WISENET

NETWORK CAMERA User Manual

QNE-8011R QNE-8021R

CE

Network Camera

User Manual

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- * Design and specifications are subject to change without prior notice.
- The initial administrator ID is "admin" and the password should be set when logging in for the first time.

Please change your password every three months to safely protect personal information and to prevent the damage of the information theft.

Please, take note that it's a user's responsibility for the security and any other problems caused by mismanaging a password.

IMPORTANT SAFETY INSTRUCTIONS

- 1. Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. Do not use this apparatus near water.
- Clean the contaminated area on the product surface with a soft, dry cloth or a damp cloth. (Do not use a detergent or cosmetic products that contain alcohol, solvents or surfactants or oil constituents as they may deform or cause damage to the product.)
- 7. Do not block any ventilation openings, Install in accordance with the manufacturer's instructions.
- 8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11. Only use attachments/ accessories specified by the manufacturer.
- 12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/ apparatus combination to avoid injury from tip-over.



- 13. Unplug this apparatus during lighting storms or when unused for long periods of time.
- 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- This product is intended to be a Listed Power Supply Unit marked "Class2" or "LPS" and rated from PoE(48V), 0.16A.
- **16.** This product is intended to be supplied by isolation power.
- 17. If you use excessive force when installing the product, the camera may be damaged and malfunction. If you forcibly install the product using non-compliant tools, the product may be damaged.
- 18. Do not install the product in a place where chemical substances or oil mist exists or may be generated. As edible oils such as soybean oil may damage or warp the product, do not install the product in the kitchen or near the kitchen table.

This may cause damage to the product.

- **19.** When installing the product, be careful not to allow the surface of the product to be stained with chemical substance.
 - Some chemical solvents such as cleaner or adhesives may cause serious damage to the product's surface.
- 20. If you install/disassemble the product in a manner that has not been recommended, the production functions/ performance may not be guaranteed.

Install the product by referring to "Installation & connection" in the user manual.

21. Installing or using the product in water can cause serious damage to the product.

WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE. DO NOT INSERT ANY METALLIC OBJECT THROUGH THE VENTILATION GRILLS OR OTHER OPENNINGS ON THE EQUIPMENT.

Apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

To prevent injury, this apparatus must be securely attached to the Wall/ceiling in accordance with the installation instructions.

CAUTION



EXPLANATION OF GRAPHICAL SYMBOLS



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

Class I construction

An apparatus with CLASS I construction shall be connected to a MAINS socket outlet with a protective earthing connection.

Battery

Batteries(battery pack or batteries installed) shall not be exposed to excessive heat such as sunshine, fire or the like.

The battery cannot be replaced.

Disconnection Device

Disconnect the main plug from the apparatus, if it's defected. And please call a repair man in your location.

When used outside of the U.S., it may be used HAR code with fittings of an approved agency is employed.

CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

ATTENTION

IL Y A RISQUE D'EXPLOSION SI LA BATTERIE EST REMPLACÉE PAR UNE BATTERIE DE TYPE INCORRECT.

METTRE AU REBUT LES BATTERIES USAGÉES CONFORMÉMENT AUX INSTRUCTIONS.

These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

Please use the input power with just one camera and other devices must not be connected.

The ITE is to be connected only to PoE networks without routing to the outside plant.

The wired LAN hub providing power over the Ethernet (PoE) in accordance with IEEE 802-3af shall be a UL Listed device with the output evaluated as a Limited Power Source as defined in UL60950-1.

Unit is intended for installation in a Network Environment 0 as defined in IEC TR 62102. As such, associated Ethernet wiring shall be limited to inside the building.

Please read the following recommended safety precautions carefully.

- Do not place this apparatus on an uneven surface.
- Do not install on a surface where it is exposed to direct sunlight, near heating equipment or heavy cold area.
- Do not place this apparatus near conductive material.
- Do not attempt to service this apparatus yourself.
- Do not place a glass of water on the product.
- Do not install near any magnetic sources.
- Do not block any ventilation openings.
- Do not place heavy items on the product.
- Please wear protective gloves when installing/removing the camera. The high temperature of the product surface may cause a burn.

User's Manual is a guidance book for how to use the products.

The meaning of the symbols are shown below.

- Reference : In case of providing information for helping of product's usages
- Notice : If there's any possibility to occur any damages for the goods and human caused by not following the instruction

* Please read this manual for the safety before using of goods and keep it in the safe place.

In particular installation environments, there might be interference in radio communications. When interference of electromagnetic waves occurs between the product and radio communication device, it is recommended to keep a certain distance between the two or change the direction of the receiving antenna.

WARNING

To Prevent damage which may caused by IR LED, don't stare at operating lamp.

For below models only.

QNE-8011R

QNE-8021R

Risk Group 1

WARNING IR emitted from this product.

Do not stare at operating lamp.

