GANZ THERMAL
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Fixed Camera Quick Start Guide
Document Number 1012610 Version D

November 2014

Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Install in accordance with the manufacturer's instructions.
6. Do not defeat the purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
7. Use only with the tripod or bracket specified by the manufacturer, or sold with the apparatus.
8. Installation of the equipment must comply with local and national electrical codes.
9. This product must be connected to a Power Over Ethernet IEEE 802.af compliant power source or a UL Listed "Class 2" power supply rated 12-24 V DC or 24 V AC minimum 13 W or 0.54 A.
10. Operating the camera at voltage levels outside the specified range may result in permanent damage to the unit and void the product warranty.
11. Clean the camera lens only with Kodak lens cleaning paper.
12. Failure to follow the proper procedure may cause permanent damage to the camera and void the product warranty.

WARNING

DEVICE SENSITIVE TO ELECTROSTATIC DISCHARGE

The camera electronics and electronic interfaces are sensitive to electrostatic discharge. Please follow appropriate ESD procedures when handling the camera and during installation. For PoE installations, Ganz strongly recommends the use of STP cabling and an earth grounded end point to ensure proper ESD immunity. For AC or DC powered installations, a properly earth grounded power source is strongly recommended.

CAUTION

To ensure a proper earth ground (between the Ganz Thermal camera and a PoE switch) Ganz strongly recommends the use of Shielded Twisted Pair (STP) cabling. Installations of Ganz Thermal cameras using a STP cabling and a properly earth grounded PoE switch are tested to comply with industry immunity standards for Electro Static Discharge. Any other installation method may leave the camera at risk and void the warranty.

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Important Legal and Regulatory Information

Legal Consideration
ALL STATEMENTS, INFORMATION, AND RECOMMENDATIONS IN THIS MANUAL ARE BELIEVED TO BE ACCURATE BUT ARE PRESENTED WITHOUT WARRANTY OF ANY KIND. NOTWITHSTANDING ANY OTHER WARRANTY HEREIN, ALL DOCUMENT FILES AND SOFTWARE ARE PROVIDED "AS IS" WITH ALL FAULTS. CB AMERICAS CORP DISCLAIMS ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, THOSE OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OR ARISING FROM A COURSE OF DEALING, USAGE, OR TRADE PRACTICE. IN NO EVENT SHALL CBC AMERICAS CORP BE LIABLE FOR ANY INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES, INCLUDING, WITHOUT LIMITATION, LOST PROFITS OR LOSS OR DAMAGE TO DATA ARISING OUT OF THE USE OR INABILITY TO USE THIS MANUAL, EVEN IF CBC AMERICAS CORP HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES

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Regulatory
This product has been tested and found to comply with the limits of FCC Class A Part 15 Subpart B and CES-003.

RoHS
This product complies with the European ROHS directive.

Introducing Ganz Thermal Fixed Mount

This document provides information about Ganz Thermal Fixed Mount, Fixed Focal Length Infrared Camera. You can download all required documents including the more detailed user manual at www.ganzsecurity.com. The camera system is an Internet Protocol (IP) networked solution, conforming to the Open Network Video Interface Forum (ONVIF™). The Ganz Thermal fixed mount models also include NTSC/PAL Analog video.

What's in the Box

Ensure that you have the following package contents
- Ganz Thermal Fixed Mount Camera with the Back Cover attached and a brown Desiccant pack inside the cover for shipping
    - The Ganz Thermal Fixed Mount models also include a 90-degree BNC Adapter already attached to the back of the camera
    - Back cover with screws in the hardware kit or back cover with captive screws inserted.
- Ganz Thermal Fixed Mount Camera Base
- Ganz Thermal Fixed Mount Camera 4 Hole Mount Adapter
- Ganz Thermal Fixed Mount Camera with a newer single hybrid base mount adapter.
- Ganz Thermal Fixed Mount Camera Solar Shroud
- Hardware Kit with several small plastic bags containing
    - 1 - Cable Sealing Gland with electrical nut
    - 1 - O-Ring
    - 16 - #6-32 X 5/8" screws including 2 spare or 8 screws for the combined hybrid base mount
    - 1 - White Desiccant for installation
    - 3 - Sealing washers with gasket including 1 spare (not included with back cover shipped with captive screws)
    - 3 - Stem Bumpers including 1 spare
    - 1 – Power Block (4-pin: Fixed Mount, 5-pin: Fixed Mount)
- Quick Start Guide (this guide)
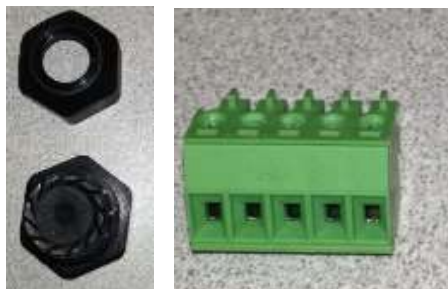- End User Licensing Agreement (EULA)

