HD IR Vari-focal Dome Network Camera

Quick Start Guide

Welcome

Thank you for purchasing our Network camera!

This user's manual is designed to be a reference tool for your system.

Please read the following safeguard and warnings carefully before you use this series product! Please keep this user's manual well for future reference!

Important Safeguards and Warnings

1. Electrical safety

- All installation and operation here should conform to your local electrical safety codes.
- Please check if the power supply is correct before operating the device.
- The power shall conform to the requirement in the SELV (Safety Extra Low Voltage) and the Limited power source is rated DC 12V or AC 24V in the IEC60950-1. (Power supply requirement is subject to the device label).
- Please install easy-to-use device for power off before installing wiring, which is for emergent power off when necessary.
- Please prevent the line cord from being trampled or pressed, especially the plug, power socket and the junction from the device.
- Note: Do not connect these two power supplying sources to the device at the same time; it may result in device damage!
- We assume no liability or responsibility for all the fires or electrical shock caused by improper handling or installation.
- We are not liable for any problems caused by unauthorized modification or attempted repair.

2 . Environment

- Please don't aim the device at strong light (such as lighting, sunlight and so on) to focus; otherwise
 it may cause overexposure (It is not the device malfunction), which will affect the longevity of CCD
 or CMOS.
- Please transport, use and store the device within the range of allowed humidity and temperature.
- Please don't keep the device in a place which is wet, dusty, extremely hot, and extremely cold and with strong electromagnetic radiation or unstable lighting.
- Please do not allow water and other liquid falling into the camera in case that the internal components are damaged.
- Please do not allow rain or damp to the indoor device in case fire or lightning may occur.
- Please keep the sound ventilation in case of heat accumulation.
- Please pack the device with standard factory packaging or material with same quality when transporting the device.
- Heavy stress, violent vibration or water splash are not allowed during transportation, storage and installation.

3. Operation and Daily Maintenance

Please do not touch the heat dissipation component of the device directly in order to avoid scald.

- Please do not dismantle the device; there is no component which can be fixed by users themselves in the machine. It may cause water leakage or bad image for the device due to unprofessional dismantling. Please contact after-sale service to replace desiccant if it becomes green.
- It is recommended to use the device with thunder proof device in order to improve thunder proof effect.
- The grounding holes of the product are recommended to be grounded to further enhance the reliability of the camera.
- Do not touch the CCD (CMOS) optic component directly. You can use the blower to clean the dust or dirt on the lens surface. Please use a dry cloth wetted by alcohol to wipe away the dust gently if it is necessary to clean.
- Always use the dry soft cloth to clean the device. If there is too much dust, please use the water to
 dilute the mild detergent first and then use it to clean the device. Finally use the dry cloth to clean
 the device. Don't use volatile solvent like alcohol, benzene, thinner and etc or strong detergent with
 abrasiveness, otherwise it will damage the surface coating or reduce the working performance of
 the device.
- Dome cover is an optical device, please don't touch or wipe cover surface directly during installation and use, please refer to the following methods to deal with once dirt is found:
- Stained with dirt
- Use oil-free soft brush or hair dries to remove it gently.
- Stained with grease or fingerprint
- Use soft cloth to wipe the water drop or oil gently to make it dry, then use oil-free cotton cloth or paper soaked with alcohol or detergent to wipe from the lens center to outward. It is ok to change the cloth and wipe several times if it is not clean enough.

Warning

- Please modify the default password after login in order to avoid being stolen.
- Please use the standard accessories provided by manufacturer and make sure the device is installed and fixed by professional engineers.
- Please prevent the device surface from the radiation of laser beam when using laser beam device.
- Please do not provide two or more power supply modes for the device, otherwise it may cause damage to the device.

Statement

- Please refer to the actual product for more details; the manual is just for reference.
- The manual will be regularly upgraded according to the product update; the upgraded content will be added in the manual without prior announcement.
- Please contact the supplier or customer service if there is any problem occurred when using the device
- Please contact the customer service for the latest procedure and supplementary documentation.

- There may be deviation between the actual value of some data and the value provided in the manual due to the reasons such as the real environment is not stable and so on. Please refer to the company's final explanation if there is any doubt or dispute.
- The company is not liable for any loss caused by the operation which is not followed by the manual.

FCC Information

1. FCC conditions:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference;
- This device must accept any interference received, including interference that may cause undesired operation.

