

## Panorama Fisheye Network Camera Quick Setup Guide

R2-12MPFISH

NO:101-100-0590-01  
Issue:1.4

### Precautions

Fully understand this document before using this device, and strictly observe rules in this document when using this device. If you install this device in public places, provide the tip "You have entered the area of electronic surveillance" in an eye-catching place. Failure to correctly use electrical products may cause fire and severe injuries.

	<b>WARNING</b> It alerts you to moderate dangers which, if not avoided, may cause minor or moderate injuries.
	<b>CAUTION</b> It alerts you to risks. Neglect of these risks may cause device damage, data loss, device performance deterioration, or unpredictable results.
	<b>NOTE</b> It provides additional information.

### WARNING

- Strictly observe installation requirements when installing the device. The manufacturer shall not be held responsible for device damage caused by users' non-conformance to these requirements.
- Strictly conform to local electrical safety standards and use power adapters that are marked with the LPS standard when installing and using this device. Otherwise, this device may be damaged.
- Use accessories delivered with this device. The voltage must meet input voltage requirements for this device.
- If this device is installed in places with unsteady voltage, ground this device to discharge high energy such as electrical surges in order to prevent the power supply from burning out.
- When this device is in use, ensure that no water or any liquid flows into the device. If water or liquid unexpectedly flows into the device, immediately power off the device and disconnect all cables (such as power cables and network cables) from this device.
- Do not focus strong light (such as lighted bulbs or sunlight) on

this device. Otherwise, the service life of the image sensor may be shortened.

- If this device is installed in places where thunder and lightning frequently occur, ground the device nearby to discharge high energy such as thunder strikes in order to prevent device damage.

### CAUTION

- Avoid heavy loads, intensive shakes, and soaking to prevent damages during transportation and storage. The warranty does not cover any device damage that is caused during secondary packaging and transportation after the original packaging is taken apart.
- Protect this device from fall-down and intensive strikes, keep the device away from magnetic field interference, and do not install the device in places with shaking surfaces or under shocks.
- Clean the device with a soft dry cloth. For stubborn dirt, dip the cloth into slight neutral cleanser, gently wipe the dirt with the cloth, and then dry the device.
- Do not jam the ventilation opening. Follow the installation instructions provided in this document when installing the device.
- Keep the device away from heat sources such as radiators, electric heaters, or other heat equipment.
- Keep the device away from moist, dusty, extremely hot or cold places, or places with strong electric radiation.
- If the device is installed outdoors, take insect- and moisture-proof measures to avoid circuit board corrosion that can affect monitoring.
- Remove the power plug if the device is idle for a long time.
- Before unpacking, check whether the fragile sticker is damaged. If the fragile sticker is damaged, contact customer services or sales personnel. The manufacturer shall not be held responsible for any artificial damage of the fragile sticker.
- Keep the device ventilation to avoid overheating.
- Do not install the device in extremely hot, cold, dusty, high salinity, high humidity, or corrosive environments; Forbid disassembling the device in these environments.
- If the equipment is disassembled for a long time, or the device is not installed properly after debugging, it will affect the sealing, cause the equipment to fog up and not work properly.

### Special Announcement

- All complete products sold by the manufacturer are delivered along with nameplates, quick setup guide and accessories after strict inspection. The manufacturer shall not be held responsible for counterfeit products.
- The manufacturer will update this manual according to product function enhancement or changes and regularly update the software and hardware described in this manual. Update information will be added to new versions of this manual without prior notice.
- This manual may contain misprints, technology information that is not accurate enough, or product function and operation description that is slightly inconsistent with the actual product, the final interpretation of company is as a standard.
- This manual is only for reference and does not ensure that the information is totally consistent with the actual product. For consistency, see the actual product.

### NOTE

For more information, please refer to website.

## 1 Packing List

Open the package, check the appearance of product for no obvious damage, and confirm whether the items are consistent with the list.

