

WISENET

THERMAL NETWORK CAMERA

User Manual

TNO-4030T/TNO-4040T/TNO-4041T
TNO-4050T/TNO-4051T
TNO-4030TR/TNO-4040TR/TNO-4041TR



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Thermal 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.

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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.
6. 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 lightning 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.
15. This product is intended to be supplied by a Listed Power Supply Unit marked "Class 2" or "LPS" and rated from 24 Vac (50/60 Hz) min.0.91 A or 12 Vdc, min.0.83 A.
16. 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.
17. 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.
18. 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.
19. 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.
20. Installing or using the product in water can cause serious damage to the product.



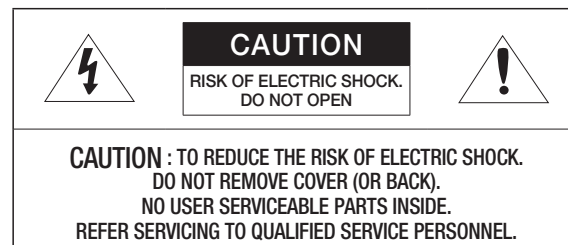
WARNING

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 OPENINGS 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.

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.

The CVBS out terminal of the product is provided for easier installation, and is not recommended for monitoring purposes.

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.

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RECOMMENDED PC SPECIFICATIONS

- CPU : Intel(R) Core(TM) i7 3.4 GHz or higher
 - RAM : 8G or higher
 - Supported OS : MS Windows, Mac OS X
 - Recommended browser: Google Chrome
Supported browsers: MS Explorer, MS Edge, Mozilla Firefox (Window 64bit only), Apple Safari (Mac OSX only)
- ※ Please see the appendix for detailed information on verified OS and browsers.

RECOMMENDED MICRO SD/SDHC/SDXC MEMORY CARD SPECIFICATIONS

- Recommended capacity : 16GB to 256GB (MLC type)
- The following types of memory cards from the following manufacturers are recommended for this camera.
 - Manufacturer : SanDisk, Transcend
 - Product family : High endurance

NAS RECOMMENDED SPECS

- Recommended capacity : 200GB or higher is recommended.
- Simultaneous access : One unit of NAS can accept a maximum of sixteen camera accesses.
- For this camera, you are recommended to use a NAS with the following manufacturer's specs.

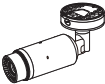
Recommended products	Available sizes
QNAP NAS	A maximum of 16 cameras can access simultaneously.
Synology NAS	A maximum of 16 cameras can access simultaneously.



- If you use NAS equipment for purposes other than video saving, the number of accessible cameras may be reduced.

WHAT'S INCLUDED (TNO-4030T/4040T/4050T/4030TR/4040TR)

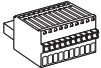
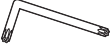
Please check if your camera and accessories are all included in the product package.
(As for each sales country, accessories are not the same.)

Appearance	Item Name	Quantity	Description
	Camera	1	
	Instruction book, Installer S/W CD	1	
	Quick Guide (Optional)	1	
	Warranty card (Optional)	1	
	Cable for the testing monitor	1	Used to test the camera connection to a portable display device
	Template	1	Product installation guide
	Power Terminal Block	1	Plugged in the power plug
	Audio/alarm Terminal Block	1	Plugged in the audio/alarm plug
	Power Cable	1	Used to plug into the power port

Appearance	Item Name	Quantity	Description
	L Wrench	1	Used to control the direction of the camera
	Audio/alarm cable	1	Used to connect with the audio and alarm port
	Tapping Screw	4	Used for installation on the wall or ceiling
	Sunshield	1	It protects the camera from the direct sunlight.
	Sunshield Hold	1	It fixes the sunshield with the camera.
	BASE WALL MOUNT	1	The adapter that should be adjusted in order to hang the camera on the wall
	Cable bush	1	Used to connect the LAN cable with a diameter of Ø7~8.5.

WHAT’S INCLUDED (TNO-4041T/4051T/4041TR)

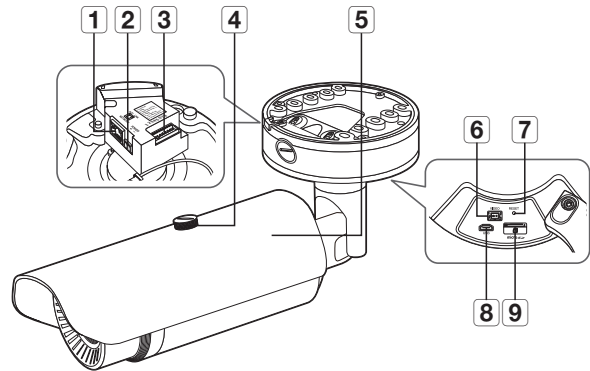
Please check if your camera and accessories are all included in the product package.
(As for each sales country, accessories are not the same.)

Appearance	Item Name	Quantity	Description
	Camera	1	
	Instruction book, Installer S/W CD	1	
	Quick Guide (Optional)	1	
	Warranty card (Optional)	1	
	Cable for the testing monitor	1	Used to test the camera connection to a portable display device
	Power Terminal Block	1	Plugged in the power plug
	Audio/alarm Terminal Block	1	Plugged in the audio/alarm plug
	Power Cable	1	Used to plug into the power port
	Star-Shape wrench	1	Used to fasten the PT bracket to the main body

Appearance	Item Name	Quantity	Description
	Audio/alarm cable	1	Used to connect with the audio and alarm port
	Sunshield	1	It protects the camera from the direct sunlight.
	Sunshield Hold	1	It fixes the sunshield with the camera.
	Waterproof stopper	1	Used to block a hole from which the cable does not come out
	Waterproof adapter	1	Cable range: Ø2mm(minimum) ~ Ø6mm(maximum) Used for connecting cables (Ex: Power cable) ※ Provided cable glands from the camera will be applicable to Ø4.5mm(minimum) ~ Ø10mm(maximum) cable

AT A GLANCE (TNO-4030T/4040T/4050T/4030TR/4040TR)

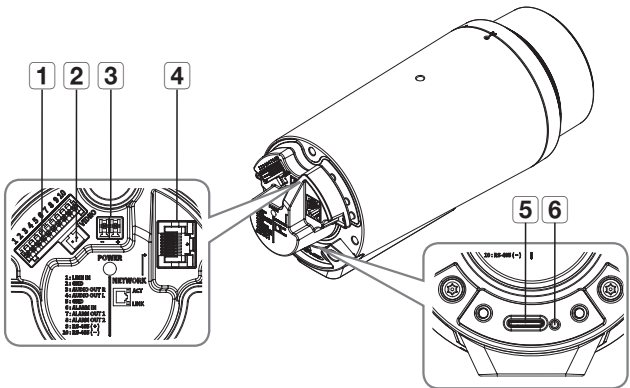
Appearance & Components



Item	Description
1 Network Port	Used to connect the PoE or Ethernet cable for network connection.
2 Power Port	Used to plug the power cable.
3 Audio and alarm cable port	Port to connect audio and alarm cables.
4 Sunshield Hold	It fixes the sunshield with the camera.
5 Sunshield	It protects the camera from the direct sunlight.
6 Test Monitor Out	Output port for test monitoring the video output. Use the test monitor cable to connect to a mobile display and check the test video.
7 Reset Button	The button restores all camera settings to the factory default. Press and hold for about 5 seconds to reboot the system. ■ 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 IP Installer program to change the basic network settings such as IP address, Subnet mask, Gateway, etc., before you can connect to the network.
8 MICRO USB port	Port to connect the Wi-Fi dongle. You can check the installation video through the applications installed in the smartphone. Refer to "Connect to WiFi dongle" on page 15. ■ WiFi dongle and OTG adapter are sold separately.
9 Micro SD card slot	This is a slot in which you can insert a Micro SD card.