Product tested against IEC 62471

OVERVIEW

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APPENDIX

Troubleshooting Open Source Announcement

RECOMMENDED PC SPECIFICATIONS

- CPU : Intel(R) Core(TM) i7 3.4 GHz or higher
- RAM : 8G or higher
- Supported OS : Windows 7, 8.1, 10, Mac OS X 10.12, 10.13, 10.14
- Recommended browser : Google Chrome
- Supported browsers : MS Explore11, MS Edge, Mozilla Firefox(Window 64bit only), Apple Safari(Mac OS X only)
- VGA : PCIe 256MB GDDR3 video graphics card or higher
- $\ensuremath{\overset{\scriptstyle \otimes}{_{\scriptstyle \sim}}}$ Some functions may be restricted even in supported browsers.

RECOMMENDED MICRO SD/SDHC/SDXC MEMORY CARD SPECIFICATIONS

- Recommended capacity : 16GB ~ 128GB(MLC type)
- Recommended Manufacturers : SanDisk, Transcend
- Product Type : High endurance
- The compatibility varies depending on the card manufacturers and types.

NAS RECOMMENDED SPECS

- Recommended capacity : 200GB or higher is recommended.
- For this camera, you are recommended to use a NAS with the following manufacturer's specs. Recommended products : QNAP NAS, Synology NAS

WHAT'S INCLUDED

Please check if your camera and accessories are all included in the product package. (As for each sales country, accessories are not the same.)

Appearance	Item Name	Quantity	Description
	Camera	1	
\checkmark	Quick Guide (Optional)	1	
	Template	1	Product installation guide
	L Wrench	1	Used to open the micro SD slot cover
00)	RJ45 waterproof accessory	1	Used to install in humid places

Optional Accessories for Installation

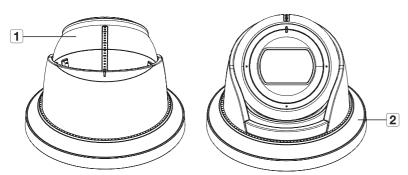
For your easier installation, you can purchase appropriate optional accessories available.

		0
Model name	Back Box	Wall Mount
QNE-8011R/8021R	SBV-125BW	SBP-125WMW

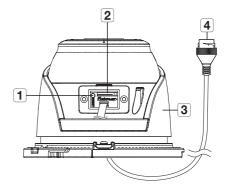
overview

AT A GLANCE

Appearance



Components



Item	Description
	The button restores all camera settings to the factory default. Press and hold for about 5 seconds to reboot the system.
1 Reset Button	If you reset the camera, the network settings will be adjusted so that DHCP can be enabled. If there is no DHCP server in the network, you must run the Device Manager program to change the basic network settings such as IP address, Subnet mask, Gateway, etc., before you can connect to the network.
2 Micro SD Memory Card Compartment	Compartment for the Micro SD memory card.
3 Inside cover	Protective cover for the main body.
4 PoE Connector	Connects to the network and supplies power through Ethernet cable.

Item	Description
1 Head	A part that contains the lens and the internal body.
2 Middle Cover	A cover placed over to fix its position after the head direction has been adjusted.

installation & connection

INSTALLATION



This camera is waterproof and in compliance with the IP67 spec, but the jack connected to the external cable is not. You are recommended to install this product below the edge of eaves to prevent the cable from being externally exposed.

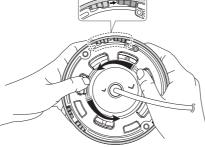
Precautions before installation

Ensure you read out the following instructions before installing the camera:

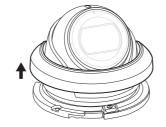
- It must be installed on the area (ceiling or wall) that can withstand 5 times the weight of the camera
 including the installation bracket.
- Stuck-in or peeled-off cables can cause damage to the product or a fire.
- For safety purposes, keep anyone else away from the installation site. And put aside personal belongings from the site, just in case.

Disassembling

1. Hold the camera body with both hands as illustrated and use thumbs to rotate the groove of the base anticlockwise to unlock the middle cover.



2. Remove the middle cover by lifting it.



Installation

- 1. Consider the direction to be monitored, attach the template, and drill holes by following the template.
 - = Set the < \bigcirc > mark printed on the template to face the direction of camera monitoring.
- 2. Connect the camera internal terminal with the corresponding cable.
- **3.** Using 2 tapping screws, fix the camera at 2 holes drilled with a template.

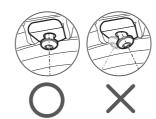


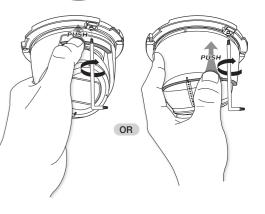
EMPLATE

- 4. Remove all protective films from the camera windows.
- 5. Unfasten the inner cover bracket until loose.
- Adjust the lens in a desired direction by referring to the "Adjusting the monitoring direction for the camera" section. (page 11)



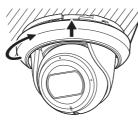
- 7. Push the colored camera part upward in the direction of the arrow, and tighten the screws in the direction perpendicular to the ceiling.
- Don't install the screws at an angle.





installation & connection

- 8. Put the middle cover back and rotate it clockwise until it is firmly in place.
 - Align the insert mark on the camera body and the interlock mark on the middle cover to assemble.