Table 1-1 Packing list

Component	Quantity	Remark
Panorama Fisheye Network Camera	1	
Quick Setup Guide	1	
Installation location sticker	1	
Flat-head screwdriver	1	
Plastic anchor $\phi 5.6 \times 29\text{mm}$	3	
Black stainless self-tapping screw KA4.0 $\times 30\text{mm}$	3	
Network access port protective cover	1	
Waterproof rubber seal	1	
Terminal block	2	

## 2 Device Structure

### 2.1 Device Ports

#### NOTE

Different devices may have different ports and multi-head cables; Please refer to the actual product.

Figure 2-1 Hardware ports

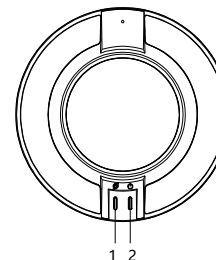


Table 2-1 Hardware ports description

ID	Port Name	Description
1	NIC indicator	When there is a network activity, the indicator flashes.
2	Power supply indicator	The indicator on when connect to the power supply.

Figure 2-2 Multi-head cable

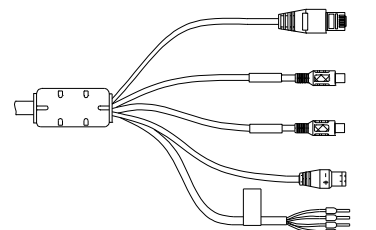


Table 2-2 Multi-head cable description

ID	Core	Description	Remark
1	Network access port	Connect to a standard Ethernet cable.	
2	Audio input port	Receive an analog audio signal from devices such as a sound pickup device.	Applied for camera with audio function
3	Audio output port	Connect to an external audio device such as a speaker.	
4	Power supply (DC 12V)	Connect to a 12V(-15%~+10%) direct current (DC) power supply.	
5	Gray core	Alarm output terminal A(normal open)	Applied for alarm function
	Purple core	Alarm output terminal B(normal open)	
	Yellow core	Alarm input positive terminal	
	Orange core	Alarm input ground terminal	

Figure 2-3 Multi-head cable 2

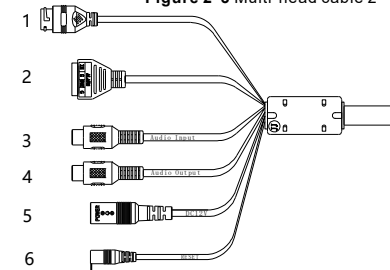


Table 2-2 Multi-head cable 2 description

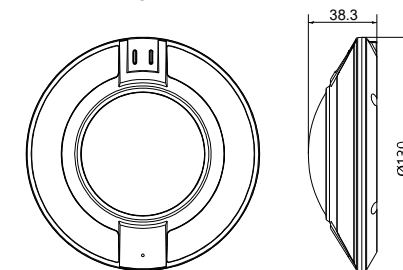
ID	Core	Description	Remark
1	Network interface	Connect to a standard Ethernet cable.	
2	IN	Alarm in	Applied for alarm function
	G	Alarm in com	
	OUT	Alarm out	
	G	Alarm out com	
3	Audio input port	Receive an analog audio signal from devices such as a sound pickup device.	Applied for camera with audio function
4	Audio output port	Connect to an external audio device such as a speaker.	
5	Power supply	Connect to a 12V(-15%~+10%) direct current (DC) power supply.	
6	Reset button	Long press for 5s to restore factory settings. Cover the button with the cap for waterproof, when it is idle.	

### 2.2 Camera Dimensions

#### NOTE

Different devices may have different dimensions; Please refer to the actual product.

Figure 2-3 Dimensions (Unit:mm)



## 3 Device Installation

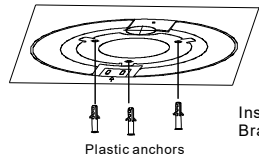
You can install the fisheye network camera in the ceiling and wall. This section describes how to install the camera in the ceiling.

### 3.1 Installation Steps

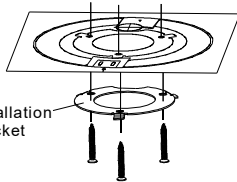
**Step 1** Stick the Installation location sticker on the Installation surface, drill four holes based on the marks on the sticker. Drive the plastic anchors into the holes, as shown in figure 3-1.