2. FCC compliance:

This equipment has been tested and found to comply with the limits for a digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Note:

Please refer to the disk for more details, check and download corresponding user's manual and tool. Before installation, please open the package and check all the components are included. Contact your local retailer ASAP if something is broken in your package.

Accessory Name	Amount
Network Camera Unit	1
Quick Start Guide	1
Installation Accessories Bag	1

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1 Structure

Note:

- The following figures are for reference only, which are used to know each structure component and cable port functions.
- There are differences about wire structure for some product models, please refer to the actual object for more details.

1.1 Components

You can refer to the following figure for component structure. See Figure 1-1.

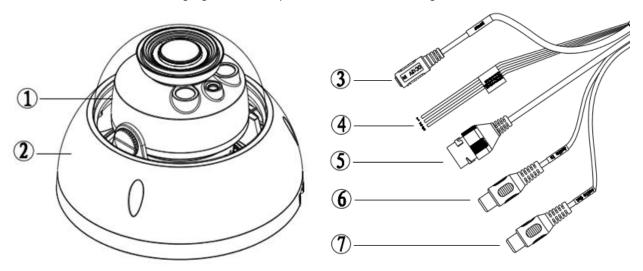


Figure 1-1 Component structure

Please refer to the following sheet for detailed information.

Component	Component Name
Component 1	Dome camera module
Component 2	Dome enclosure

Port	Port Name	Note
Port 3	Power input port	Connect to DC 12V power, input power.
Port 4	I/O port	Alarm signal input/output (optional, supported by some product models)
Port 5	Internet access port	Network data in/out and PoE. Note: Some devices do not support PoE.
Port 6	Audio input port	Input audio signal, receive analog audio signal from sound pick-up.etc(optional, supported by some product models)
Port 7	Audio output port	Output audio signal to speakers.etc (optional, supported by some product models.)

Please refer to the following sheet for detailed information about I/O port.

Port Name	Port Sequence	Port name	Function Description
	1	ALARM_IN1	Alarm input port, receive on-off signal of external alarm source.
I/O Port	2	ALARM_OUT1	Alarm output port, output alarm signal to alarm device.
	3	ALARM_GND	Connect ground

1.2 Framework and Dimension

Please refer to the following two figures for dimension information. The unit is mm. See Figure 1-2

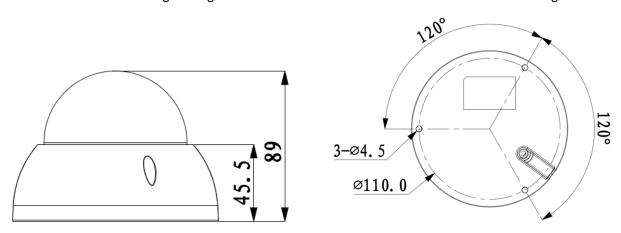


Figure 1-2 Dimension illustration

1.3 Alarm Setup

Note:

It is only supported by some series products.



Figure 1-3

Alarm input, output description:

- Step 1 Connect alarm input device to the alarm input of I/O cable.
- Step 2 Connect alarm output device to the alarm output of I/O cable, alarm output is collector open circuit output which connects 10K resistor to 3.3V externally.
- Step 3 Open the Web, set alarm input and output correspondingly. Alarm input on WEB corresponds to I/O cable on device. When there is alarm, alarm input device will generate signal of high and low level. Set corresponding NO and NC inputs.
- Step 4 Set the WEB alarm output. The alarm output is for the alarm output port of the device. It is the alarm output port of the I/O cable.

Please refer to the following figure for alarm input information. See Figure 1-4.

Alarm input: When the input signal is idle or grounded, the device can collect the different statuses of the alarm input port. When the input signal is connected to 3.3V or it is idle, the device collects the logic "1". When the input signal is grounded, the device collects the logic "0".