How to connect the RJ45 waterproof cable to a LAN cable

1. Insert it through the arrow direction.

RJ45 connector (male) RJ45 modular

Rubber ring

Rubber rind

RJ45 connector protection cover

Back cover

Cable waterproof gasket

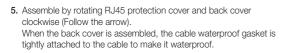
iack (female)

2. Connect the LAN connector (male) to the cable.

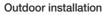
3. Connect the RJ45 modular jack (female) to the RJ45

Please, keep each of the parts separated.

 Assemble by rotating the RJ45 modular jack (female) and the RJ45 protection cover clockwise (Follow the arrow).



You must fully assemble it to rotate the back cover up to the end of the screw thread of the RJ45 connector.



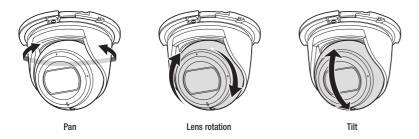
When you install it outside of the building, please waterproof it with waterproof butyl rubber tape (can be purchased in stores) so that water does not leak from the gap of the cable connected to the outside.



- 1. Connect the PoE cable.
- 2. Wrap the black cable jacket (Area A) and the cable connection area with waterproof (butyl rubber) tape so that more than half of the butyl rubber tape is overlapped.
 - If the cable jacket is not waterproofed properly, then it can directly cause leakage. Make sure to protect the cable with a dense layer of taping.
 - Waterproof butyl tape is made of butyl rubber that can be stretched to twice its normal length.

connector (male).

Adjusting the monitoring direction for the camera



Adjusting the monitoring direction

You can adjust the camera direction only when the camera is fixed on the ceiling. Where, rotating the camera unit to the left or right is called Pan, adjusting the tilt is called Tilt, and turning the lens on its axis is called Rotation.

- The effective range of pan is a total of 350 degrees.
- The effective range of rotation is a total of 360 degrees.
- The effective range of tilt is a total of 75 degrees.

Methods of adjustment

After installing the camera in consideration of the direction to monitor, adjust Pan, Rotation, and Tilt angles.

INSERTING/REMOVING A MICRO SD MEMORY CARD

- Disconnect the power cable from the camera before inserting the Micro SD memory card.
- Do not insert the Micro SD memory card while it's upside down by force. Otherwise, it may damage the Micro SD memory card.
- When it rains or the humidity is high, insertion or ejection of a Micro SD card is not recommended.
- Disassembly of the product cover should be finished within 5 minutes, or there will be the risk of internal dew condensation.

Inserting a Micro SD Memory Card

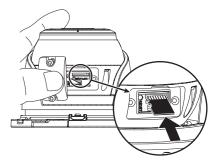
- 1. Remove the middle cover and unfasten screws on the inside cover bracket.
- 2. Rotate it 90° so that the SD cover faces the front, as shown in the picture.
- 3. Completely tilt the camera towards the back.



4. Use the L wrench provided as a tool to release the SD cover.

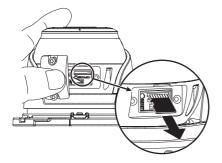


5. Slide in the Micro SD card following the direction shown in the picture.



Removing a Micro SD Memory Card

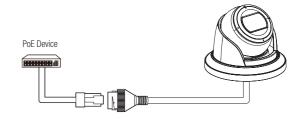
Gently press down on the exposed end of the memory card as shown in the diagram to eject the memory card from the slot.



- Pressing too hard on the Micro SD memory card can cause the card to shoot out uncontrollably from the slot when released.
- Before removing the Micro SD memory card, in <Storage>, set the device to <Off> and press the [Apply] button and turn the camera off.
- If you turn off the camera or remove the Micro SD memory card that contains data from the product, the data may be lost or damaged.

POWERING AND NETWORKING

Connect the PoE device and camera's PoE connectors.



- Connect to a PoE (Power over Ethernet) enabled router's PoE connector.
 - Use PoE (Power over Ethernet) that is compliant with the IEEE802.3af protocols.

Network Cable Specification

Item	Contents	Remark
Connector	RJ45	
Ethernet	10/100BASE-T	10/100 Mbps
Cable	Category 5e	
Max Distance	100M	DC Resistance $\leq 0.125 \Omega/m$
PoE Support	IEEE 802.3af	



If you use a cable other than Category 5e standards, 100m of transmission distance is not guaranteed.

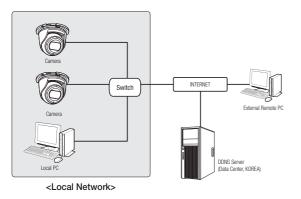
network connection and setup

You can set up the network settings according to your network configurations.