AT A GLANCE (TNO-4041T/4051T/4041TR)

Appearance & Components



Item	Description
1 Audio and alarm cable port	Port to connect audio and alarm cables.
2 Test Monitor Out	Output port for test monitoring the video output. Use the test monitor cable to connect to a mobile display and check the test video.
3 Power Port	Used to plug the power cable.
4 Network Port	Used to connect the PoE or Ethernet cable for network connection.
5 Micro SD card slot	This is a slot in which you can insert a Micro SD card.
6 Reset Button	The button restores all camera settings to the factory default. Press and hold for about 5 seconds to reboot the system. ■ 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 IP Installer program to change the basic network settings such as IP address, Subnet mask, Gateway, etc., before you can connect to the network.

INSTALLATION (TNO-4030T/4040T/4050T/4030TR/4040TR)

- ! ■ This camera is waterproof and in compliance with the IP66 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.

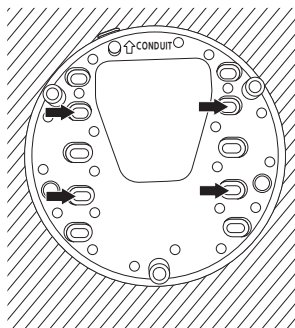
Precautions before installation

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

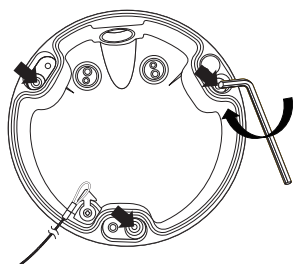
- It must be installed on the area (ceiling or wall) that can withstand 5 times the weight of the camera including the installation bracket.
- Stuck-in or peeled-off cables can cause damage to the product or a fire.
- For safety purposes, keep anyone else away from the installation site. And put aside personal belongings from the site, just in case.
- Do not use the sunshield hole for any purpose other than for connecting the sunshield.
- 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.

Installation

1. Use the four tapping screws provided to secure the base wall mount.

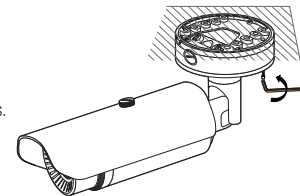


2. Hang the safety cable up on a hook that looks like an arrow in the Bottom cover.
3. Connect the appropriate cables with camera terminals.
4. After placing the bottom cover on the base wall mount, use the L wrench provided to connect and secure the three screws.
5. After placing the camera on the bottom cover, use the L wrench provided to connect the three screws on the top cover.



6. Adjust the camera direction using the L wrench provided.

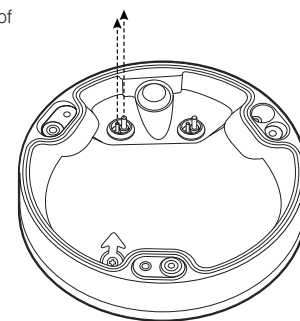
- ! ■ When you adjust the camera position using a bracket, please loosen the bracket screw, adjust the camera, and tighten it. If you attempt to adjust it forcibly while the screw is tight, it may result in a scratch or other problems.



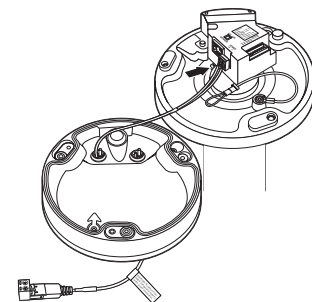
Connecting waterproof power cable and LAN cable

1. Pick off the extruded part of the rubber cover on the bottom side of the bottom cover as shown in the figure below.

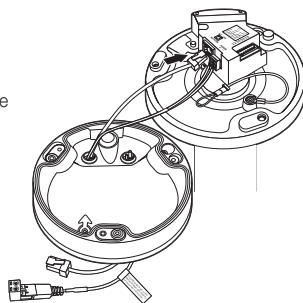
- ! ■ Use an appropriate cable bush for the LAN cable to be connected.
- Basic camera : Use the cable with a diameter of $\varnothing 5 \sim 6.5$.
 - Components provided : Use the cable with a diameter of $\varnothing 7 \sim 8.5$.



2. Insert the power cable into the small hole made by removing the projected part of the rubber plug in step 1 above.
3. Connect the power cable with the power terminal block.

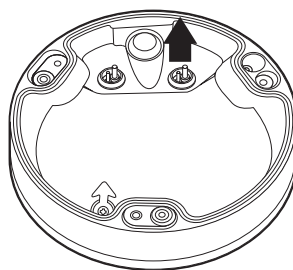


4. Insert the LAN cable into the large hole made by removing the projected part of the rubber plug in step 1 above.
5. Remove the sheath with a cable cutter, and align the cables.
6. Connect the LAN cable with a LAN connector, and insert it into the LAN tool.
7. Connect the finished cable to the Ethernet port.

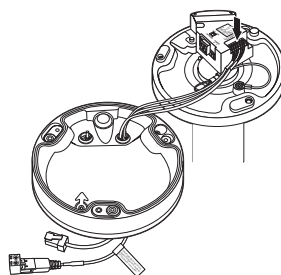


Connecting the alarm and audio cable

1. Remove the rubber cover on the bottom side of the bottom cover as shown in the figure below.



2. Insert the alarm/audio cable through the hole created by removing the rubber cap in No. 1, and connect the cable to the alarm terminal.
3. Align the cable so that it should not be damaged or jammed when installing the camera.
4. Put the rubber cap located on the alarm/audio cable in the hole.



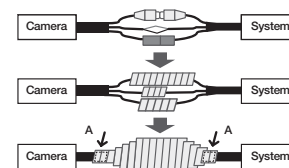
Outdoor installation

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 to cables, such as I/O and audio.
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.



INSTALLATION (TNO-4041T/4051T/4041TR)



- This camera is waterproof and in compliance with the IP66 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.

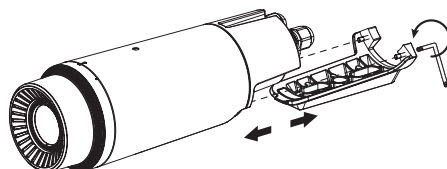
Precautions before installation

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.
- Do not use the sunshield hole for any purpose other than for connecting the sunshield.
- 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.

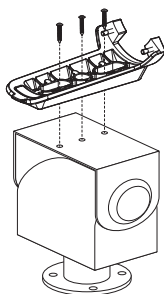
Installation

1. Use the star-shaped wrench to separate the PT bracket from the main body.



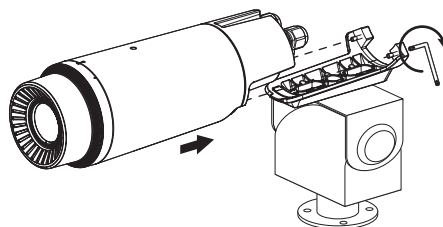
2. Tighten the PT driver and PT bracket by fixing screws into the three holes as shown in the figure.

 ■ PT driver is not provided.



3. Use the star-shaped wrench to tighten the PT bracket and main body.

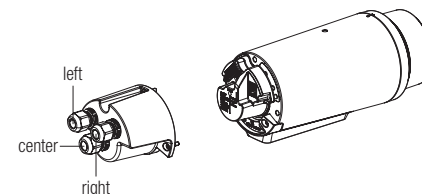
 ■ When you adjust the camera position using a bracket, please loosen the bracket screw, adjust the camera, and tighten it. If you attempt to adjust it forcibly while the screw is tight, it may result in a scratch or other problems.



Connecting waterproof power cable and LAN cable

1. Pick off the extruded part of the rubber cover on the bottom side of the bottom cover as shown in the figure below.

-  ■ Use an appropriate cable bush for the LAN cable to be connected.
- Basic camera : Use the cable with a diameter of $\varnothing 5 \sim 6.5$.
 - Components provided : Use the cable with a diameter of $\varnothing 7 \sim 8.5$.



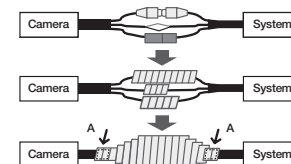
2. Insert the power cable into the center hole made by removing the projected part of the rubber plug in step 1 above.
3. Connect the power cable with the power terminal block.
4. Insert the LAN cable into the right hole made by removing the projected part of the rubber plug in step 1 above.
5. Remove the sheath with a cable cutter, and align the cables.
6. Connect the LAN cable with a LAN connector, and insert it into the LAN tool.
7. Connect the finished cable to the Ethernet port.
8. Insert the terminal block cable into the left hole made by removing the projected part of the rubber plug in step 1 above.