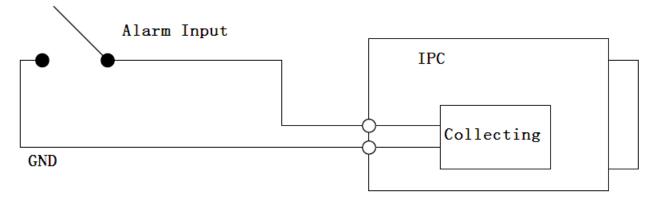


Figure 1-4

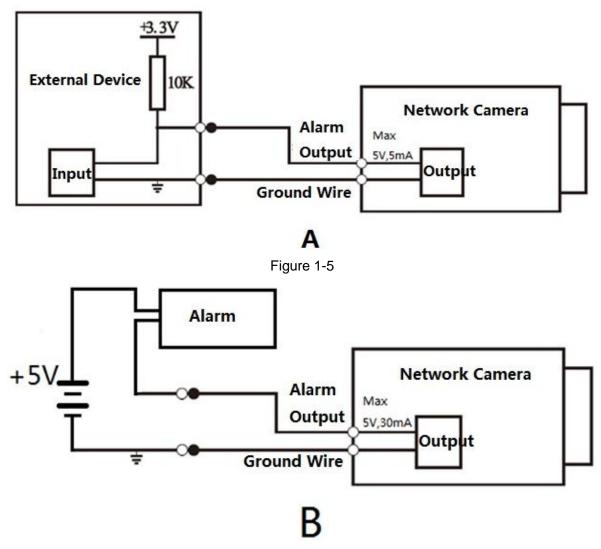


Figure 1-6

Mode A: Level application. Alarm output high and low level, alarm output is OC; it needs to increase pull-up resistance externally to work normally. Max external pull-up level is 5V, max port current is 5mA. After external pull-up resistance is increased, the default of output signal is high level (external pull-up voltage), and it switches to low level when there is alarm output (when the working current is 5mA, output voltage is less than 0.8V).

Mode B: Switch application. Alarm output is used to drive external circuit, max current is 30mA, max voltage is 5V, it is advised to add a relay if it is beyond the value.

2 Device Installation

Note:

- The following installation figures are for reference only; please refer to the figure according to the actual product.
- Before the installation, please make sure the installation surface can at least support 3x weight of the camera and the bracket.
- Please cut off the device power and turn off the device before installing Micro SD card.

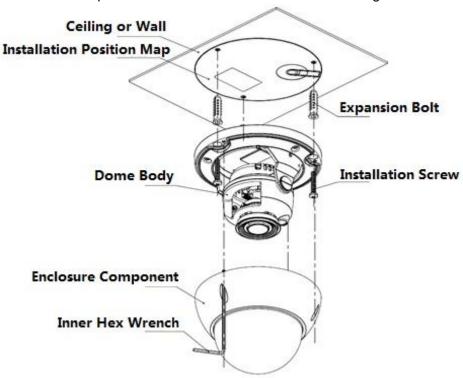


Figure 2-1 Manual Vari-focal Camera

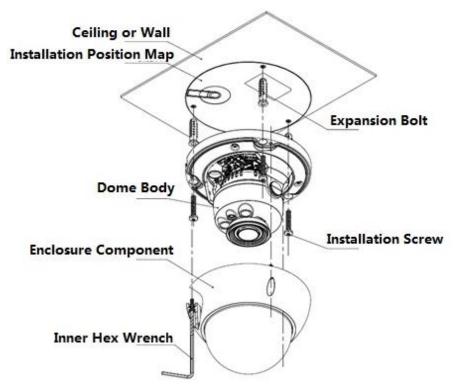


Figure 2-2 Motorized Vari-focal Camera

Step 1

Use inner hex wrench in the accessories bag to open dome enclosure by unfastening three inner hex screws on the enclosure.

Step 2

Install SD card, which is shown in Figure 2-3.

Note:

It needs to implement the step when the device is equipped with Micro SD card slot and it needs to use Micro SD card.

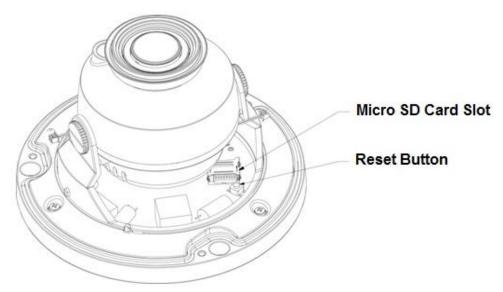


Figure 2-3

Note:

 Long press the "Reset" button shown in Figure 2-2 for 10 seconds when the device is power on if the device needs to be restored to factory default setting.

- If the device needs to use WPS function, short press "Reset" button for 1~2 seconds when the device is power on, press the WPS button of the router, generally the device can be connected to the corresponding router within 1 minute (only supported by some models).
- 1. Find the Micro SD card slot and open the Micro SD card slot according to the direction shown in Figure 2-4.