CONNECTING THE CAMERA DIRECTLY TO LOCAL AREA NETWORKING

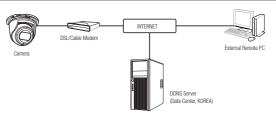
Connecting to the camera from a local PC in the LAN

- 1. Launch an Internet browser on the local PC.
- 2. Enter the IP address of the camera in the address bar of the browser.



- A remote PC in an external Internet out of the LAN network may not be able to connect to the camera installed in the intranet if the port-forwarding is not properly set or a firewall is set. In this case, to resolve the problem, contact your network administrator.
 - By factory default, the IP address will be assigned from the DHCP server automatically. If there is no DHCP server available, the IP address will be set to 192.168.1.100. To change the IP address, use the Device Manager. For further details on Device Manager use, refer to "Using Device Manager". (Page 14)

CONNECTING THE CAMERA DIRECTLY TO A DHCP BASED DSL/CABLE MODEM



- 1. Connect the user PC directly with the network camera.
- Run the Device Manager and change the IP address of the camera so that you can use the web browser on your desktop to connect to the Internet.
- 3. Use the Internet browser to connect to the web viewer.
- 4. Move to [Setup] page.
- 5. Move to [Network] [DDNS] and configure the DDNS settings.
- 6. Move to [Basic] [IP & Port], and set the IP type to [DHCP].
- 7. Connect the camera, which was removed from your PC, directly to the modem.
- 8. Restart the camera.
- For information on how to set DDNS, refer to the online help of Web Viewer.
 - For information on how to set the IP format, refer to the online help of Web Viewer.

USING DEVICE MANAGER

- Device manager program can be downloaded from <Technical Guides>-<Online Tool> menu at Hanwha Techwin website (http://www.hanwha-security.com).
 - More instructions of Device Manager can be found at <Help> menu of the main page.

AUTOMATICALLY SEARCHING CAMERA

If a camera is connected to the same network of the PC where device manager is installed, you can find network camera by using search function.

- 1. Click <Search> at the main page of device manager.
- 2. Check the camera from the list.
 - Check MAC address at the sticker attached to the camera.

CONFIGURING IP ADDRESS

If you want to change camera network setting, <Login OK> sign must be displayed at <Status>. Click <Authentication> at the main page to log in.

Configuring Static IP

Manually insert and configure IP address & port information.

- 1. Click the camera from the list that you want the change the IP setting.
- 2. Click <IP Assign> at the main page of device manager.

3. Select < Assign the following IP address>.

- IP information of the camera will be displayed as previously set.
- 4. Fill in IP & Port related categories.

If not using a Broadband Router

For setting <IP Address>, <Subnet Mask>, and <Gateway>, contact your network administrator.

- HTTP Port : Used to access the camera using the Internet browser, defaulted to 80.
- RTSP Port: A port that controls real-time streaming. The initial value is 554.

If using a Broadband Router

- IP Address : Enter an address falling in the IP range provided by the Broadband Router.
- ex) 192.168.1.2~254, 192.168.0.2~254, 192.168.XXX.2~254
- Subnet Mask : The <Subnet Mask> of the Broadband Router will be the <Subnet Mask> of the camera.
- Gateway : The <Local IP Address> of the Broadband Router will be the <Gateway> of the camera.



The settings may differ depending on the connected Broadband Router model.

For more information, refer to the user manual of the applicable router.

 For more information about port forwarding of the broadband router, refer to "Port Range Forward (Port Mapping) Setup". (Page 16)

If the Broadband Router has more than one camera connected

Configure the IP related settings and the Port related settings distinctly with each other.

ex)

Ø

C	ategory	Camera #1	Camera #2
IP related settings	IP Address	192.168.1.100	192.168.1.101
	Subnet Mask	255.255.255.0	255.255.255.0
	Gateway	192.168.1.1	192.168.1.1
Port related settings	HTTP Port	8080	8081
	RTSP Port	554	555

If the <HTTP Port> is set other than 80, you must provide the <Port> number in the address bar of the Internet browser before you can access the camera.
 ex) http://IP address : HTTP Port http://192.168.1.100:8080

5. Click [Apply] Button.

6. If the success message is displayed, click [OK].

Configuring Dynamic IP

Receive IP address from DHCP

- Example of the Dynamic IP environment
- If a Broadband Router, with cameras connected, is assigned an IP address by the DHCP server
- If connecting the camera directly to modem using the DHCP protocols
- If IPs are assigned by the internal DHCP server via the LAN
- 1. Click the camera from the list that you want to change the IP setting.
- 2. Click <IP Assign> at the main page of device manager.
- 3. Select < Obtain an IP address automatically (DHCP)>.
- 4. Click [Apply] button.
- 5. If the success message is displayed, click [OK].