Ganz Thermal Fixed Mount Components and Hardware Kit

Comparison between Old Base Mounts and New Hybrid Base Mount

Cable Glands and Power Blocks for the Ganz Thermal Fixed Mount 320x240 & 640x480 models

Installing the Fixed Mount Camera

You will need the following items (not included) before you can install the IP Camera (recommended tool list)

- Power source: PoE Switch, 12-24V DC or 24V AC
- IP Network
- Ethernet Cable (STP Cat5 recommended)
- Tripod or Mounting bracket for mounting the IP Camera
- A Phillips head #2 screwdriver
- 2 Open End Wrenches – 1 inch (25mm), OR adjustable wrenches
- A 6-inch scale OR ruler
- Torque screwdriver set to 10 inch-pounds (Electric or manual)
- Torx (hole in the middle) T10 Pin-In Security bit – 3.5 inch (90mm) in Length (not required for shipments with Phillips head screws)
- Hex Wrench
- RJ-45 connecter and
- RJ-45 Crimping Tool
- Suggested Tools for Analog Video (Fixed Mount):
  - Coax Cable
  - Coax Cable Cutter/Stripper
  - BNC Connector
  - BNC Crimping Tool

Recommended Tools

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Recommend Tools for Analog Video (Fixed Mount only)

Preparing the Cable

1. Disconnect power from any previously installed cable(s).
2. Take the number 2 Phillips head screwdriver and pierce a hole in the center of the cable gland.
3. If needed, pierce the smaller holes on the outer perimeter of the cable gland membrane for AC/DC power and RS-485 (Fixed Mount 320x240 only) wires
4. Remove the electric nut from the sealing gland.
5. Place the O-ring (Orange) on the threaded end of the cable gland. This is necessary to insure a good seal.
6. Cut off the RJ-45/BNC connector if using existing cable
7. Feed existing or new cable(s) through the components in the following order:
   a. 4 Hole Mount Adapter ,if required
   b. Base Mount
   c. Electrical Nut (Convex side) of the supplied Cable Sealing Gland
   d. Bottom of the IP Camera body through the back hole below the connectors

Securing for IP66 (PoE only)

1. Slide the Ethernet cable through the threaded end of the cable sealing gland, with Orange O-Ring installed
2. Measure approximately 4.5 inches of cable slack from the end of the cable to the rubber grommet of the sealing gland. Use a scale to measure the length
3. Attach one open end wrench onto the flange of the cable gland and tighten the compression nut, with the second open wrench, to approximately 8 in-lbs. of torque
4. Assemble a new RJ45 head to the Cat 5 Ethernet Cable

IP66 (PoE only)

Securing for IP66 (Ethernet & AC/DC Power):

1. Slide the Ethernet cable through the threaded end of the cable sealing gland, with Orange O-Ring installed
2. Slide the 2, 20 AWG power wires through the back side of the cable sealing gland
3. Measure approximately 4.5 inches of cable slack from the end of the cable to the rubber grommet of the sealing gland. Use a scale to measure the length
4. Attach one open end wrench onto the flange of the cable gland and tighten the compression nut, with the second open wrench, to approximately 50-55 in-lbs. of torque
5. Assemble a new RJ45 head to the Cat 5 Ethernet Cable
6. Assemble a mating power connector to the 2 AC or 2 DC power cables.

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IP66 (Ethernet and AC/DC Power)

Securing for IP66 (Analog & AC/DC Power – Fixed Mount 320x240 & 640x480 Only)

1. Slide the Coax cable through the threaded end of the cable sealing gland, with Orange O-Ring installed
2. Slide the 2, 20 AWG power wires (and any RS-485 wires) through the back side of the cable sealing gland
3. Measure approximately 4.5 inches of cable slack from the end of the cable to the rubber grommet of the sealing gland. Use a scale to measure the length
4. Attach one open end wrench onto the flange of the cable gland and tighten the compression nut, with the second open wrench, to approximately 50-55 in-lbs. of torque
5. Assemble a new RJ45 head to the Cat 5 Ethernet Cable
6. Assemble a mating power connector to the 2 AC or 2 DC power cables (and RS-485 cables if used).

