Precautions

- 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 fields, interferences, 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 device 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 fragment sticker is damaged, contact customer services or sales personnel. The manufacturer shall not be held responsible for any artificial damage of the fragile sticker.

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. Updated 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.
- Use accessories delivered with the device. The voltage must meet input voltage requirements for the device.
- If this device is installed in places with unpredictable 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. 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.

Open package Examination

Open the package, check the appearance of product for no obvious damage, and confirm the item list for table 1-1 is consistent.

Device Structure

2.1 Device Ports

Table 2-1 Hardware Ports Description

<table>
<thead>
<tr>
<th>ID</th>
<th>Port Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>SD Card slot</td>
<td>Install a SD card.</td>
</tr>
<tr>
<td>2</td>
<td>Reset button</td>
<td>Before installing a SD card, verify the card not in write protection state. Before removing the SD card. Verify the card not in write protection state. Otherwise, the data may be lost. Before inserting or removing a SD card when the camera is running, stop video recording first.</td>
</tr>
</tbody>
</table>

2.2 Device Dimensions

Table 2-2 Multi-head cable Description

<table>
<thead>
<tr>
<th>ID</th>
<th>Core</th>
<th>Description</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Grounding wire</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Power port</td>
<td>DC 12V power supply wire</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Audio input</td>
<td>Connect to an external active audio device such as a speaker.</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Audio output</td>
<td>Connect to an external active audio device such as a speaker.</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Network port</td>
<td>Connect a standard Ethernet cable.</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Grey</td>
<td>Alarm input channel 1</td>
<td>Connect alarm input device</td>
</tr>
<tr>
<td>7</td>
<td>Yellow</td>
<td>Alarm input channel 2</td>
<td>Connect alarm input device</td>
</tr>
<tr>
<td>8</td>
<td>Orange</td>
<td>Alarm output channel 1</td>
<td>Connect alarm output device</td>
</tr>
<tr>
<td>9</td>
<td>White</td>
<td>Alarm output channel 2</td>
<td>Connect alarm output device</td>
</tr>
</tbody>
</table>

Device Installation

3.1 Installation Modes

The Mini PTZ supports wall mounting, pendant mounting and ceiling mounting.

3.2 Installation Steps

Step 1 Open the SD card cover in the bottom of the PTZ, remove the shake-proof metal block, insert in SD card, then fasten the SD card cover.

Please reserve the metal block. Insert the metal block to prevent the damage for PTZ model when transport again.
Step 2 Stick the installation location sticker on the Installation surface, drill four holes these are 50mm deep, based on the marks on the sticker. Drive the expansion bolts into the holes.

Step 3 Attach the PTZ camera, thread the multi-head cable through the connector, install the camera on the installation panel, and tighten the lock screws, as shown in figure 3-2.

Step 4 Thread the multi-head cable through the bracket (wailing mounting/pendant mounting) (ceiling mounting). Contact the bracket with connector, tighten the lock screws of bracket.

Step 5 Put the bracket to match the expansion bolts, fix the bracket with nuts.

**Quick Configuration (e.g. IE)**

4.1 Login

Step 1 Open the Internet Explorer, enter the IP address of IP camera (default value: 192.168.1.120) in the address box, and press Enter. The login page is displayed as shown in figure 4-1.

Step 2 Input the user name and password.

**Figure 4-1 Login**

User Name:
Password:

4.2 Modify IP address

Choose Configuration > Device > Local Network, the Local Network page is displayed. Enter 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 log in to the Web interface.

**Figure 4-2 Local Network**

Network ID
IP Address
Default Gateway

Preferred DNS Server
Alternate DNS Server

4.3 Browsing Video

To ensure the real-time video can be played properly, you must perform the following operation when you log in for the first time.

- If you can view the video directly, you can ignore the step of adding trusted sites.

Step 1 Open the Internet Explorer, Choose Tools > Internet Options > Security > Trusted sites > Sites, in the display dialog box, click Add, as shown in figure 4-4. If you can view the video directly, please ignore this step.

**Figure 4-4 Adding a trusted site**

**Figure 4-3 Adding a trusted site**

4.4 Two-way audio

Partial cameras do not support two-way audio, this section do not apply.

**Figure 4-5 Live Video**

4.4.1 Camera to PC

Connection:
Step 1 Connect microphone to PC audio input interface.
Step 2 Connect speaker to camera audio output interface.
Step 3 Log in camera Web, click to turn on two-way audio.

4.4.2 PC to Camera

Step 1 Connect alarm input device to Alarm IN0 and Alarm COM0 of multi-head cable.
Step 2 Connect alarm output device to Alarm OUT1 and Alarm COM1 of multi-head cable, alarm output interface can connect to normal open device only.
Step 3 Log in Web, Choose Configuration > Alarm > Alarm Output, set the parameters as shown in figure 4-6.
Step 4 Choose Configuration > Alarm > I/O Alarm Linkage, enable the I/O Alarm and set the parameters of Schedule Setting.

**Figure 4-6 Alarm**

4.5 Alarm configuration

Note: Partial cameras do not support alarm, this section do not apply.

Alarm input and Alarm output connection
Step 1 Connect alarm input device to Alarm IN0 and Alarm COM0 of multi-head cable.
Step 2 Connect alarm output device to Alarm OUT1 and Alarm COM1 of multi-head cable, alarm output interface can connect to normal open device only.
Step 3 Log in Web, Choose Configuration > Alarm > Alarm Output, set the parameters as shown in figure 4-6.
Step 4 Choose Configuration > Alarm > I/O Alarm Linkage, enable the I/O Alarm and set the parameters of Schedule Setting.

**Figure 4-6 Alarm**

**Figure 4-3 Adding a trusted site**

**Figure 4-2 Local Network**

**Figure 4-1 Login**

**Figure 4-5 Live Video**

**Figure 4-4 Configuring ActiveX control and plug-in**