Outdoor installation

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 to cables, such as I/O and audio.
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.

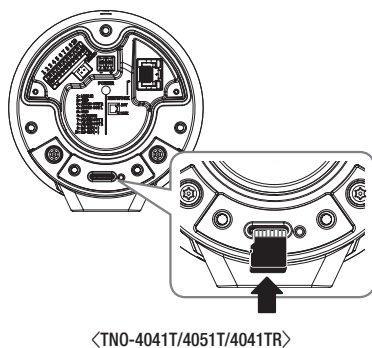
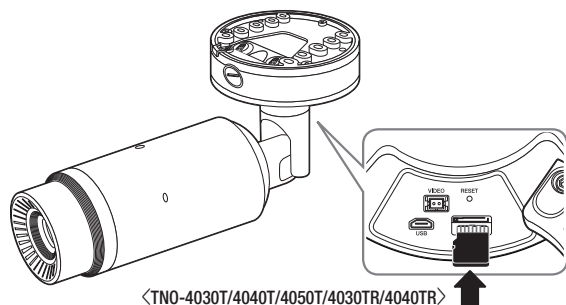


INSERTING/REMOVING A MICRO SD MEMORY CARD

- ❗
 - 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.

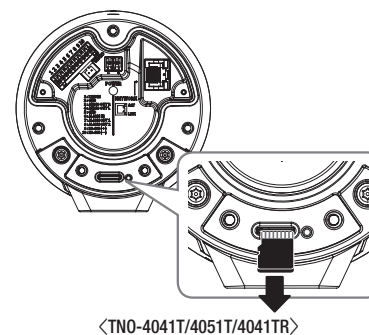
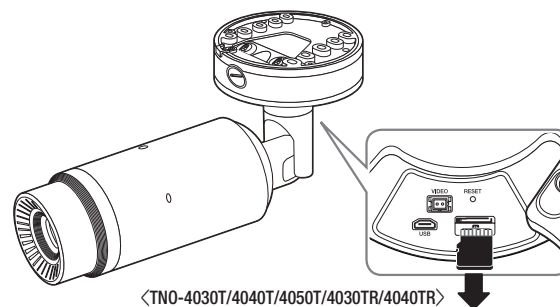
Inserting a Micro SD Memory Card

Insert a Micro SD card in the arrow direction shown in the figure.



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.

MEMORY CARD INFORMATION (NOT INCLUDED)

What is a memory card?

The memory card is an external data storage device that has been developed to offer an entirely new way to record and share video, audio, and text data using digital devices.

Selecting a memory card that's suitable for you

Your camera supports Micro SD/SDHC/SDXC memory cards.

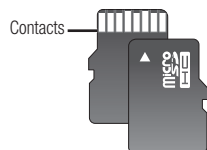
You may, however, experience compatibility issues depending on the model and make of the memory card.

The following types of memory cards from the following manufacturers are recommended for this camera.

- Manufacturer : SanDisk, Transcend
- Product family : High endurance

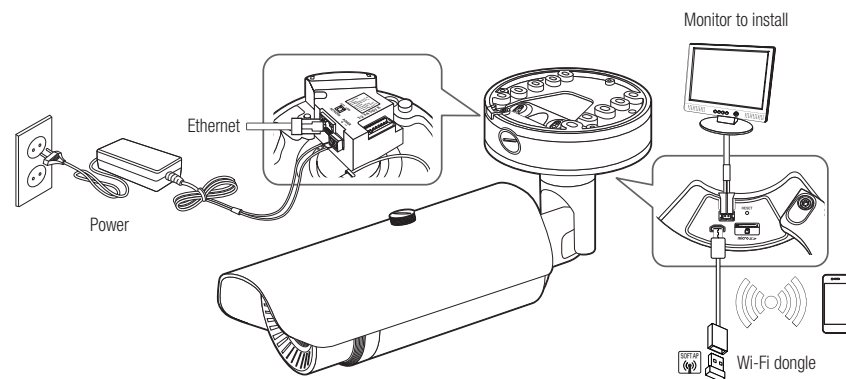
It is recommended to use a 16GB to 256GB (MLC type) memory card for this camera.

Playback performance can be affected depending on the speed of memory card.

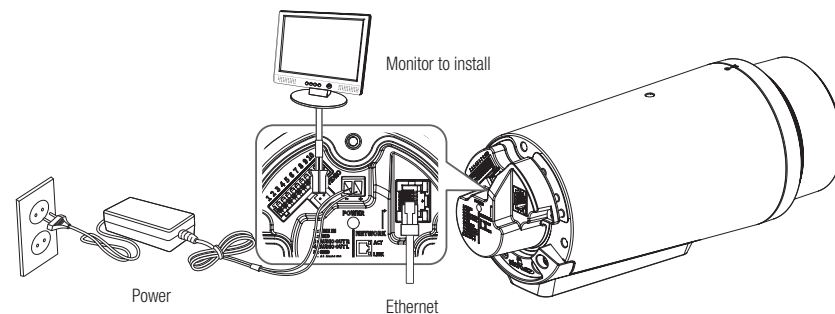


Micro SD/SDHC/SDXC

CONNECTING WITH OTHER DEVICE



<TNO-4030T/4040T/4050T/4030TR/4040TR>



<TNO-4041T/4051T/4041TR>



- The CVBS out terminal of the product is provided for easier installation, and is not recommended for monitoring purposes.
- The Micro USB out terminal of the product is provided for easier installation, and is not recommended for monitoring purposes.
- If the screen freezes for about 1-2 seconds at a certain time interval or when there is a change in the temperature of the surrounding area, this is normal; the screen is simply undergoing a calibration process.

Ethernet Connection

Connect the Ethernet cable to the local network or to the Internet.

Connecting Wi-Fi (TNO-4030T/4040T/4050T/4030TR/4040TR)

Camera Setup

1. Connect OTG adapter (5-pin) and WiFi dongle to the micro USB terminal.

Smartphone Setup

1. Install the Wisenet Installation application.
2. Select the camera SSID after turning on the WiFi.
3. Run the Wisenet Installation application.
4. When you log in to the camera, the video will be connected. (initial password: 4321)
 - The video will be played without being logged in during the initial connection.
5. You can adjust angle of view while watching the video through smartphone.

Recommended dongle manufacturer

Manufacturer	Model
NETIS	WF2123 n300
EDIMAX	EW-7811Un
IP Time	N100mini
TP-LINK	TL-WN823N V1
ASUS	USB-N13
NETGEAR	WNA3100M

Power Supply

Use the screwdriver to connect each line (+, -) of the power cable to the corresponding power port of the camera.

- When supplying PoE and DC 12V or PoE and AC 24V power at the same time, the equipment is powered by the external source (AC 24V, DC 12V).
 - You can also use a router featuring PoE to supply power to the camera.
 - Use PoE that is compliant with the IEEE 802.3af protocols.
 - It is recommended to use a single source for powering the equipment among PoE, DC 12V and AC 24V.
- Be careful not to reverse the polarity when you connect the power cable.
- When the power is initially turned on, time is needed to allow the screen to stabilize. For this reason, a screen calibration is performed when the power is initially turned on.
- If you want to connect an external device, you must turn off the external device before proceeding.
- Connect the set and the adapter power line first, and then connect the power cable to the outlet on the wall.

