port forwardir	ng the HTTP port is finished.
Static Routing		
IP & MAC Binding)

Create Port Forwarding of the Data Port 5000 of the camera

tatus	Add or Modify a Virtual Server Entry	
lasic Settings	Service Port:	5000 (XX-XX or XX)
luick Setup	IP Address:	192.168.0.159
etwork	Protocol	ALL
fireless		
dvanced Settings	Status:	Enabled M
IIGP		
prwarding	Common Service Port:	Select One 💌
Virtual Servers		Save Back
Port Triggering		
DMZ	Fill the data p	oort no. 5000, and the LAN ip address of
JPnP	the camera 1	92.168.0.159, and submit then the Port
ecurity	forwarding th	ne date port is finished.
Intic Douting		New York State State State State State State State State

③ Step 3, use WAN IP address to access the camera via internet

After the port forwarding is finished, you can use the <u>WAN IP address + HTTP Port</u> to access the camera via internet. Take 183.37.19.183 for example, the accessing link of the camera via internet would be <u>http://183.37.19.183:80</u>

Section B: Remote Access Settings of Dynamic WAN IP

① Step 1, Go to the website <u>www.dyndns.com</u> to apply a hostname

Login on <u>www.dyndns.com</u> and click 'get a free domain service', and click Sign up free.

			IC°		1	DNS & Domains	Email Services	Performanc	e & Security
(UD	by Dynamic Netw	ork Services Inc.			Wha	t are you looki	ng for?	Searc
	Why DynDNS	i.com?	Services & Pricing	Support				Have an acc	ount? S
1									
	The Be	st Thing	is In Life A	re Free		Add New Hostnam	ie		
Then click here to sign up Click here	Start now by r than 3.8 millio services, inclu can also safeg Sigr	egistering your f n home and sma ding free registra uard your email, u up FREE	ree domain with Dyni Il business users with ation to get you starte protect and speed y	DNS.com. DynDNS.co n a suite of comprehe ed. Once you've set u our Internet, and mu	om provides more ensive domain ip your domain, you ch more.	Hostname Wildcard Service Type JP Address Til	yourhost yourhost Hen, aliae "* hostnai Hendin Webleg Redirect Offine Hostname Hending Redirect Define Hostname Hen arto detected IP a G0 s Default dyname	dyndins.org ne.domain' to same se domain Stress DMS value	etngs.
first	Get a Fi Domain M	REE	Step up to Dynect SMB	Un	leash the Power of DNS	Protect and sp your interr	eed up net	Safegu Er	ard your mail
Why DynDN	S.com?	Services (3 Pricina	Support				н	ave an a

Get a free domain name and join 3,500,000 happy DynDNS users

Most Popular		
DynDNS Free	DynDNS Pro	DynDNS Custom
FREE	^{\$} 15/yr	\$29.95/yr
Get a free domain name	Up to 30 Pro domain names	DNS hosting for yourdomain.
Update monthly to avoid expiration	Never expires, just works	Branded URL-shortening with W
Use with Windows, OSX, routers & more	also works with TSIG clients	also works with Apple AirPort &
Free email and community support	Access to phone technical support	Access to phone technical su
Sign Up	Sign Up	Sign Up

Create a **hostname**, a **user name** and **password** which are used to DDNS settings within the camera. (Please apply the account step by step according to instructions on www. dyndns.com)

Take hostname dericam.dyndns.org, user name dericam, and password dericam2010

for example. Select Dyndns.org as a server showed as below, and fill dericam as DDNS regName, fill password dericam2010 as DDNS password, fill dericam.dyndns.org as DDNS domain and server URL, Then click save to make effect. The camera will restart and to take the DDNS settings effective.

	Live View	➡Network				
	System	Basic Parameters			DDNS Parameters	
	Video	Enable DHCP			Enable DDNS	✓ Link to <u>dyndns.orq</u>
	Alarm Set	IP address	192.168.0.159		DDNS provider	dyndns.org 🛛 💙
	Network Set	Subnet mask	255.255.255.0		DDNS regName	(dericam
-	Basic Set	GateWay	192,168,0,1		DDNS password	
	Advanced				DDNC domain	derieens dundne era
	VPN Setting	MAC	UU-4a-2U-a5-8c-a1		DDNS uomain	dencam.uynuns.org
	User Manage	Data port No.	5000		DDNS server URL	dericam.dyndns.org
	Terminal	HTTP port No.	80		DDNS server Port	30000
	Storage Set	Preferred DNS	0.0.0.0		Data port map No.	5000
	Local Set	Alternate DNS	202.106.0.20		HTTP port map No.	80
	Images Set	WiFi Parameters			Undate Interval	30 minutes 🗸
	Long Control					

② Step 2, Make Port Forwarding of the HTTP Port & Data Port of the camera

Take example, the camera's wireless LAN IP address is <u>http://192.168.0.159</u>. There is two port forwarding we have to do. One is HTTP Port No. **80**, the other is Data port no. **5000**.

How to do port forwarding for the camera's port no? (Please refer to Section A)

Firstly, login the router, goes to the menu of **Port Forwarding or Port Trigger** (or named **Virtue Server** on some brands of router).

Secondly, create a new column with LAN IP address & HTTP Port No. of the camera within the router.

③ Step 3, use domain name to access the camera via internet

After the port forwarding is finished, you can use the domain name+ http no. to access the camera via internet. Take hostname dericam.dyndns.org for example, the accessing link of the camera via internet would be http://dericam.dyndns.org:80

Other Settings

Please refer to the user manual for other settings.