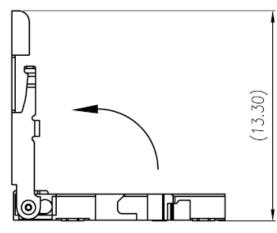


Figure 2-4

- 2. Adjust the direction of Micro SD card and install it into the installation slot.
- 3. Close the Micro SD card slot and lock the slot firmly.

Step 3

Fix the device on the installation surface

- 1. Take out the installation position map from the accessories bag and paste it on the installation surface (ceiling or wall), dig three bottom holes for plastic expansion bolt according to the three holes sites with cross sign on the installation position map, then insert three expansion bolts into the installation holes and lock them firmly.
- 2. Adjust the device installation pedestal to the proper position and then pull cable through the exit hole on Installation surface. Make direction of TOP sign same as it on installation position map. Line up the three screw holes in the device pedestal to the three plastic expansion bolt holes in the installation position, and then insert three self-tapping screws into the three plastic expansion bolts and lock them firmly. Finally fix the dome body on installation surface.

Note:

- If users adopt top outlet mode from installation surface when installing cable, you must dig an exit hole on installation surface according to the installation position map.
- If users adopt side cable outlet when installing cable, it must go through the U-shape channel on dome pedestal, and take out cable from the side exit hole on pedestal.

Step 4

Adjust device monitoring direction, which is shown in Figure 2-5.

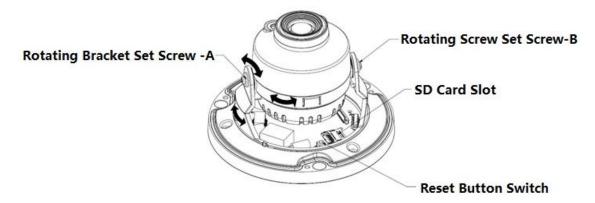


Figure 2-5

Hold the rotation bracket on both sides, turn the rotation bracket horizontally, adjust the lens direction horizontally to the targeted position; loosen the two hand screws on the both sides of the rotation bracket (do not remove them completely, just make them loose), hold the camera module to make the lens rotate vertically, adjust the vertical direction of lens monitoring image to a proper monitoring angle, then tighten the fixed screws on the decoration cover.

Note:

Range of adjusting lens angle: vertical (0 $^{\circ}$ \sim +75 $^{\circ}$), horizontal (0 $^{\circ}$ \sim +355 $^{\circ}$).

Step 5

Adjust manual vari-focal lens (optional), which is shown in Figure 2-6.

Note:

The motorized vari-focal series are equipped with motorized vari-focal lens by default, which needs no manual adjustment.

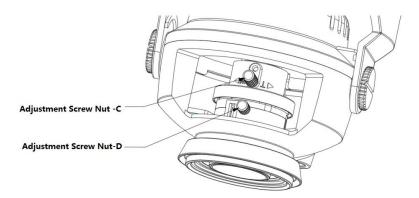


Figure 2-6

- Loosen the adjustment screw C slightly, and then move the threaded rod of adjustment screw C slightly to make it swing, adjust the lens focal length to the needed position according to the image display.
- Loosen the adjustment screw D slightly, and then move the threaded rod of adjustment screw D slightly to make it swing, make the lens focus clear according to the image display, then tighten the adjusting screw D.
- 3. The image may become blurry during the process of tightening adjusting screw D, adjust the image slightly via moving adjusting screw C, then adjust the image to become clear and finally tighten the screw C.

Step 6

Take up the dome enclosure, put it back on the camera properly regarding to screw and hole, and fasten the three inner hex screws with wrench. So far the installation is completed.

Note:

The dome enclosure is involved in device waterproof function; make sure it is firmly tightened after adjustment.

Step 7

Waterproof connector installation for network port; see Figure 2-7 for more details.

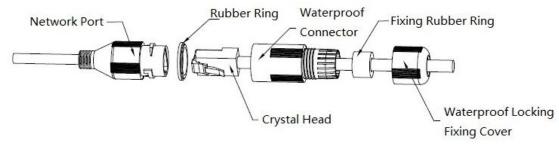


Figure 2-7

- 1. Keep the convex groove outward and install the rubber ring into the network port, keep the smaller hole of the rubber ring outward and install the fixing rubber ring into the main body of the waterproof connector.
- 2. Pull the network cable without crystal head through main body of waterproof connector, fixing rubber ring and waterproof locking cover, make the crystal head of network cable, and then insert it into the network cable.
- 3. Put the main body of waterproof connector on the network port and rotate it clockwise to lock the network port and waterproof connector firmly.
- 4. Put the waterproof locking cover on the main body of waterproof connector and rotate it clockwise to lock the waterproof connector and waterproof locking cover firmly.