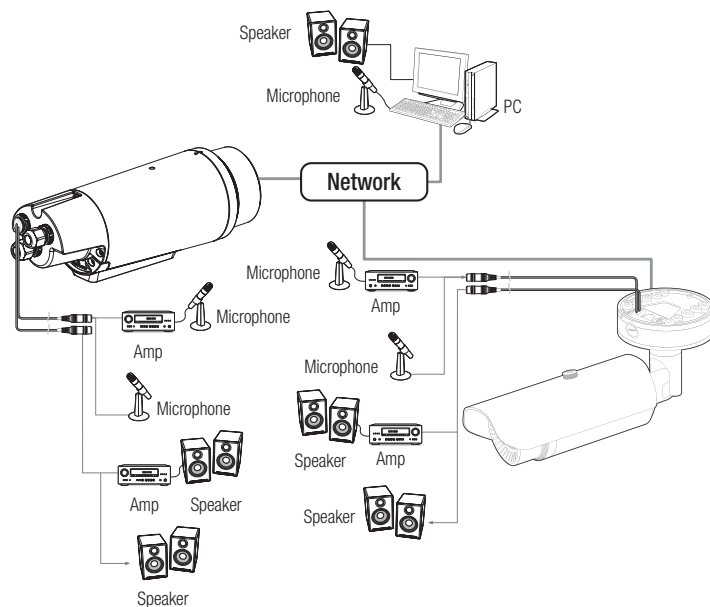
Power Cable Specification for Each Model

Input power	Wire Type (AWG)	Cable Length (Max.)
DC 12V	#18	19m
	#16	30m
AC 24V	#20	26m
	#18	40m

Network Cable Specification

Item	Contents	Remark
Connector	RJ45	
Ethernet	10/100Base-T	10/100 Mbps
Cable	UTP Category 5e	
Max Distance	100M	
PoE Support	IEEE 802.3af	

Connecting to Audio Input/Output



1. Connect the AUDIO IN port of the camera with the microphone or LINE OUT port of the amplifier that the microphone is connected to.
2. Connect the AUDIO OUT port of the camera with the speaker or LINE IN port of the amplifier that the speaker is connected to.
3. Check the specifications for audio input.

• Audio Codec

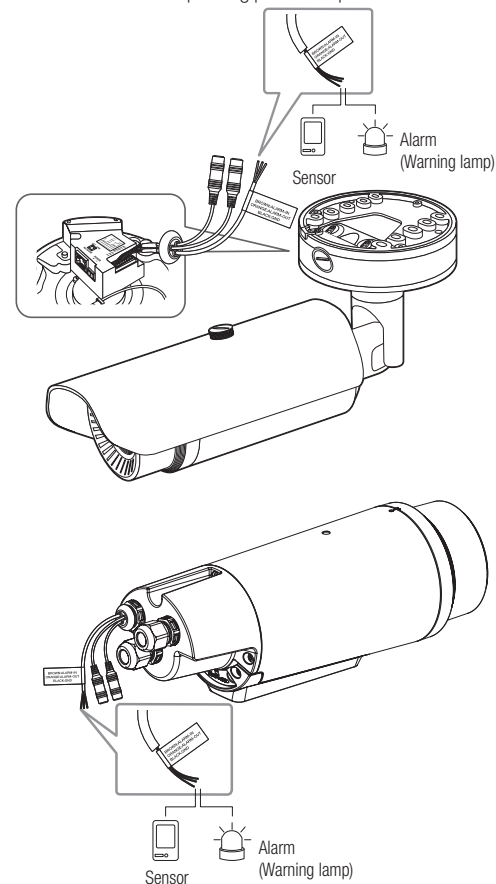
- Audio In : G.711 PCM (Bit Rate: 64kbps / Sampling Frequency: 8kHz), G.726 ADPCM (Bit Rate: 16Kbps, 24Kbps, 32Kbps, 40Kbps / Sampling Frequency: 8kHz), AAC (Bit Rate: 48Kbps / Sampling Frequency: 16kHz)
- Audio Out : G.711 PCM (Bit Rate: 64kbps / Sampling Frequency: 8kHz)

• Full duplex Audio

- **Audio in** : Selectable (microphone/Line-in), Supported voltage: 2.5VDC (4mA), Input impedance: 2K Ohm
- **Audio out** : Line-out (3.5mm mono jack), Maximum output: 1Vms
- **Line out impedance** : 600Ω

Connecting to the I/O port box

Connect the Alarm I/O cable to the corresponding port of the port box.



- **ALARM-IN** : Used to connect the alarm input sensor or external day/night sensor.
- **ALARM-OUT** : Used to connect the alarm output signal.
- **GND** : Common port for alarm in/output signal.

! If devices (e.g., flashing light and siren) that exceed the voltage and current specifications are connected by using the open collector method, it may cause malfunction. Refer to the "Alarm Out Wiring Diagram" when connecting devices that exceed the voltage and current specifications.

RS-485 setup (TNO-4041T/4051T/4041TR)

All these operations above mentioned will be enabled only if the network camera is properly connected to the pan/tilt-compliant receiver. And the serial port for the pan/tilt operations should be properly specified.

- Check the functions supported by the receiver when it is connected. Some functions may be disabled depending on the receiver or protocol specification. Refer to the following table for more details.

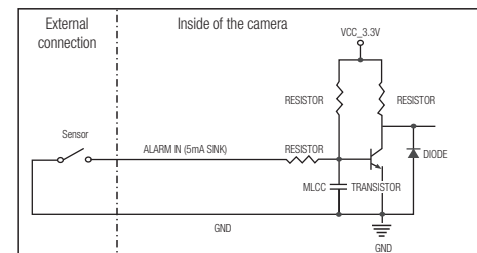
Functions Supported for Each Protocol

Protocol	P control	P movement speed	T control	T movement speed	Preset	Remarks
SAMSUNG-T	0	0 (1~6)	0	0 (1~6)	0	
PELCO-D	0	0 (1~6)	0	0 (1~6)	0	
PELCO-P	0	0 (1~6)	0	0 (1~6)	0	
SUNGJIN	0	X	0	X	0	PT direction (Up, down, left, bottom)
PANASONIC	0	0 (1~6)	0	0 (1~6)	0	
HONEYWELL	0	0 (1~6)	0	0 (1~6)	0	
AD	0	0 (1~6)	0	0 (1~6)	0	
VICON	0	0 (1~6)	0	0 (1~6)	0	
GE	0	0 (1~6)	0	0 (1~6)	0	
BOSCH	0	0 (1~6)	0	0 (1~6)	X	

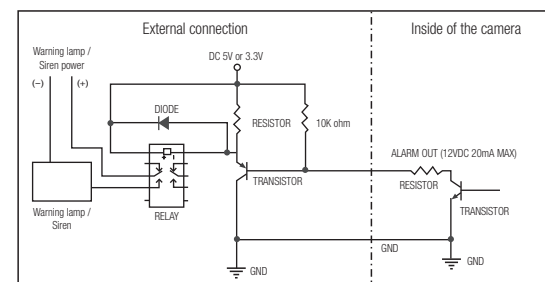
To connect the external sensor

Connect one strand of each signal line (2-strand) of the sensors to the [ALARM IN] port, and connect the other strand to the [GND] port.

Alarm In Wiring Diagram



Alarm Out Wiring Diagram



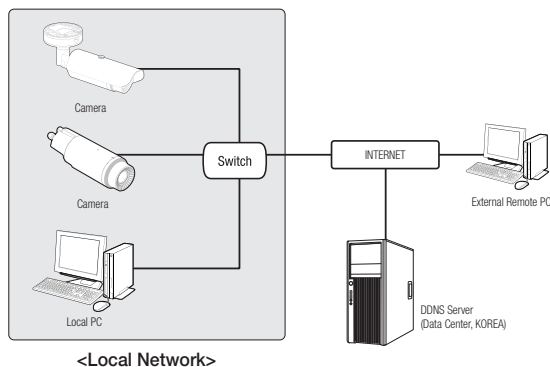
network connection and setup

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

CONNECTING THE CAMERA DIRECTLY TO LOCAL AREA NETWORKING

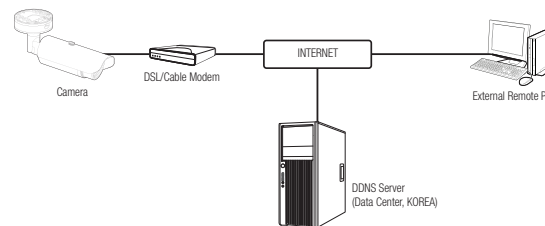
Connecting to the camera from a local PC in the LAN

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.
- In the IP installer, you can use the initial password, "4321" to set IP Address, Subnet Mask, Gateway, HTTP Port, VNP Port, IP type. After changing the network interface, for better security, access the web viewer and change the password.
- 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 IP Installer. For further details on IP Installer use, refer to "Static IP Setup". (Page 20)

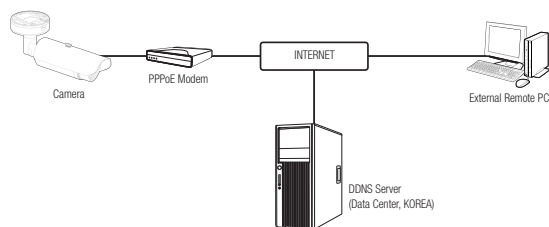
CONNECTING THE CAMERA DIRECTLY TO A DHCP BASED DSL/CABLE MODEM



1. Connect the user PC directly with the network camera.
2. Run the IP Installer 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, refer to the online help of Web Viewer.