🛞 Obtain an Par	Schess automatically (DHCP)		
O Assign the fail	awing IP address	MAC Address	00:0918:55:00
P Address (192 . 168 . 0 . 31	HTTP Port (80
Subnet mask :	255 - 255 - 255 - 0	VNP Port	4520
Gateway:	192 . 168 . 0 . 1	RTSP Port	554
DNS1:	165 . 126 . 65 . 1		
DNS2 :	165 . 126 . 65 . 2		

AUTOMATICALLY CONFIGURING IP

- 1. Click the camera from the list that you want to automatically configure the IP.
- 2. Click < + > at the main page of device manager.
 - Equipment Setting menu appears.
- 3. At the menu, click <Auto IP Configure>.
- 4. Click [Close] button.

Model Name GNE-8011R	Name Camera	P Address 192.168.0.31	Result	
				UP nP
				UPpP ON
				UPnP OFF
				Get UPnP Value
				Borgour
				Borjour ON
				Bonjour OFF
				Get Borgour Valu

MANUALLY REGISTERING CAMERA

If the camera cannot be found using search function, the camera can be registered remotely by manually inserting IP information, if the camera is connected to external network.

- 1. Click <Add Devices> <Manually Add Device> at the main page of device manager.
- 2. Insert the range of IP address that you search.
- 3. Select the <Model Name> of the camera that you register, and insert HTTP port, ID, and password.
- 4. Click [Register] button.
- 5. Check if camera is registered.
 - · Check MAC address at the sticker attached to the camera.

Model Name	Harroba Netwo	ek Camera Br	e e eler	~	
IP Address Rang	ĸ				
Start					
End					
HTTP Port	80				
Device Port	4520				
D					
Password					

PORT RANGE FORWARD (PORT MAPPING) SETUP

If you have installed a Broadband Router with a camera connected, you must set the port range forwarding on the Broadband Router so that a remote PC can access the camera in it.

Manual Port Range Forwarding

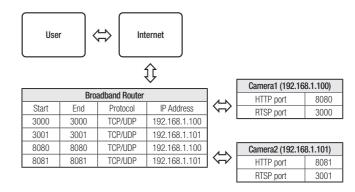
- From the Setup menu of the Broadband Router, select
 Applications & Gaming> <Port Range Forward>.

 For setting the port range forward for a third-party Broadband
 Router, refer to the user guide of that Broadband Router.
- Select <TCP> and <UDP Port> for each connected camera to the Broadband Router.
 The number of each port to be configured to the IP router should be set according to the port number designated in <Setup> - <Basic> - <IP & Port> on the camera web viewer.
- When done, click [Save Settings]. Your settings will be saved.

Applications				Wireless-G	Broadband	Router with !
& Gaming	Setup	Wireless	Secur		ccess trictions	Applications & Gaming
	Port Range F	orward	Port Trip	pering	EWZ I	005
Pert Range Forward						
			Por	t Range		
	Application	Start	End	Protocol	IP Addre	ss Enable
		o to	0	Both 🛩	192.168.1.	
	RTSPL	3000 to	3000	Both 🛩	192.168.1.	L00
	RTSP2	3001 to	3001	Both M	192.168.1.	L01 🗑
	VNP1	4520 to	4820	Both M	192.168.1.	L00
	7892	4521 to	4521	Both M	192.168.1.	L01
	WEB1	0000 to	0050	Both M	192.168.1.	L00
	WEB2	8081 to	8081	Both M	192.168.1.	L01 🖗
		0 to	0	Both 🛩	192.168.1.	
		0 to	0	Both M	192.168.1.	
		0 10	0	Both 🛩	192.168.1.	
				Save Sett	ings Ca	ncel Changes

- Setting up Port Range Forward for several network cameras
- You can set a rule of Port Forwarding on the Broadband Router device through its configuration web page.
- A user can change each port using the camera setting screen.

When Camera1 and Camera2 are connected to a router :



- Port forwarding setting is an example of setting CISCO IP router.
 - The settings may differ depending on the connected Broadband Router model. For more information, refer to the user manual of the applicable router.

Port forwarding can be done without additional router setup if the router supports the UPnP (Universal Plug and Play) function. After connecting the network camera, select the checkbox from the menu <Quick connect> in <Wisenet DDNS> in "Settings -> Network -> DDNS".

CONNECTING TO THE CAMERA FROM A SHARED LOCAL PC

1. Run device manager.

It will scan for connected cameras and display them as a list.

 Double-click a camera to access. The Internet browser starts and connects to the camera.



Access to the camera can also be gained by typing the camera's IP address in the address bar of the Internet browser.

CONNECTING TO THE CAMERA FROM A REMOTE PC VIA THE INTERNET

On a remote computer that is not in the Broadband Router's network cluster is not allowed, users can access cameras within a Broadband Router's network by using the camera's DDNS URL.

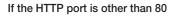
- 1. Before you can access a camera in the Broadband Router network, you should have set the port range forward for the Broadband Router.
- From the remote PC, launch the Internet browser and type the DDNS URL address of the camera, or the IP address of the Broadband Router in the address bar. ex) http://ddns.hanwha-security.com/ID
- To use Wisenet DDNS, sign up at the Wisenet DDNS homepage (http://ddns.hanwha-security.com) and register the product at [My DDNS]>[Register Product].