**Step 2** Take out the camera and remove the installation bracket, use screws with a length of 30mm to fix the installation bracket, as shown in figure 3-2.

**Figure 3-1** Fixing the bracket



**Figure 3-2** Removing the decoration

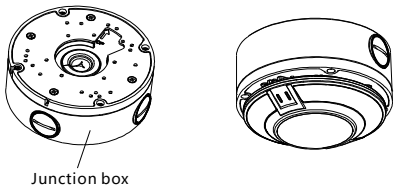


**Step 3** Connect the multi-connector cable.

#### NOTE

If you route cables from the top, drill a hole in the surface based on the location "B" on the location sticker. If you route cables from the side, please use the circular junction box, as shown in figure 3-3, drag the multi-head cable from the side of the junction box.

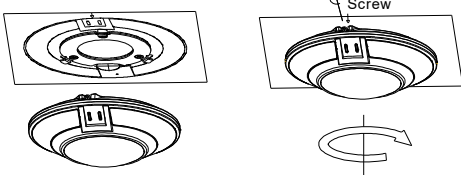
**Figure 3-3** Junction box



**Step 4** Aim the chassis gap of the camera at the buckles of the installation bracket based on the camera outline on the sticker, as shown in figure 3-4.

**Step 5** Push in and rotate the camera until it can't rotate, then fasten the screw at the side of the camera, as shown in figure 3-5.

**Figure 3-4** Installing camera **Figure 3-5** Fixing camera



**Step 6** Tear off the peripheral sticker of the camera.

## 4 Quick Configuration(e.g Edge)

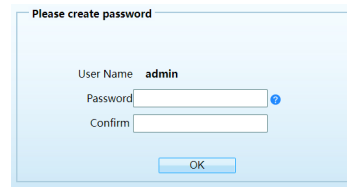
### 4.1 Login

Open the Internet Explorer, enter the IP address of IP camera (default value: DHCP on) in the address box, and press Enter. The activation page is displayed, as shown in figure 4-1.

#### NOTE

Create password when you log in camera for the first time to ensure system security

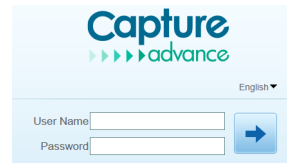
**Figure 4-1** Activation



- It is advised to restart the device three minutes later after modifying the password to ensure it was modified successfully
- You can change the system display language on the login page.

Click Login, the main page is displayed.

**Figure 4-2** Login



### 4.2 Modify IP address

Choose **Configuration > Device > Local Network**, the **Local Network** page is displayed.

Input the IP address in the IP Address box and click **Apply** as shown in figure 4-2.

After the IP address is set successfully, please use the new IP address to login the Web interface.

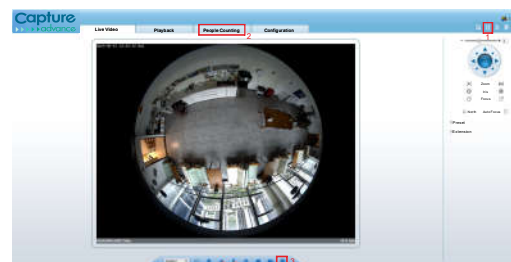
**Figure 4-2** Local Network



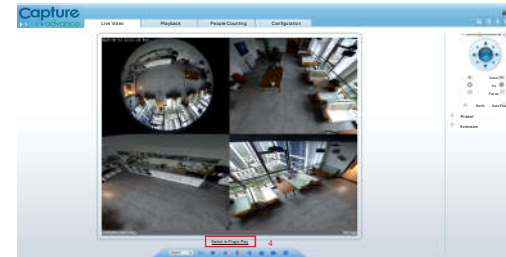
### 4.3 Browsing Video

For H.264 video, it can be played directly; If you want to play H.265 video, the **IPC local server** should be download in advanced. you can click icon to download, and install it following the steps, then you can play the H.265 video. Click "Switch to No plugin Play" to switch mode.

**Figure 4-3** Download IPC local server



**Figure 4-4** Switch to No plugin play



**1** Download IPC local server: Click the icon to download the software, and install it following the tips. Refresh the Web to play the live video by using plugin. You can view the H.265 type video.