CONNECTING THE CAMERA DIRECTLY TO A PPPoE MODEM

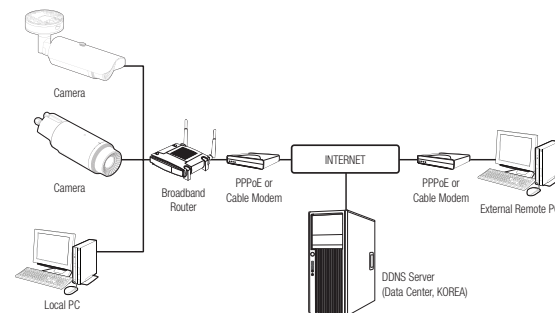


1. Connect the user PC directly with the network camera.
2. Run the IP Installer and change the IP address of the camera so that you can use the web browser on your desktop to connect to the Internet.
3. Use the Internet browser to connect to the web viewer.
4. Move to **[Setup]** page.
5. Move to **[Network]** – **[DDNS]** and configure the DDNS settings.
6. Move to **[Basic]** – **[IP & Port]** Setup Page, set the IP type to **[PPPoE]**, and enter the network service's ID and password.
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, refer to the online help of Web Viewer.

CONNECTING THE CAMERA TO A BROADBAND ROUTER WITH THE PPPoE/CABLE MODEM

This is for a small network environment such as homes, SOHO and ordinary shops.

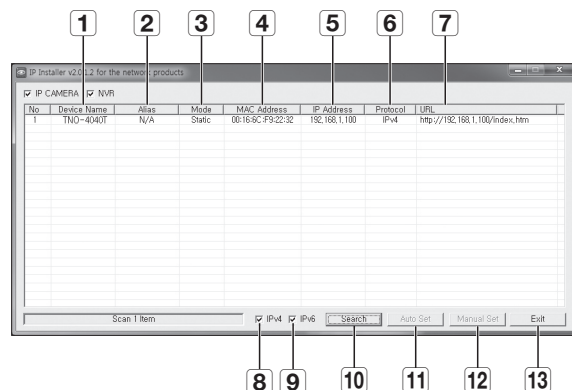


Configuring the network settings of the local PC connected to a Broadband Router

Configuring the network settings of the local PC connected to a Broadband Router, follow the instructions below.

- Select : **<Network> → <Properties> → <Local Area Connection> → <General> → <Properties> → <Internet Protocol (TCP/IP)> → <Properties> → <Obtain an IP address automatically> or <Use the following IP address>**.
- Follow the instructions below if you select **<Use the following IP address>**:
 - ex1) If the address (LAN IP) of the Broadband Router is 192.168.1.1
 IP address : 192.168.1.100
 Subnet Mask : 255.255.255.0
 Default Gateway : 192.168.1.1
 - ex2) If the address (LAN IP) of the Broadband Router is 192.168.0.1
 IP address : 192.168.0.100
 Subnet Mask : 255.255.255.0
 Default Gateway : 192.168.0.1
 - ex3) If the address (LAN IP) of the Broadband Router is 192.168.xxx.1
 IP address : 192.168.xxx.100
 Subnet Mask : 255.255.255.0
 Default Gateway : 192.168.xxx.1
- For the address of the Broadband Router, refer to the product's documentation.
- For more information about port forwarding of the broadband router, refer to **"Port Range Forward (Port Mapping) Setup"**. (Page 22)

BUTTONS USED IN IP INSTALLER



Item	Description
1 Device Name	Model name of the connected camera. Click the column to sort the list by model name. However, search will be stopped if clicked during the search.
2 Alias	This function is not currently implemented.
3 Mode	Displays either <Static>, <Dynamic> or <PPPoE> for the current network connection status.
4 MAC(Ethernet) Address	Ethernet address for the connected camera. Click the column to sort the list by Ethernet address. However, search will be stopped if clicked during the search.
5 IP Address	IP address. Click the column to sort the list by IP address. However, search will be stopped if clicked during the search.
6 Protocol	Network setting for the camera. The factory default is "IPv4". Cameras with the IPv6 setting will be displayed "IPv6".
7 URL	DDNS URL address enabling access from the external Internet. However, this will be replaced with the <IP Address> of the camera if DDNS registration has failed.
8 IPv4	Scans for cameras with the IPv4 setting.

Item	Description
9 IPv6	Scans for cameras with the IPv6 setting. Activated in an IPv6 compliant environment only.
10 Search	Scans for cameras that are currently connected to the network. However, this button will be grayed out if neither IPv4 nor IPv6 is checked.
11 Auto Set	The IP Installer automatically configures the network settings.
12 Manual Set	You should configure the network settings manually.
13 Exit	Exits the IP Installer program.



- For the IP installer, use only the installer version provided in the installation CD or use the latest one if available. You can download the latest version from the Hanwha Techwin web site.
- If the supporting OS is Windows 8.1, it is recommended that you use the Wisenet Device Manager instead of the IP Wisenet. The Wisenet Device Manager Program can be downloaded by visiting the Hanwha Techwin website (<http://www.hanwha-security.com>) under the menu <Technical Guides> - <Online Tool>.

STATIC IP SETUP

Manual Network Setup

Run <IP Installer_v2.XX.exe> to display the camera search list.
At the initial startup, both [Auto Set] and [Manual Set] will be grayed out.

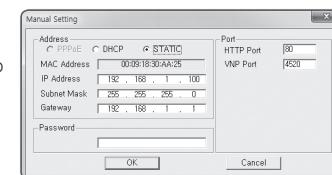
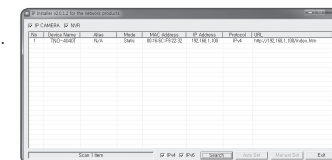


- For cameras found with the IPv6 setting, these buttons will be grayed out as the cameras do not support this function.

- Select a camera in the search list.
Check the MAC address of the camera on the camera's label.
Both the [Auto Set] and [Manual Set] buttons will be activated.
- Click [Manual Set].
The Manual Setting dialog appears.
<IP Address>, <Subnet Mask>, <Gateway>, <HTTP Port>, and <VNP Port> of the camera are displayed in the preset values.
- In the <Address> pane, provide the necessary information.
 - MAC (Ethernet) Address : The MAC address imprinted on the camera label is automatically displayed and requires no user setting.



- IP related parameters can be set only when DHCP is not checked.



If not using a Broadband Router

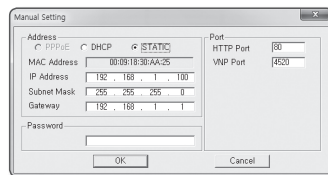
For setting <IP Address>, <Subnet Mask>, and <Gateway>, contact your network administrator.

4. In the <Port> pane, provide necessary information.

- HTTP Port : Used to access the camera using the Internet browser, defaulted to 80.
- VNP Port : Used to control the video signal transfer, defaulted to 4520.

5. Enter the password.

Enter the password of "admin" account, which was used to access the camera.



- For the security purposes, you are recommended to use a combination of numbers, alphabets uppercase and lowercase and special characters for your password.
- For information on how to change the password, refer to the online help of Web Viewer.