CONNECTING TO THE CAMERA

Normally, you would

- 1. Launch the Internet browser.
- Type the IP address of the camera in the address bar. ex) • IP address (IPv4) : 192.168.1.100 → http://192.168.1.100
 - the Login dialog should appear.
 - IP address (IPv6) : 2001:230:abcd: ffff:0000:0000:ffff:1111

→ http://[2001:230:abcd:ffff:0000:0000:ffff:1111] - the Login dialog should appear.



- 1. Launch the Internet browser.
- 2. Type the IP address and HTTP port number of the camera in the address bar. ex) IP address : 192.168.1.100:HTTP Port number(8080)
 - \rightarrow http://192.168.1.100:8080 the Login dialog should appear.

Using URL

- 1. Launch the Internet browser.
- Type the DDNS URL of the camera in the address bar.
 ex) URL address : http://ddns.hanwha-security.com/ID
 the Login dialog should appear.

Network connection is disabled in the LAN only environment.

Connecting via UPnP

- 1. Run the client or operating system in support of the UPnP protocol.
- 2. Click the camera name for search.

In the Windows operating system, click the camera name searched from the network menu.

- The login window is displayed.



Connecting via Bonjour

- 1. Run the client or operating system in support of the Bonjour protocol.
- 2. Click the camera name for search. In the Mac operating system, click the camera name searched from the Bonjour tab of Safari.
 - The login window is displayed.

To check the DDNS address

If the camera is connected directly to the DHCP cable modern, DSL modern, the IP address of your network will be changed each time you try to connect to the ISP (Internet Service Provider) server. If this is the case, you will not be informed of the IP address changed by DDNS.

Once you register a dynamic IP-based device with the DDNS server, you can easily check the changed IP when you try to access the device.

To register your device to the <DDNS> server, visit http://ddns.hanwha-security.com and register your device first, and then set the Web Viewer's <Network> - <DDNS> to <Wisenet DDNS>, as well as providing

<Product ID> that had been used for DDNS registration.

PASSWORD SETTING

When you access the product for the first time, you must register the login password.

For a new password with 8 to 9 digits, you must use at least 3 of the following: uppercase/lowercase letters, numbers and special characters. For a password with 10 to 15 digits, you must use at least 2 types of those mentioned.



- For higher security, you are not recommended to repeat the same characters or consecutive keyboard inputs for your passwords.
- If you lost your password, you can press the [RESET] button to initialize the product. So, don't lose your password by using a
 memo pad or memorizing it.

LOGIN

Whenever you access the camera, the login window appears. Enter the User ID and password to access the camera.

- Enter "admin" in the <User name> input box. The administrator ID, "admin", is fixed and can not be changed.
- 2. Enter the password in the <Password> input field.
- 3. Click [OK].

If you have logged in successfully, you will the Live Viewer screen.

- When you access the camera web viewer, pay special attention to the security by checking whether the image data is encrypted.
- If you check the "Remember my credentials" option when your input is done, in future you will be logged in automatically without being prompted to enter the login information.
 - You will experience the best video quality if the screen size is 100%. Reducing the ratio may cut the image on the borders.

Administrator password change		
vew password		
Confirm new password		
hree types upper/lower case alp If the password is 10 to 15 lette	long, then it should be a combination of at least habets, numbers and special characters. Irs long, then it should be a combination of at least	
User name should be different	abets, numbers and special characters. from password. : are available for use. ~`I@#\$%^*0+=I0[].?/	
. Don't use 4 or more characters	consecutive together. (examples : 1234, abcd) repeated. (examples : 1111, aaaa)	

CAMERA WEB VIEWER SETUP

- 1. Click the [Setup (🏟)] icon.
- 2. The Settings window appears.
- 3. You can configure settings for the camera's basic information, video, audio, network, event, analysis, and system over the network.
- 4. Click <Help (?)> to view detailed descriptions of each function.

	User name
24/2	Password
	Remember my credentials

TROUBLESHOOTING

PROBLEM	SOLUTION	
No video is displayed when accessing the plug-in free webviewer on Safari via HTTPS.	 On the authentication popup window prompted when initially accessing https, click "View Authentication Certificate" and select the "Always trust when connecting to the designated webviewer IP" check box. If the webviewer continues failing to display a video after you select "Next" on the message window below, press the command key + Q to exit the Safari browser, access again and follow the procedures stated above. 	
	Check to make sure that the camera's Network settings are appropriate.Check to make sure that all network cables have been connected properly.	
I can't access the camera from a web browser.	 If connected using DHCP, verify that the camera is able to acquire dynamic IP addresses without any problem. 	
	 If the camera is connected to a Broadband Router, verify that port forwarding is properly configured. 	
Viewer got disconnected during monitoring.	 Connected Viewers become disconnected upon any change to camera or network configurations. Check all network connections. 	
No video is displayed when I newly access the webviewer or connect streaming to the client.	vebviewer or connect I ne connection may be lost if you use 4 or more of profiles. Example) If you access MIPEG H264 and H265 and then access with a different profile the	
The camera connected to the network is not detected in the Device Manager program.	• Turn off the firewall settings on your PC and then search the camera again.	
Images overlap.	 Check whether two or more cameras are set to a single multicast address instead of different addresses. If a single address is used for multiple cameras, the images may overlap. 	
No image appears.	• If the transmission method is set to multicast, check whether there is a router that supports multicast in the LAN the camera is connected to.	

