NT8 8MP PIR Turret IP Camera Quick Installation Guide

The NT8 turret camera include passive IR technology for better motion sensing. It features a high resolution, low image distortion and low noise features which makes it suitable for surveillance and image processing systems.

Features
- 8 MP 3840 (H) × 2160 (V) pixel resolution
- H.265 / H.264 video compression
- 2.8 mm lens
- Flip, Rotation and Corridor modes
- 95 feet IR range
- 23 foot PIR range with 120° detection angle
- BLC, ROI and Privacy Mask
- 3D-DNR, D-WDR and IR cut filter
- IP66 weatherproof

What’s in the box
- Camera assembly
- Mounting hardware
- Waterproof Ethernet connector
- This instruction guide
- Drill template

Tools you need
To install the camera, you will need:
- 12 Vdc power source or Ethernet PoE injector. See Specifications for wattage requirement.
- microSD card for cameras provided individually (not part of a kit).
- Tools and additional fasteners (may be required) for mounting the camera
- Ethernet drop cable
- 12 Vdc power extension cable (if powering with 12 Vdc supply)

Installation
Before installation:
- Make sure that the device is in good condition and all the assembly parts are included.
- Check the specification of the products for the installation environment.
- Make sure that the wall or the ceiling is strong enough to withstand 3 times the weight of the camera.
- To avoid fire or shock hazard, use only UL listed power supplies. Verify that the power supply will provide the rated voltage and wattage for the camera. See the Specifications section.

Step 1. Mounting the camera
These cameras can be mounted on a wall or ceiling that has sufficient strength to support it. The Ethernet / power drop cable from the camera can be routed either through mounting surface or through a cable guide on the edge of the mounting base.
1. Unscrew the bezel from the mounting base, and then lift it off of the camera.
2. Separate the enclosure and the camera module from the mounting base.
3. If your camera has a microSD card slot, install a microSD card (up to 128GB capacity) in the camera. To install the card:
   a. Remove the access cover on the camera module.
   b. Slide the card into the card slot until it clicks into place.
   c. Reinstall the cover.
4. Using the mounting template or the mounting base, mark the holes for the camera mounting screws.
5. Drill holes for the screws that anchor the base to the mounting surface. The mounting hardware provided is appropriate for most surfaces. However, depending on the surface material and strength, more appropriate fasteners may be required.
6. Drill a 3/4" hole through the mounting surface for the drop cable, if necessary.
7. If using wall inserts for the mounting screws, install the wall inserts at this time.
8. Attach the mounting base the surface using the appropriate fasteners. If the camera drop cable will route through a cable guide, lay the cable in the guide before tightening the mounting screws.

9. If the drop cable will route through a hole in the mounting surface, route the cable through the hole, and then reassemble the camera on the mounting base. Thread the bezel onto the mounting base only enough to hold the assembly together. Do not tighten the bezel at this time.
10. Route extension cables from the power source and LAN switch (or LAN with PoE) to the mounting location.
11. Connect the network LAN and power extension cables to the camera drop cables:
   a. Connect the Ethernet LAN cable to the camera LAN drop cable. Protect the connection from moisture and other contamination, if necessary. A Weatherproof Ethernet Fitting is provided. Installation instructions for the fitting are included later in this document.
   b. If the camera is not powered using PoE (Power over Ethernet injector), connect the 12 Vdc power cable to the camera drop cable. The polarity of the drop cable connector is shown in the drop cable photo above.

   **WARNING**
   Failure of the power or Ethernet connector due to moisture or another contaminant is considered an installation error, which voids the warranty. If installing this camera in a location such as an overhang, shop, garage, kitchen, etc. where high humidity or dust is present, seal these connections adequately.

   **CAUTION**
   Do not apply power to the camera at this time. Before applying power to the camera, ensure that the polarity is correct. An incorrect connection may cause a malfunction and can damage the camera.

12. For outdoor installations, seal holes drilled in the mounting surface to block moisture and other contaminants, if necessary.
13. Secure the camera to the mounting surface using appropriate screws.
14. Apply power to the camera through the 12 Vdc power cable or PoE injector, as configured.

