Caution:

- 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.

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.

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.

Table 1-1 Packing list

<table>
<thead>
<tr>
<th>Component</th>
<th>Quantity</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bullet Network Camera</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Quick Setup Guide</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Accessory Package</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Installation Location Sticker</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

2 Device Structure

2.1 Device Ports

- Audio input port: Receive an analog audio signal from devices such as a sound pickup device.
- Audio output: Connect to an external audio device such as a speaker. Applied for camera with audio function.
- Power supply (DC 12V): Connect to a 12V direct current (DC) power supply.

Table 2-1 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>Network access port</td>
<td>Connect to a standard Ethernet cable or PoE. The green light is on, the network connection is normal; The yellow light flashes when the data is transmitted. Some models may not have the lights. Please refer to the actual product.</td>
<td>Support PoE supply.</td>
</tr>
<tr>
<td>2</td>
<td>Audio output</td>
<td>Connect to an external audio device such as a speaker.</td>
<td>Applied for camera with audio function.</td>
</tr>
<tr>
<td>3</td>
<td>Audio input port</td>
<td>Receive an analog audio signal from devices such as a sound pickup device</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Power supply (DC 12V)</td>
<td>Connect to a 12V direct current (DC) power supply.</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Alarm output G</td>
<td>Alarm output COM</td>
<td>Applied for alarm function</td>
</tr>
<tr>
<td>6</td>
<td>OUT</td>
<td>Alarm output terminal</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>G</td>
<td>Alarm input COM</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>IN</td>
<td>Alarm input terminal</td>
<td></td>
</tr>
</tbody>
</table>

Figure 2-1 Multi-head cable

Figure 2-2 Dimensions (Unit: mm)

Figure 2-3 Install SD card

Figure 2-4 Installation of personnel count

Figure 2-5 Pedestrian direction
3 Device Installation

The Bullet Network Camera can be installed on the ceiling or wall. You can select an installation mode based on site requirements. If the camera is installed on a concrete wall, install the expansion bolts before installing the bracket. If the camera is installed on a wooden wall, use self-tapping screws to install the bracket directly.

Installation Steps:
1. Stick the installation location sticker on the ceiling or wall, drill four holes based on the marks on the sticker. Drive the plastic anchors into the holes, install the camera on the ceiling or wall, and fix the screws as shown in figure 3-1.
2. Connect the multi-conductor cable.

NOTE
- The wall where the support is mounted must be able to withstand at least three times the total weight of the support and the camera.
- You can route cables from the top or from the side. If you use the side routing method, please route the multi-head cable out from the side gap at the bottom of the camera.

Step 3 Turn on the camera, connect the monitor, adjust the finishing adjustment, as shown in figure 3-2.

4 Quick Configuration(e.g IE)

4.1 Login
Step 1 Open the Internet Explorer, enter the IP address of IP camera (the default value: 192.168.0.120) 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.

NOTE
The default user name and password are both admin. Change the password when you log into the system for the first time to ensure system security. You can change the system display language on the login page.

IP CAMERA

User Name: 
Password: 

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.
Step 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
To ensure the real-time video can be played properly, you must perform the following operation when you login the web for the first time. If you can view the video immediately, please ignore it.
Step 1 The Internet Explorer: Choose Tools > Internet options > Security > Trusted sites > Sites, in the display dialog box, click Add, as shown in figure 4-3.
Step 2 In the Internet Explorer, choose Tool > Internet Options > Security > Customer level, and set Download unsigned ActiveX control and initialize and script ActiveX controls not marked as safe for scripting under ActiveX controls and plug-ins to enable, as shown in figure 4-4.

Figure 4-3 Adding a trusted site

Table 4-1 Parameters of Intelligent Analysis

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enable</td>
<td>Enable the fence, draw the warning area at live video by using mouse. The default status is disable.</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>The sensitivity of the retrieval target, choose from 1 to 5, 5 means the highest sensitivity, it will detect the target easily.</td>
</tr>
<tr>
<td>Limit Target Type</td>
<td>Enable, the type can be chosen, person or car/personificator.</td>
</tr>
<tr>
<td>Output Channel</td>
<td>Select to linkage camera’s relay output channel for “Intelligent Analysis Alarm”.</td>
</tr>
<tr>
<td>Audio Detect Alarm</td>
<td>Enable, user can choose the audio file to play if it happens alarm. The audio file can be set at Configuration &gt; Alarm &gt; Sound Alarm Output Interface.</td>
</tr>
<tr>
<td>Flashing Alarm</td>
<td>Enable, when the device detect target, it will be flashing.</td>
</tr>
<tr>
<td>Alarm Record</td>
<td>Enable, if user set the parameters of email, it will send email to user if it happens Intelligent Analysis alarm.</td>
</tr>
<tr>
<td>SMTP</td>
<td>Enable, if user set the parameters of FTP, it will send snapshot to FTP server if it happens Intelligent Analysis alarm.</td>
</tr>
<tr>
<td>FTP Upload</td>
<td>Enable, if user set the parameters of FTP, it will send snapshot to FTP server if it happens Intelligent Analysis alarm.</td>
</tr>
<tr>
<td>Schedule</td>
<td>Set valid time for all above Intelligent Analysis settings.</td>
</tr>
</tbody>
</table>

4.4 Set Intelligent Analysis
AI “Configuration > Intelligent Analysis” interface to set the parameters of intelligent analysis (Perimeter, Single Virtual, Fence, Double Virtual Fences, Multi Loner, Converse, Personnel Count), so that the user can trigger the alarm of target, as shown in figure 4-6.

Figure 4-6 Intelligent Analysis - Perimeter

4.5 AI Multi object
AI “Configuration > AI Multi object” interface, user can enable face detection, full body detection, vehicle detection, set the other parameters of detection, as shown in figure 4-7.

Figure 4-7 AI Multi-object

1 Personnel Count: User can query the data of personnel count, through year, month, day. The statistics can be downloaded. The data can be shown by line chart, histogram, list.
2 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.

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