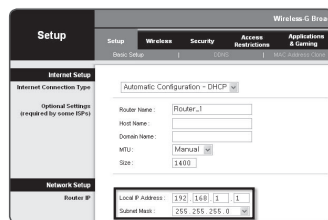
6. Click [OK].

Manual network setup will be completed.

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 22)



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)

	Category	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
	VNP Port	4520	4521

- 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

Auto Network Setup

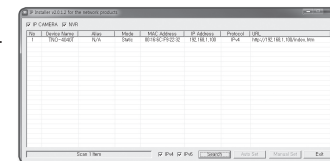
Run <IP Installer_v2.XX.exe> to display the camera search list.

At the initial startup, both [Auto Set] and [Manual Set] will be grayed out.

- For cameras found with the IPv6 setting, these buttons will be grayed out as the cameras do not support this function.

1. Select a camera in the search list.

Check the MAC address of the camera on the camera's label. Both the [Auto Set] and [Manual Set] buttons will be activated.



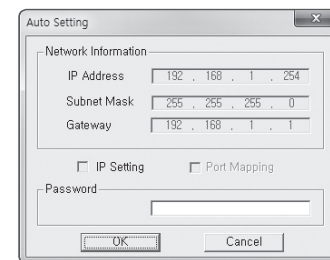
2. Click [Auto Set].

The Auto Setting dialog appears. The <IP Address>, <Subnet Mask>, and <Gateway> will be set automatically.

3. Enter the password.

Enter the password of "admin" account, which was used to access the camera.

- For the security purposes, you are recommended to use a combination of numbers, alphabets uppercase and lowercase and special characters for your password.
- For information on how to change the password, refer to the online help of Web Viewer.



4. Click [OK].

Auto network setup will be completed.

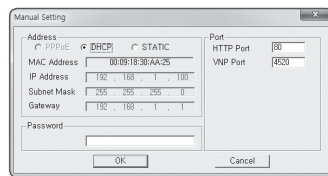
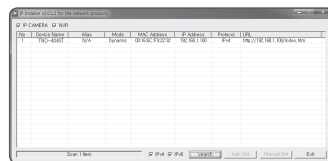
DYNAMIC IP SETUP

Dynamic IP Environment Setup

- 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

Checking the Dynamic IP

1. Run the IP Installer on the user's local computer.
Cameras allocated with **<Dynamic IP>** address are shown in the list.
2. Select a camera from the search result.
3. Click the **[Manual Set]** button and check the camera's **<Dynamic IP>** address.
If you uncheck **<DHCP>**, you can change IP to **<Static>**.

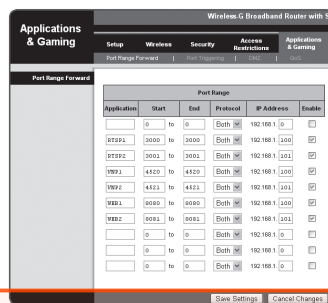


PORT RANGE FORWARD (PORT MAPPING) SETUP

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

1. 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.
2. 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.



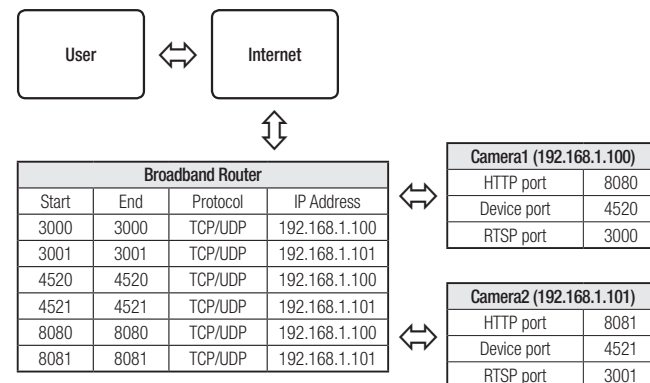
3. When done, click **[Save Settings]**.
Your settings will be saved.

- Above sample instructions are based on the CISCO's Broadband Router.
- The settings may differ depending on the connected Broadband Router model.
For more information, refer to the user manual of the applicable router.

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 :

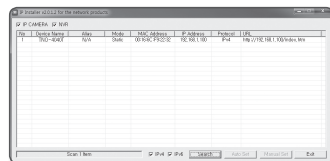


- Port forwarding can be done without additional router setup if the router supports the UPnP (Universal Plug and Play) function.
After connecting the network camera, select the checkbox from the menu **<Quick connect>** in **<Wisenet DDNS>** in **"Settings -> Network -> DDNS"**.

CONNECTING TO THE CAMERA FROM A SHARED LOCAL PC

1. Run the IP Installer.
It will scan for connected cameras and display them as a list.
2. 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

Since using the IP Installer 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.

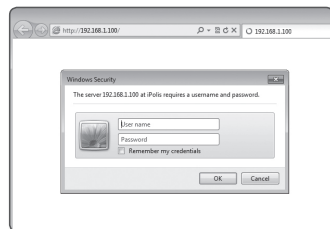
1. Before you can access a camera in the Broadband Router network, you should have set the port range forward for the Broadband Router.
2. From the remote PC, launch the Internet browser and type the DDNS URL address of the camera, or the IP address of the Broadband Router in the address bar.
ex) <http://ddns.hanwha-security.com/ID>

- For information on how to register DDNS, refer to the network setup guide.

CONNECTING TO THE CAMERA

Normally, you would

1. Launch the Internet browser.
2. 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.



If the HTTP port is other than 80

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)
→ http://192.168.1.100:8080 - the Login dialog should appear.

Using URL

1. Launch the Internet browser.
2. 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.

To check the DDNS address

If the camera is connected directly to the DHCP cable modem, DSL modem, or PPPoE modem, 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.

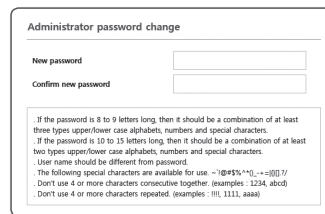
To register your device to the <DDNS> server, visit http://ddns.hanwha-security.com and register your device first, and then set the Web Viewer's <Network> - <DDNS> to <Wisenet DDNS>, as well as providing <Product ID> that had been used for DDNS registration.

PASSWORD SETTING

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

When the "Password change" window appears, enter the new 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.
- Special characters that are allowed: ~!@#%&^*()_+={}|[]?/
- 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.

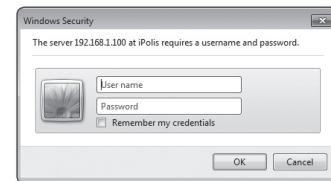


LOGIN

Whenever you access the camera, the login window appears.

Enter the User ID and password to access the camera.

1. 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.

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.

SPECIFICATION

Items		Description				
		TNO-4030T	TNO-4040T	TNO-4050T	TNO-4041T	TNO-4051T
Video	Imaging Device	Uncooled Micro bolometer				
	Pixel size	17µm				
	Effective Pixels	640x480				
	NETD	<50mK				
	Video Out	CVBS : 1.0 Vp-p / 75Ω composite, 720x480(N), 720x576(P), for installation USB : Micro USB type B, 1280x720, for installation		CVBS : 1.0 Vp-p / 75Ω composite, 720x480(N), 720x576(P), for installation		
Lens	Focal Length (Zoom Ratio)	13mm fixed	19mm fixed	35mm fixed	19mm fixed	35mm fixed
	Max. Aperture Ratio	F1.0				
	Angular Field of View	H:48.6°/V:36.4°/D:61.6°	H:32°/V:24.3°/D:39.2°	H:17.2°/V:13°/D:22°	H:32°/V:24.3°/D:39.2°	H:17.2°/V:13°/D:22°
	Focus control	Fixed				
	Min. Object Distance	5m	11m	36m	11m	36m
	Mount Type	Board-in type				
Operational	Camera Title	Off / On - W/W : English/Numeric/Special Characters - Common : Multi-line (Max 5), Color (Grey/Green/Red/Blue/Black/White), Transparency, Auto Scale by Resolution				
	Digital Image Stabilization	Off / On(with Gyro)				
	Motion Detection	Off/ On(8ea, 8point Polygonal zones), Handover				
	Privacy Masking	Off / On (32ea, polygonal zones) - Color : Grey/Green/Red/Blue/Black/White - Mosaic				
	Flip / Mirror	Flip : On/Off Mirror : On/Off Hallway view : 90°/270°				