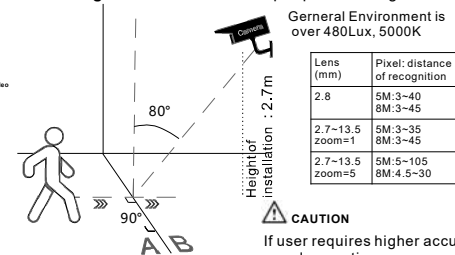
**2** People Counting: User can query the data of people counting, through year, month, day. The statistics can be downloaded. The data can be shown by line chart, histogram, list.

**3** AI Live video: Click the icon to view the snapshots of human face or license plate (click "Face" or "Plate" to switch). The bottom page will show the captured images of vehicle and human.

**4** Switch to No plugin play: Install the IPC local server, users can choose plugin or No plugin to play the live video.

\*PTZ interface is only for some models, not for all models. The above figures are only for example, please refer to actual product.

**Figure 4-5** Installation of people counting



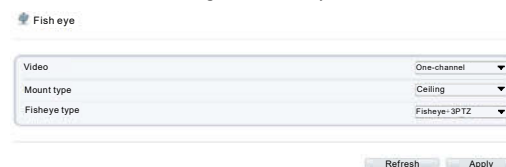
#### NOTE

For better capture performance, it is recommended to use 6mm focus length lens or above.

### 4.4 Fish eye configuration

Choose "**Configuration > Device > Fish eye**", the Fish eye configuration page is displayed, set the parameters for "Mount type" and "Fisheye type", as shown in figure 4-6.

**Figure 4-6** Fish eye



Three mount type are supported by the fisheye camera: Wall, Ceiling, Table.

Fisheye type includes:

- Fish eye: Original 360°, surround image;
- Double panorama: Double 180° panoramic image;
- 4PTZ: De-warping quad image.
- Single panorama: Single 180° panoramic image;
- Fisheye+3PTZ: 360° surround+3 De-warping images.

## 4.5 Intelligent Analysis

At "Configuration > Intelligent Analysis" interface, users can set the parameters of Intrusion, Single Line Crossing, Double Line Crossing, Multi-Loitering, Retrograde, People Counting, Smart Motion, Heat Map and Heat Map Export, as shown in figure 4-7.

**Figure 4-7** Intelligent Analysis



**Heat map** is a method of data analysis, statistics, and intuitive display, displaying customers' regions, targets, and geographical locations in a specially highlighted form.

After the camera enables the heat map, it will automatically detect and count the flow of personnel in the monitoring area, and identify the relative frequency of flow activities through different colors. In **no-plugin** mode, relevant heat map images can be displayed in the interface. Please switch to no-plugin mode to play in the real-time video interface.

#### Heat Map Settings:

At "Configuration > Intelligent Analysis > Heat map" interface, **Enable**: Click to enable the function. This function is disabled by default and needs to be manually enabled.

**Type**: Statistical type, Hour (there are 24 pieces of data per day) or Day (there is 1 piece of data per day); The original data will be cleared when the type is switched. Please operate with caution. Click "Apply" to save the settings.

**Type**: You can choose Data or Picture. Data is presented in numerical form to download; The picture is displayed in different areas with different colors on the downloaded picture.

**Statistics** type: Year/ Month/ Day/ Hour can be chosen.

**Time**: Select a retail time to search or download heat map data.

**Time Format**: Set the time format for downloading data, s/min/hour.

**Heat map bar**: Distinguish different degrees by different colors.

The maximum value is maximum data of single area in the heat map at the current set time.

After setting relevant parameters, you can click "Search" to view directly, or click "Download" to download the data in CVS format(the type is chosen Data) or picture format(the type is chosen Picture) to a local folder.

#### Heat Map Export:

At "Configuration > Intelligent Analysis > Heat Map Export" interface, set the chart type (Line chart or Histogram), time format (s, Min, or Hour), statistical type (Hour, Day, Month, Year), start time and end time (set detailed time according to the statistical method), "Search" or "Export" the relevant heat map statistic.