Securing for IP66 (Analog & Ethernet – Fixed Mount 320x240 & 640x480 Only)

1. Put the nut onto the cables first. And then push the analog video cable (RG179BU required for this configuration) and CAT5 cable through the gland. The CAT5 cable goes through the center. The analog video goes through one of the 5 outer holes.

2. Push the gland housing over the cables

3. Push the gland rubber into the gland housing

4. Tighten the gland nut onto the gland housing. Leave about 5 inches of cable sticking out of the gland housing

5. Insert the cable and gland into the camera. Connect the Analog cable and CAT5 cable to the camera. Slide the gland housing-to-chassis nut over the cables. Tighten the gland housing-to-chassis nut into the camera

6. Not shown, crimp the other end of the cables in place (not shown).

For all Configurations:

7. Pull the cable(s) taut back through the IP Camera, exposing the thread of the cable sealing gland out of the base of the IP Camera
8. Assemble the Electrical Nut back onto the gland and tighten the Nut securely until it is finger tight. Use a flat head screwdriver to continue turning the electrical nut to approximately 50 in-lbs. of torque

Assembling the Fixed Mount Camera

9. Using 8 of the #6 screws, assemble the Base Mount adapter (or newer hybrid mount), to the IP Camera. Tighten the 8 fasteners to approximately 10 in-lbs. of torque with the Electric Screw Driver, and T10 Security bit or Phillips #2 bit depending on screws provided
10. Using 4 of the #6 screws, assemble the optional Standard 4 hole Mount, to the Base Mount, and tighten the fasteners to approximately 10 in-lbs. of torque with the Electric Screw Driver, and T10 Security bit or Phillips #2 bit depending on screws provided.

11. Connect the cable(s) to the respective connector:
    a. Ethernet: Ethernet Port
    b. Analog: Analog Video Out (Fixed Mount 320x240 & 640x480 Only)
    c. AC/DC Power for Fixed Mount 320x240 and 640x480: Connect wires to power block according the pin-out shown on the next page and described below:
        i. If powering the camera with an AC supply, connect AC+ to the 24VAC input and the AC- to the 12VDC input.
        ii. If powering the camera with a DC supply, connect the DC+ to the 12VDC input and the DC- (or ground) to the GND DC- (or ground) to the GND input.

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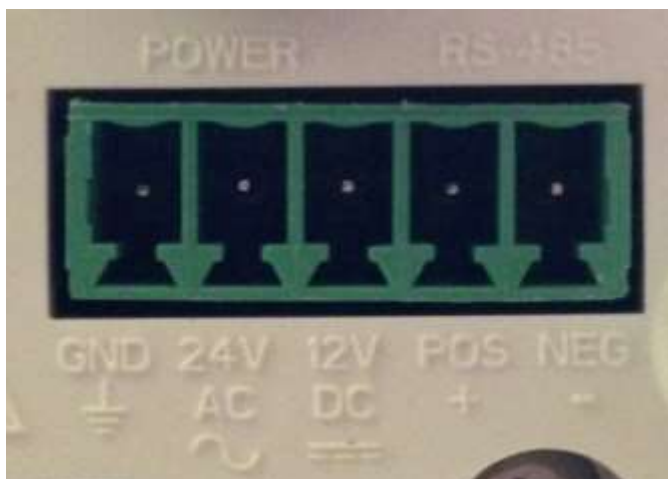
Fixed Mount 320x240 & 640x480 Pin-Out
Pins 1-3: Power (GND, 24V AC, 12-24 DC/24V AC)
Pins 3-4: RS-485 (POS, NEG)

d. AC/DC Power for Fixed Mount: Connect wires to power block according the pin-out shown below:

   i. If powering the camera with an AC supply, connect AC+ to the 24VAC input and the AC- to the other 24VAC input