**Step 2. Using the Device Configuration Tool software**

**NOTE** Skip this Step if you are adding your camera directly to the Ethernet connectors on the backpanel if an NVR.

**Installation**

The Device Configuration Tool is a PC-based network utility for discovery of NTx, NBx or NDx cameras for your N-Series recorder. It provides an easy way to configure the camera’s network settings and reset the camera. It can be installed on a Microsoft® Windows® (Windows 7 or newer) operating system that has access to the network where your the cameras are installed. The Device Configuration Tool is available from your vendor.

1. Acquire the Device Configuration Tool from your vendor. At the time when this document was published, the file is named: **Device Config Tool_<version>.exe**
2. Run the .exe file on a Windows computer that is connected to the LAN where your cameras are installed. Follow the on-screen instructions to complete the installation. You may have to open ports in your firewall. The software automatically opens after it is installed and then searches for cameras on the LAN. See below.

   ![Device Search](image)

   **Modify network settings**

   Modify the network settings of the camera you are installing to avoid IP address conflicts on the LAN. Verify that your new settings will be compatible with other devices on the network before continuing. Consult with your network administrator for specific recommendations, if necessary.
3. Click the entry in the search results list for the camera you are installing. The frame at the bottom of the window shows **User Info** (Username and Password) and **Device Info** (network settings).
4. Enter the new and compatible network settings in the **Device Info** field (see below). Here, the IP address was changed to **192.168.0.68**, and the Gateway was changed to **192.168.0.1**.

   ![Device Search](image)

   **5. Click Modify**, and then slide the **Shift Bar** to the right. The **Status** of the modify operation is shown in the right-most column.

   ![Device Search](image)
6. Slide the Shift Bar to the left to see the new settings in the Search list.

Click here to login

Step 3. Perform the initial setup of the camera

NOTE: Skip this Step if you are adding your camera directly to the Ethernet connectors on the backpanel of an NVR.

1. To log into the camera and setup a password, click on the IP address of the camera in the list you want to log into (see above). If SurveillancePlugin was not previously installed on your computer, the following window will appear. You must install the plugin to access the camera.

2. In the screen above, click the download hyperlink.

3. In the following window, click Run in the footer menu, and then close your browser.

5. Return to the Device Configuration Tool menu, and then click on the IP address of the camera you want to log into.

6. If the following screen appears, click (select) Allow in the footer query.

7. Next, the browser will appear with a Password popup window. Use this feature to setup a unique password for your camera. Enter a password in the Password and Confirm fields that indicates a High security level as shown below, and then click OK. Copy the new password for the camera and save it in a safe place.

8. In the Login screen shown below using the new password you created previously.

4. Follow the on-screen instructions to complete the installation of SurveillancePlugin.exe.
Following a successful login, the camera live view window will appear. Notice that SubStream is shown by default. Click MainStream to see a better image.

Step 4. Using the NVR Live View screen - add camera

NOTE: Skip this step if you are adding your camera to an IP network.

If you are adding your camera directly to the NVR backpanel Ethernet connectors, use this step.

1. To add a camera to a frame, click the + icon in the upper right corner.
2. In the Quick Add menu that opens, a list of cameras that can be added appears at the top. Click on the one you want to add to the viewing frame.

3. Check the parameters in the menu to ensure they are correct (see above), and then click the Add button. Video from the camera will appear in the viewing frame.

Refer to the User Manual for your NVR for additional information about using your camera.

Step 5. Camera adjustments

1. While observing video from the camera, move the camera module to adjust direction, tilt and horizontal alignment to center the field of view on your surveillance target. Loosen the bezel if needed to so the camera module can be adjusted easily.
2. While holding the camera module and enclosure in place, tighten the bezel to lock the camera in position.

Step 6. Additional Setup procedures

Refer to the User Manual for your camera for procedures to customize your camera for your surveillance application.

Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>NTB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resolution</td>
<td>8 MP: 3840 (H) × 2160 (V)</td>
</tr>
<tr>
<td>Image Sensor</td>
<td>1/2.3&quot; Progressive CMOS</td>
</tr>
<tr>
<td>Min. Illumination</td>
<td>Color 0.1 lux @ F1.2 (AGC ON); B/W 0 lux @ IR ON</td>
</tr>
<tr>
<td>Shutter</td>
<td>1/5 ~ 1/20000s</td>
</tr>
<tr>
<td>Slow shutter</td>
<td>Supported</td>
</tr>
<tr>
<td>Lens</td>
<td>2.8 mm</td>
</tr>
<tr>
<td>F No.</td>
<td>F 2.0 ±5%</td>
</tr>
<tr>
<td>Day &amp; Night</td>
<td>IR cut filter with auto switch Day/Night/Auto/Schedule</td>
</tr>
<tr>
<td>Digital noise reduction</td>
<td>3D DNR</td>
</tr>
<tr>
<td>WDR</td>
<td>Digital</td>
</tr>
<tr>
<td>Video Compression</td>
<td>H.265 / H.264</td>
</tr>
</tbody>
</table>
### Video Bit Rate

- 8 Kbps ~ 8 Mbps

### Triple Stream

- Yes

### Resolution

- Main Stream: 8 MP (3840 × 2160), 5 MP (3072 × 1728) (5292 × 1944), 4 MP (2592 × 1520), 3 MP (2304 × 1296), 1080P (1920 × 1080), 720P (1280 × 720),
- Sub Stream: 1080P (1920 × 1080), 720P (1280 × 720), VGA (640 × 480), QVGA (320 × 240)

### Image Settings

- Flip, Rotation, Corridor mode, Saturation, Brightness, Contrast, Hue, Sharpness adjustable

### BLC

- Supported

### ROI

- Supported

### Privacy Mask

- Supported

### Video Analytics

- NA

### Protocols

- TCP/IP, HTTP, DHCP, DNS, DNS, RTP/RTSP, PPPoE, SMTP, NTP, UPnP, SNMP, HTTPS, FTP

### System Compatibility

- ONVIF (Ver 2.6, Profile S, Profile G)

### Interface

- RJ45 10M / 100M Ethernet interface x1

### IR Range

- 95 ft (30 m)

### SD Card Slot

- Yes, for microSD up to 128GB (For cameras provided individually only. Not for cameras in kits.)

### Alarm Trigger

- No

### Audio

- No

### Video Output

- No

### Reset Button

- No

### PoE

- Yes

### Waterproof

- IP 66

### Power Supply

- 12 Vdc / PoE

### Consumption

- ≤ 7 W

### Weight

- 1 lb (474 g) appr.

### Storage Temperature

- -22° ~ +140°F (-30° ~ +60°C)

### Operating Temperature

- -12° ~ +133°F (~30° ~ +55°C)

### Number of PIR Sensors

- 1

### PIR Detection Angle

- 120°

### PIR Detection Distance

- 23 ft (7 m)

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**Cleaning**

Clean the camera dome with an approved glass cleaning solution and a lint free cloth.

- Dust can be removed from the unit by wiping it with a soft damp cloth. To remove stains, gently rub the surface with a soft cloth moistened with a mild detergent solution, then rinse and dry it with a soft cloth. Do not use benzene, thinner or other chemical products on the camera assembly; these may dissolve the paint and promote damage of the surfaces.
- Remove all foreign particles, such as plastic or rubber materials, attached to the camera housing. These may cause damage to the surface over time.

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**Using the Waterproof Ethernet Fitting**

Install the **Waterproof Ethernet Fitting** on the Ethernet cable end at the camera when moisture or contamination exists in the area near the camera. The fitting includes several parts that must be installed in a specific order. To install the fitting:

1. Place the rubber O-ring over the camera drop cable end cap. Push the O-ring up to the connector cap.
2. If the network cable from the switch or router has a connector on the end, cut off the connector.
3. Place the lock nut onto the network cable from the router or switch as shown in the drawing to the right. The inside threads must be toward the camera end.
4. Place the rubber gasket onto the network cable above the lock nut as shown.
5. Place the end cap onto the network cable above the rubber gasket as shown. The fingered end must be toward the router or switch.
6. Install an RJ-45 connector onto the network cable.
7. Plug the RJ-45 connector with the network cable into the camera network drop cable.
8. Fit the end cap on the network cable onto the camera drop cable end cap. Rotate the network cable end cap to lock it in place.
9. Push the rubber gasket fully into the end of the network cable end cap.
10. Screw the lock nut onto the network cable end cap until it is fully seated.