Items		Description				
		TNO-4030T	TNO-4040T	TNO-4050T	TNO-4041T	TNO-4051T
Operational	Video & Audio Analytics	Tampering, Loitering, Directional Detection, Virtual Line, Enter/Exit, Appear / Disappear, Audio Detection, Motion Detection, Sound Classification, Shock detection, Temperature change detection				
	Alarm I/O	Input 1ea / Output 2ea				
	Remote control	-			RS485	
	RS-485 Protocol	-			Pelco D/P, Samsung T, Honeywell, Bosch, Panasonic, Sungin, AD, Vicon, GE	
	Alarm Triggers	Alarm Input, Motion Detection, Video & Audio Analytics, Network Disconnect				
	Alarm Events	• File upload via FTP, E-Mail • Notification via E-Mail • local storage(SD/SDHC/SDXC) or NAS recording at Event Triggers • External output				
	Audio In	Selectable (Mic IN/Line IN), Supply voltage: 2.5VDC(4mA), Input impedance: approx. 2K Ohm				
	Audio out	Line out, Max output level: 1 Vrms				
	Pixel count	support				
	Network	Ethernet	RJ-45 (10/100BASE-T)			
Video Compression		H.265/H.264 (MPEG-4 Part 10/AVC) : Main/Baseline/High, Motion JPEG				
Resolution		640x480, 640x360, 320x240				
Max. Framerate		H.265/H.264 : Max. 30fps at all resolutions Motion JPEG : Max. 30fps				
WiseStream II		Support				
Video Quality Adjustment		H.264/H.265 : Target Bitrate Level Control MJPEG : Target Bitrate Level Control				

Items	Description				
	TNO-4030T	TNO-4040T	TNO-4050T	TNO-4041T	TNO-4051T
Network	Bitrate Control Method	H.264/H.265 : CBR or VBR MJPEG : VBR			
	Streaming Capability	Multiple Streaming (Up to 10 Profiles)			
	Audio Compression Format	G.711 u-law /G.726 Selectable G.726 (ADPCM) 8KHz, G.711 8KHz G.726 : 16Kbps, 24Kbps, 32Kbps, 40Kbps AAC-LC : 48Kbps at 8/16/32/48KHz			
	Audio Communication	Bi-directional (2-Way)			
	IP	IPv4, IPv6			
	Protocol	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour, LLDP			
	Security	HTTPS(SSL) Login Authentication Digest Login Authentication IP Address Filtering User access Log 802.1X Authentication (EAP-TLS, EAP-LEAP)			
	Streaming Method	Unicast / Multicast			
	Max. User Access	20 users at Unicast Mode			
	Edge Storage	SD/SDHC/SDXC (up to 256 GB) - Motion Images recorded in the SD/SDHC/SDXC memory card can be downloaded. NAS(Network Attached Storage) Local PC for Instant Recording			
	Application Programming Interface	ONVIF Profile S/G SUNAPI(HTTP API) Open Platform			
	Webpage Multi Langu	English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Swedish, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek			

Items	Description				
	TNO-4030T	TNO-4040T	TNO-4050T	TNO-4041T	TNO-4051T
Network	Web Viewer	Supported OS : Windows 7 / 8.1 / 10, MAC OS X 10.10, 10.11, 10.12 Recommended browser: Google Chrome Supported Browser : MS Explorer 11, MS Edge, Mozilla Firefox (Window 64bit only), Apple Safari (Mac OS X only)			
	Central Management Software	SmartViewer, SSM			
Environmental	Operating Temperature / Humidity	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 90% RH			
	Storage Temperature / Humidity	-50°C ~ +60°C (-58°F ~ +140°F) / Less than 90% RH			
	Ingress protect	IP66, NEMA 4X			
	Vandal Resistance	IK10	-	IK10	-
Electrical	Input Voltage	24VAC, 12VDC, PoE(IEEE802.3af)			
	Power Consumption	Max.10.5W(AC24V), Max.9W(DC12V), Max.10W(PoE) Typical 8.9W(AC24V), Typical 7.5W(DC12V), Typical 8.6W(PoE)			
Mechanical	Color / Material	White(RAL-9003) / Aluminum			
	Dimension (Ø x H)	Ø101.97 x H401.8mm		Ø101.97 x H309mm	
	Weight	3,124g	3,126g	2,452g	

Items	Description		
	TNO-4030TR	TNO-4040TR	TNO-4041TR
Video	Imaging Device	Uncooled Micro bolometer	
	Pixel size	17µm	
	Effective Pixels	640x480	
	NETD	<50mK	
	Video Out	CVBS : 1.0 Vp-p / 75Ω composite, 720x480(N), 720x576(P), for installation USB : Micro USB type B, 1280x720, for installation	CVBS : 1.0 Vp-p / 75Ω composite, 720x480(N), 720x576(P), for installation
Lens	Focal Length (Zoom Ratio)	13mm fixed	19mm fixed
	Max. Aperture Ratio	F1.0	
	Angular Field of View	H:48.6°/V:36.4°/D:61.6°	H:32°/V:24.3°/D:39.2°
	Focus control	Fixed	
	Min. Object Distance	5m	11m
	Mount Type	Board-in type	
Radiometry	Temperature detect range	-20°C ~ 130°C (-4°F~266°F)	
	Temperature accuracy	±5°C (≤100°C), ±20% (>100°C)	
	Temperature detection	Off / On(3ea rectecgle)	
	Additional	Hybrid palettes, Spot temperature reading	
Operational	Camera Title	Off / On - W/W : English/Numeric/Special Characters - Common : Multi-line (Max 5), Color (Grey/Green/Red/Blue/Black/White), Transparency, Auto Scale by Resolution	
	Digital Image Stabilization	Off / On(with Gyro)	
	Motion Detection	Off/ On(3ea, 8point Polygonal zones), Handover	
	Privacy Masking	Off / On (32ea, polygonal zones) - Color : Grey/Green/Red/Blue/Black/White - Mosaic	
	Flip / Mirror	Flip : On/Off Mirror : On/Off Hallway view : 90°/270°	Flip : On/Off Mirror : On/Off

Items	Description		
	TNO-4030TR	TNO-4040TR	TNO-4041TR
Operational	Video & Audio Analytics	Tampering, Loitering, Directional Detection, Virtual Line, Enter/Exit, Appear / Disappear, Audio Detection, Motion Detection, Sound Classification, Shock detection, Temperature detection	
	Alarm I/O	Input 1 ea / Output 2ea	
	Remote control	-	RS485
	RS-485 Protocol	-	Pelco D/P, Samsung T, Honeywell, Bosch, Panasonic, Sungin, AD, Vicon, GE
	Alarm Triggers	Alarm Input, Motion Detection, Video & Audio Analytics, Network Disconnect	
Operational	Alarm Events	• File upload via FTP, E-Mail • Notification via E-Mail • local storage(SD/SDHC/SDXC) or NAS recording at Event Triggers • External output	
	Audio In	Selectable (Mic IN/Line IN), Supply voltage: 2.5VDC(4mA), Input impedance: approx. 2K Ohm	
	Audio out	Line out, Max output level: 1 Vrms	
	Pixel count	support	
	Ethernet	RJ-45 (10/100BASE-T)	
Network	Video Compression	H.265/H.264 (MPEG-4 Part 10/AVC) : Main/Baseline/High, Motion JPEG	
	Resolution	640x480, 640x360, 320x240	
	Max. Framerate	H.265/H.264 : Max. 30fps at all resolutions Motion JPEG : Max. 30fps	
	WiseStream II	Support	
	Video Quality Adjustment	H.264/H.265 : Target Bitrate Level Control MJPEG : Target Bitrate Level Control	