   ii. If powering the camera with a DC supply, connect the DC+ to the 12VDC input and the DC- (or ground) to the GND input.
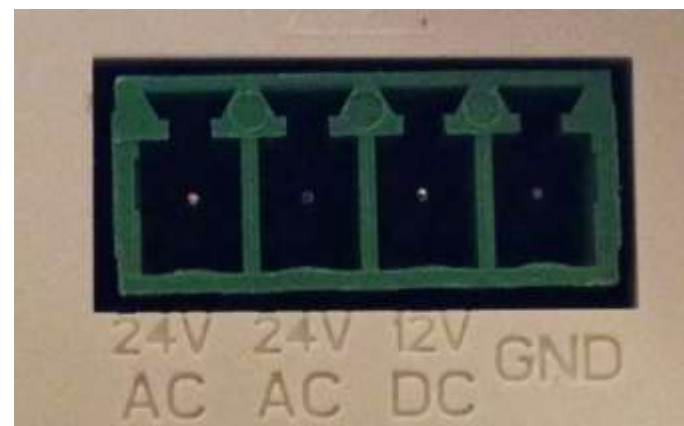
Fixed Mount Pin-Out

   e. RS-485: Connect wires to power block according to the pin-out sown on the left (Fixed Mount 320x240 & 640x480 only)

12. Reconnect Power to the existing cable(s)
13. Check for Solid LED on the Ethernet connector to acknowledge connectivity to the IP network. The status LED indicators are:
    a. LED 1: Solid Green for 10MB connection or Flashing Green for Activity
    b. LED 2: Solid Amber for 100MB connection.
14. Place the supplied white desiccant into the Back Cover
15. Assemble the Back Cover. If captive screws are provided in the Back Cover, secure to the IP camera with a Phillips #2 screwdriver. Otherwise, secure Back Cover to the IP Camera using two #6 screws and two Master Seal Washers (metal side against the head of the screw and gasket side against the camera body). Tighten the 2 fasteners to approximately 10 in-lbs. of torque
16. Assemble the 2 Rubber Stem Bumpers onto the 2 detents in the concave surface of the Solar Shroud
17. Snap the Solar Shroud, to the Base Mount

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The three possible configurations of the Fixed Mount Series

Back Cover and White Desiccant

Back Cover screws and Sealing Washer

Camera with Base mount and
Standard 4-Hole mount

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Solar Shroud and Stem Bumpers

Fixed Camera can be mounted on standard bracket (WB-1W)

Fully assembled Camera

Mounting the Fixed Mount Camera
The Fixed Mount camera can be mounted on a Tripod or Ganz Fixed camera Bracket. For Tripod mount, use Fixed Mount Tripod Adapter offered as an accessory.

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Accessing the Fixed Mount Camera

After installing the Ganz Thermal Fixed Mount Series Camera, you will need to access the IP Camera to make configuration changes and view live video using the Ganz Thermal Web Interface. In order to make these changes, you can connect to the IP Camera from any PC on your network. The PC must meet below requirements
- OS - Microsoft Windows 7 or Windows XP or Windows Vista
- Internet Explorer 9.0 or Mozilla Firefox 8.0
- VLC Media Player Software 2.0.0 – can be downloaded from the Ganz Thermal Camera directly through the Web Interface or from http://www.videolan.org/vlc/

Device Discovery
- From Windows 7, click on Start/Computer/Network
- A list of devices connected to your network will appear
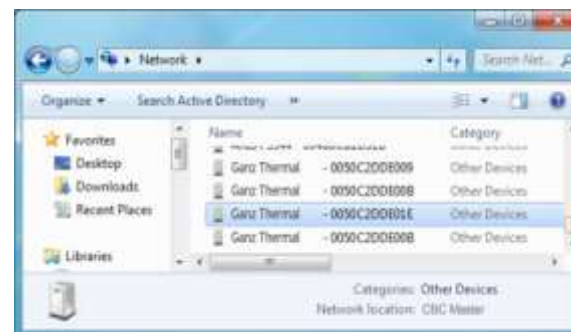
Login to the Fixed Mount Camera

For Windows 7 OS, double click on the name of the Camera from the Device Discovery interface. For other Operating Systems, login to the router, find the attached Fixed Mount Camera and find its IP address. Enter the IP address of the IP Camera on the Browser URL line.
A login screen will appear. Enter the default username and password.

Username is admin (lower case)
Password is 1234

If you have not downloaded the VLC Media Player, you can download from the Fixed Mount Camera. After login to the IP Camera, follow the prompt at the bottom of the screen to install the VLC Media Player.

Viewing Live Video

Once you have successfully logged in to the IP Camera, live video image can be seen on the Browser.

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Congratulations!! Ganz Thermal Fixed Mount Series Camera Installation and Configuration is now complete.

For More Information

Category	Online Location
Ganz Thermal Fixed Camera Documentation	www.ganzsecurity.com/manuals
Ganz Thermal Fixed Camera Support	www.ganzsecurity.com/support
VLC Media Player	http://www.videolan.org/vlc/