PROBLEM	SOLUTION	
<motion detection=""> of <analytics> is set to <enable>, but no notification e-mail reaches me even when an analysis event had occurred.</enable></analytics></motion>	 Verify the settings in the following sequence: A. Check <data &="" time=""> settings.</data> B. The <motion detection=""> should be set to <enable>.</enable></motion> C. Check if the <e-mail> option of <event setup=""> menu is checked to use.</event></e-mail> 	
Cannot record into the Micro SD memory card.	Check if the memory card is defective.	
Micro SD memory card is inserted but the camera does not operate properly.	 Check if the memory card is inserted in the proper direction. Operation of memory card that is formatted by other devices is not guaranteed with this camera unit Format the memory card again in <setup> → <event> → <storage> menu.</storage></event></setup> 	
Cannot record in the NAS.	Confirm that the information registered in the NAS is correct.	
It reports that NAS setting has failed.	 Confirm that the IP address of the NAS is valid. Confirm that the ID/password of the NAS is valid. Confirm that you can access the folder designated as the default folder using the ID of the NAS. Confirm that the NAS SMB/CIFS items are unchecked. Confirm that the NAS IP address and the camera IP address are in the same format. ex) The NAS & camera subnet mask initial value is 255.255.255.0. If the IP address is 192.168.20.32 then the NAS IP address should be in the range of 192.168.20.1~192.168.20.255. Check whether you tried to access as another user without formatting the default folder saved or used. Confirm that you used recommended NAS equipment. 	

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Component Name	License	URL
Base Kernel	GPL 2.0	
Busybox	GPL 2.0	http://www.busybox.net/downloads/snapshots
iproute2-4.3.0	GPL 2.0	
iptables-1.4.21	GPL 2.0	http://ftp.netfilter.org/pub/iptables
ethtool-4.2	GPL 2.0	
mtd-1.5.2	GPL 2.0	ftp://ftp.infradead.org/pub/mtd-utils
mii-diag-2.11	GPL 2.0	
rp-pppoe-3.11	GPL 2.0	http://www.roaringpenguin.com/pppoe/
wpa_supplicant-2.5	GPL 2.0	
bash-4.3.30	GPL 3.0	
zeroconf	GPL 2.0	

LGPL SW

Component Name	License	URL
gLibc	LGPL 2.0	
Inetutils	LGPL 3.0	
neon-0.29.6	LGPL 2.0	http://www.webdav.org/neon/

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The implementation was written so as to conform with Netscapes SSL

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Version 1.1

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established by T-Engine Forum on January 23, 2004 revised on June 17, 2004 revised on December 21, 2006 revised on March 24, 2009

Article 1. Scope of License Agreement

1. This License Agreement sets forth copyrights and the terms and conditions of use applicable to the source code of T-Kernel distributed by T-Engine Forum and any derivative work created therefrom.

Article 2. Definition

1. "T-Kernel" means a real-time operating system controlled and distributed by T-Engine Forum on behalf of the copyright holder thereof.

2. "Source Code" means a source program, including related comments and documentations, for the T-Kernel and the Ported Source Code defined in Article 2.8 which is registered with T-Engine Forum.

3. "Hardware-dependent Part" means the part of the Source Code which depends on hardware and needs to be changed when the Source Code is ported and operated on the target hardware, and is designated and separated as such part.

4. "Compiler-dependent Part" means the part of the Source Code which depends on compiler and needs to be changed when the Source Code is ported and operated on the target hardware, and is designated and separated as such part.

5. "Header File" means the part of the Source Code which contains definitions necessary to develop application programs.

"T-Engine Hardware" means the hardware which is manufactured in accordance with the T-Engine Hardware specifications or the µT-Engine Hardware specifications issued by T-Engine Forum, and registered with T-Engine Forum.

7. "Similar Hardware to T-Engine Hardware" means any hardware (including software which emulates hardware) other than that defined in Article 2.6 above, on which the T-Kernel can be operated.

8. "Ported Source Code" means a source program produced from the Source Code by modifying only its Hardwaredependent Part and/or Compiler-dependent Part to enable it to be operated on the T-Engine Hardware or the Similar Hardware to T-Engine Hardware. The Ported Source Code which is registered with T-Engine Forum shall be included in the Source Code.

9. "Modified Source Code" means a source program modified from the Source Code for the purpose of improving its performance, increasing or decreasing its function, and the like. The Ported Source Code shall not be included in the Modified Source Code.