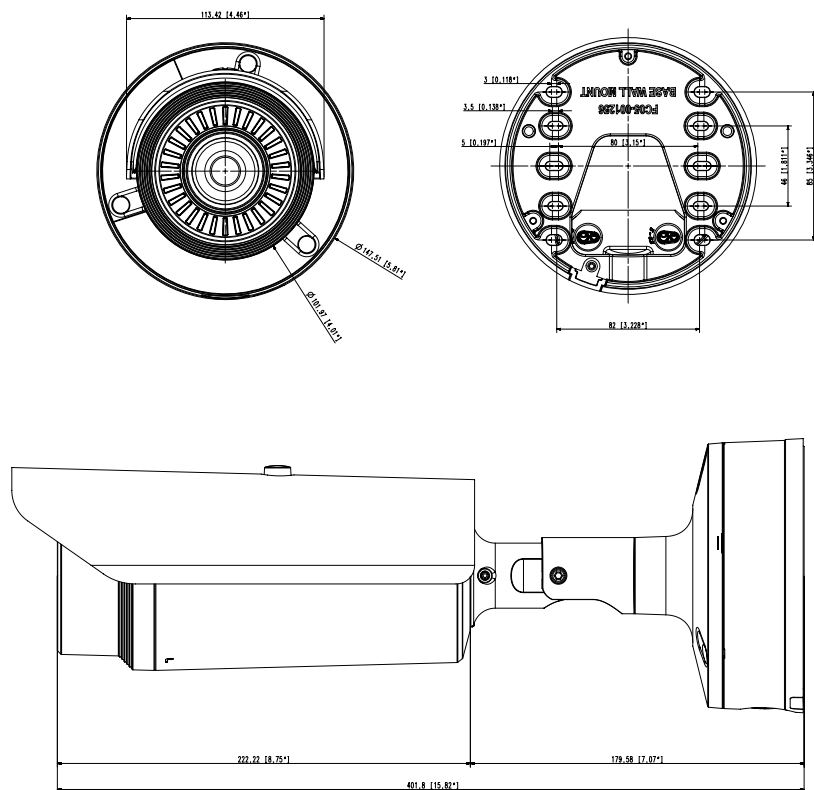
Items	Description		
	TNO-4030TR	TNO-4040TR	TNO-4041TR
Network	Bitrate Control Method	H.264/H.265 : CBR or VBR MJPEG : VBR	
	Streaming Capability	Multiple Streaming (Up to 10 Profiles)	
	Audio Compression Format	G.711 u-law /G.726 Selectable G.726 (ADPCM) 8KHz, G.711 8KHz G.726 : 16Kbps, 24Kbps, 32Kbps, 40Kbps AAC-LC : 48Kbps at 8/16/32/48KHz	
	Audio Communication	Bi-directional (2-Way)	
	IP	IPv4, IPv6	
	Protocol	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour, LLDP	
	Security	HTTPS(SSL) Login Authentication Digest Login Authentication IP Address Filtering User access Log 802.1X Authentication (EAP-TLS, EAP-LEAP)	
	Streaming Method	Unicast / Multicast	
	Max. User Access	20 users at Unicast Mode	
	Edge Storage	SD/SDHC/SDXC (up to 256 GB) - Motion Images recorded in the SD/SDHC/SDXC memory card can be downloaded. NAS(Network Attached Storage) Local PC for Instant Recording	
	Application Programming Interface	ONVIF Profile S/G SUNAPI(HTTP API) Open Platform	
	Webpage Multi Langu	English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Swedish, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek	

Items	Description		
	TNO-4030TR	TNO-4040TR	TNO-4041TR
Network	Web Viewer	Supported OS : Windows 7 / 8.1 / 10, MAC OS X 10.10, 10.11, 10.12 Recommended browser: Google Chrome Supported Browser : MS Explorer 11, MS Edge, Mozilla Firefox (Window 64bit only), Apple Safari (Mac OS X only)	
	Central Management Software	SmartViewer, SSM	
Environmental	Operating Temperature / Humidity	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 90% RH	
	Storage Temperature / Humidity	-50°C ~ +60°C (-58°F ~ +140°F) / Less than 90% RH	
	Ingress protect	IP66, NEMA 4X	
	Vandal Resistance	IK10	
Electrical	Input Voltage	24VAC, 12VDC, PoE(IEEE802.3af)	
	Power Consumption	Max.10.5W(AC24V), Max.9W(DC12V), Max.10W(PoE) Typical 8.9W(AC24V), Typical 7.5W(DC12V), Typical 8.6W(PoE)	
Mechanical	Color / Material	White(RAL-9003) / Aluminum	
	Dimension (Ø x H)	Ø101.97 x H401.8mm	Ø101.97 x H309mm
	Weight	3,124g	3,126g
			2,452g

PRODUCT OVERVIEW

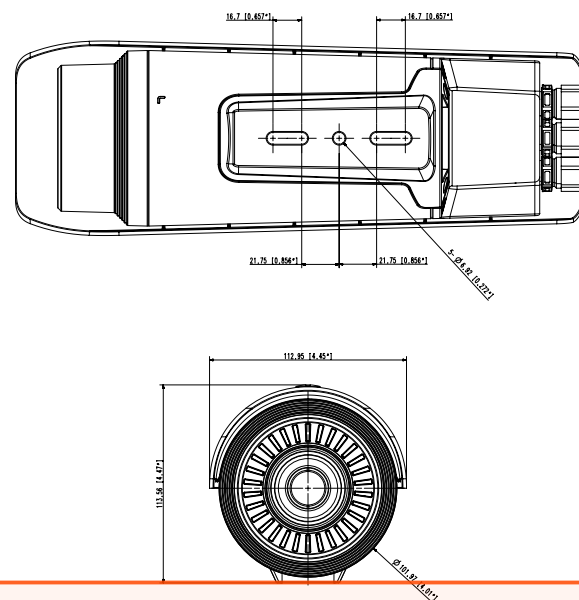
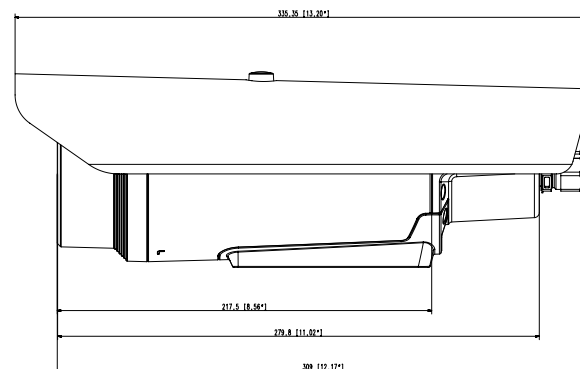
TNO-4030T/4040T/4050T/4030TR/4040TR

Unit : mm (inch)



TNO-4041T/4051T/4041TR

Unit : mm (inch)



● APPENDIX

TROUBLESHOOTING

PROBLEM	SOLUTION
When an Windows 10 user accesses the web viewer through Chrome or Firefox, the sound volume of microphone changes periodically.	This is what happens when microphone driver has been set to Realtek driver. Install the High Definition Audio device (Windows Default Driver) or the third party driver as the microphone driver.
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.
I can't access the camera from a web browser.	- Check to make sure that the camera's Network settings are appropriate. - Check to make sure that all network cables have been connected properly. - 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. - If the camera is connected over an PPPoE network, it's possible for Viewer to disconnect under poor network conditions.
The camera connected to the network is not detected in the IP installer 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
Voice is not recorded even though audio input settings are configured.	You must enable the <Audio In> check box in <Basic> - <Video Profile>.
<Motion detection> of <Analytics> is set to <Enable>, but no notification e-mail reaches me even when an analysis event had occurred.	- Verify the settings in the following sequence: - Check <Data & Time> settings. - The <Motion detection> should be set to <Enable>. - Check if the <E-mail> option of <Event setup> menu is checked to use.
No signal is found at the Alarm Output port even when an intelligent video analysis event is generated.	Check alarm output port settings.
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.
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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GPL SW

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	
mttd-1.5.2	GPL 2.0	ftp://ftp.infradead.org/pub/mttd-utils
mi-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	
zerocoinf	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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Version 2, June 1991

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- Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.) The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the program.

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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

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