3 Network Configuration

The IP address of all the cameras is the same when leaving factory (default IP192.168.1.108), in order to make the camera get access to the network smoothly, please plan the useable IP segment reasonably according to the actual network environment.

3.1 Modify IP Address

IP address can be acquired and modified through quick configuration tool for the cameras which are accessed via wired network, it needs to connect wired network to configure wireless parameters before using wireless network cameras. In this chapter, it will introduce the approach of modifying IP address via "Quick Configuration Tool"; also you can modify the IP address in the network parameters of the WEB interface, please refer to the document in the disk << WEB Operation Manual>> for more details.

Note:

Currently the quick configuration tool only supports the cameras which apply to the same network segment with computer IP address.

Step 1 Double click the "ConfigTools.exe" and open the quick configuration tool.

Step 2 Double click the device to be configured, the system will pop out the "Login" dialog box. Enter the IP address, user name, password and port number of the camera, and click "Confirm".

Note:

The default user name and password are admin and admin respectively, the default of port is 37777. See Figure 3-1 for more details.

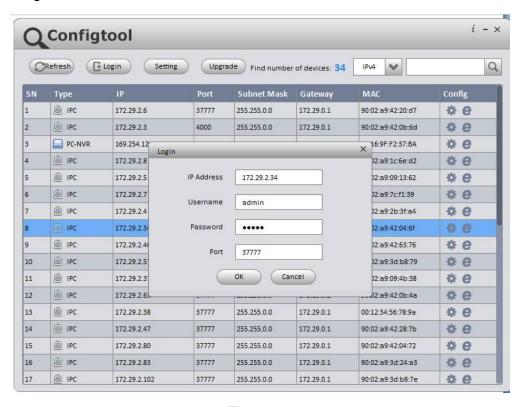


Figure 3-1

Step 3 Modify the camera IP address on the "Net" interface, click "Save" to finish modification. See Figure 3-2 for more details.

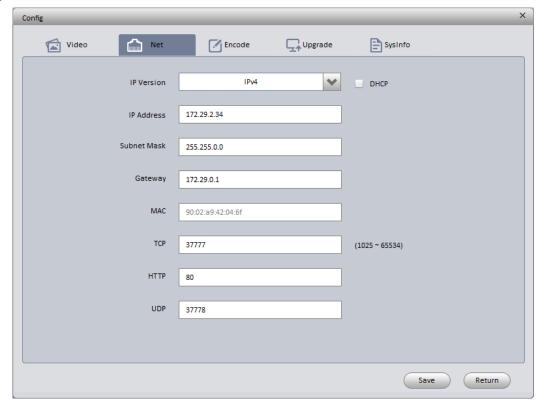


Figure 3-2

3.2 Login WEB Interface

Note:

Different devices may have different WEB interfaces, the figures below are just for reference, please refer to the document <<WEB Operation Manual>> in the disk and the actual interface for more details Step 1 Open IE and input the modified camera IP address in the address bar.

Step 2 The login interface is shown below, please input your user name and password (Default user name is admin and password is admin respectively), click "login".

See Figure 3-3 for more details.



Figure 3-3

Step 3 Install controls according to the system prompt; see Figure 3-4 for the WEB main interface. Please modify the administrator password as soon as possible after you successfully logged in.

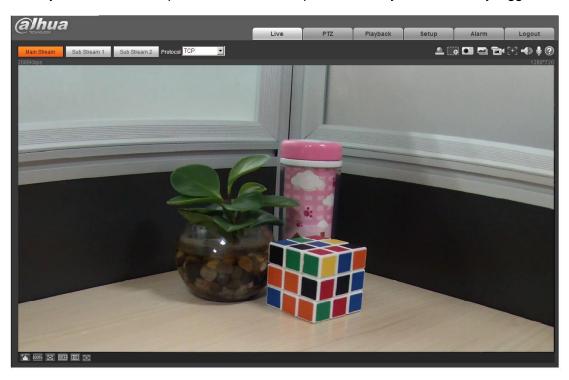


Figure 3-4

Note

- This user's manual is for reference only. Slight difference may be found in user interface.
- All the designs and software here are subject to change without prior written notice.
- All trademarks and registered trademarks mentioned are the properties of their respective owners.
- If there is any uncertainty or controversy, please refer to the final explanation of us.
- Please visit our website for more information.