10. "Binary Code" means an executable code form which is created by compiling programs, which include all or part of the Source Code or the Modified Source Code.

11. "Derivative Work" means the Modified Source Code or the Binary Code.

12. "Embedded Product" means any product which operates with executable code form of the Source Code, the Modified Source Code or the Binary Code loaded on its hardware.

13. "End User" means a consumer who uses the Embedded Product.

14. "System Developer" means any person who develops the Embedded Product by itself or has a third party develop the same, and provides, whether with or without payment, the End User with the Embedded Product.

15. "Distributor of Modification" means any person who produces the Modified Source Code and, whether with or without payment, distributes the same to any third party.

16. "Patch for Modification" means a difference, program, system, or the like in order to create the Modified Source Code from the Source Code or the Binary Code thereof.

17. "Vicarious Execution of Patch Processing" means vicarious execution service to create the Modified Source Code applying the Patch for Modification to the Source Code or the Binary Code thereof.

18. "Source Code User" means a person who uses the Source Code.

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to transmit a work to the general public through the Internet communication, broadcasting, and the like automatically in response to a request from the public; and

3. to distribute a copy of a work to the general public or a large number of specific persons.

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1. to perform any and all acts set forth in the Article 4.3 above.

to develop and manufacture the Embedded Product containing the Binary Code, and, whether with or without payment, provide the End User with the same and make the Binary Code available to the End User on the Embedded Product.

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Article 5. Distribution of Modified Source Code

1. Any of A- members of T-Engine Forum may become the Distributor of Modification by obtaining the approval of T-Engine Forum through the registration procedure as prescribed by the Forum provided that only the department of the A- member which has taken the registration procedure may distribute the Modified Source Code in such a way as provided for in this Article as long as it holds the Amembership.

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 The Distributor of Modification shall, prior to the distribution, inform T-Engine Forum of and register a name and description of the Modified Source Code in such a way as specified by T-Engine Forum.

4. The Distributor of Modification shall determine the name of the Modified Source Code subject to the rules separately established by T-Engine Forum and publish an appropriate notice as required by the rules on the Patch for Modification and the Modified Source Code.

5. The Distributor of Modification may distribute the Modified Source Code to a third party, whether with or without payment, provided that the Distributor of Modification shall take the necessary measures to prohibit the third party from making the re-Distribution of the Modified Source Code.

 Developer with the Patch for Modification. Provided, however, that the Distributor of Modification shall be obligated to confirm that the System Developer is the Source Code User duly licensed under Article 4.1.

7. The Distributor of Modification may perform the Vicarious Execution of Patch Processing for the System Developer.

8. The System Developer shall not distribute the Modified Source Code in further modified form to any third party as a stand-alone software product.

9. The System Developer may, under the same obligation as imposed in Article 4.5, make the Embedded Product available for the End User through use of the Patch for Modification distributed by the Distributor of Modification or the Derivative Works obtained through the Vicarious Execution of Patch Processing.

Article 6. Distribution and Registration of the Ported Source Code

1. The Source Code User and the System Developer may, whether with or without charge, distribute to any third party only the following parts of the Ported

Source Code on the T-Engine Hardware or the Similar Hardware to T-Engine Hardware:

The Hardware-dependent Part and/or Compiler-dependent Part; provided that the Source Code User and the System Developer shall inform T-Engine Forum
of, and T-Engine Forum may publish, a method for distributing said Part(s) to third parties.

2. The Header File; provided that the Header File shall be distributed together with the Binary Code of the Ported Source Code.

 Any member of T-Engine Forum may request T-Engine Forum to register and distribute, as an original source code for T-Kernel, the Ported Source Code on the T-Engine Hardware or the Similar Hardware to T-Engine Hardware.

3. Any member of T-Engine Forum who requests the distribution mentioned in the preceding paragraph shall accede to the following conditions:

1. The member shall confirm that the object hardware is the T-Engine Hardware or the Similar Hardware to T-Engine Hardware.

The member shall provide T-Engine Forum with a complete set of operational environment for the object hardware and T-Kernel free of charge when requesting the distribution.

3. The member shall submit test results of the Ported Source Code to T-Engine Forum when requesting the distribution.

4. In the event that T-Engine Forum accepts the request mentioned in Article 6.2, T-Engine Forum shall register and distribute the Ported Source Code as the Source Code for T-Kernel. Provided, however, that the Ported Source Code may be treated in the same way as the Modified Source Code until the time of registration hereunder.

5. The provision set forth in Article 3 shall apply to the Ported Source Code registered in accordance with this Article.

Article 7. Use for Other Purpose

1. Any use of the Source Code, the Modified Source Code or the Ported Source Code other than those stipulated in Articles 4, 5 and 6 shall be subject to the prior approval of T-Engine Forum.

Article 8. Limited Warranty

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bzip2/libbzip2 version 1.0.5 of 10 December 2007

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



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