

# ZC-OH2 TAMPER-RESISTANT INDOOR/OUTDOOR HOUSING INSTRUCTION MANUAL

FOR USE WITH ALL GANZ ZC SERIES MINIDOME CAMERAS



CBC (AMERICA) Corp.

Please carefully read and observe all instructions and warnings contained in this manual or on the product. Improper installation may damage the device and void the warranty.

## IMPORTANT

Installation should be performed by a qualified service person and conform to all local codes.

## DESCRIPTION

Model ZC-OH2 is a tamper resistant indoor or outdoor housing which is designed to accommodate all CBC ZC series minidome cameras. This housing will accept the following cameras:

Model ZC-DI024EHA	Hi-Res B/W Camera with 2-4mm A/I varifocal
Model ZC-DI036EHA	Hi-Res B/W Camera with 3-6mm A/I varifocal
Model ZC-DI049EHA	Hi-Res B/W Camera with 4-9mm A/I varifocal
Model ZC-D2550EHA	Hi-Res B/W Camera with 5-50mm A/I varifocal

Model ZC-DI024NHA	Hi-Res Color Camera with 2-4mm A/I varifocal
Model ZC-DI036NHA	Hi-Res Color Camera with 3-6mm A/I varifocal
Model ZC-DI049NHA	Hi-Res Color Camera with 4-9mm A/I varifocal
Model ZC-D2550NHA	Hi-Res Color Camera with 5-50mm A/I varifocal

## MAJOR FEATURES

- Polycarbonate dome with rugged cast aluminum housing withstands the blow from a 10 pound sledgehammer
- O-Ring Sealed housing is completely air-tight and water-tight (when properly installed) and is suitable for virtually any weather condition
- Quick and easy installation utilizing 8 different dome camera options
- Housing mounts directly to any wall, ceiling or 4S Electrical box
- Interchangeable dome with tinted, gold and chrome options

## INSTALLATION

### 1) Standard Housing Installation

- a) **Caution: Do Not Remove Screws.** Loosen the 3 set screws from the dome base using the supplied allen key and remove the dome cover. the O-Ring makes a tight seal, so a thin-bladed screw-driver may be needed to separate the dome cover from the housing base.

- b) Remove the rubber plugs from the mounting holes inside the base. Remove **only** those plugs for the mounting holes that will be used.
- c) Using a minimum 7/32" drill bit, drill the cable feed hole and feed the video/power cable through the mounting surface.
- d) Holding the dome against the mounting surface, mark and drill the 4 mounting holes. Fasten the base to the mounting surface using the supplied #8 Phillips screws, rubber washers and plastic anchors. Be sure to re-install the rubber plugs into any unused mounting holes. (Depending on the mounting surface, other hardware may be needed.)

**Note: (If using other mounting hardware)**

**To prevent damage from leakage, apply silicone sealant around the inside of the 4 mounting holes before inserting screws or bolts.**

### 2) Optional Conduit Base Installation (Model ZC-CB2)

- a) Install optional conduit base using supplied screws and anchors or other hardware. Apply a bead of silicone sealant between the base and mounting surface.
- b) Route conduit to base and inset into conduit hole. Lock down the conduit end with allen head set screw.
- c) Feed the power/video cable from the housing base to the loose wires from the conduit. It may be necessary to shorten the power/video cable so that all of the spliced connections fit within the center of the conduit base.
- e) Making sure all the connections are tucked into the center of the conduit base, install the housing base to the conduit base using the supplied 4 machine screws. Apply a bead of silicone sealant between the housing base and conduit base.

### 3) Install ZC Series Dome Camera

**Note:** Before installing the ZC series camera into the housing, remove its front dome cover, plastic retaining ring and video cable. Only the base of the camera will be installed into the housing.

- a) Place the camera base into the housing, making sure that the 4 power and video wires feed through the hole in the camera base.
- b) Fasten the camera to the housing base.  
*For 2-4mm, 3-6mm and 4-9mm models:* Use the supplied #6 X 1/2" machine screws and spacers.  
*For 5-50mm models:* Use the supplied #6 X 5/16" machine screws. Spacers should not be used with this model.
- c) Make the 4 wiring connections in accordance with the instructions below.

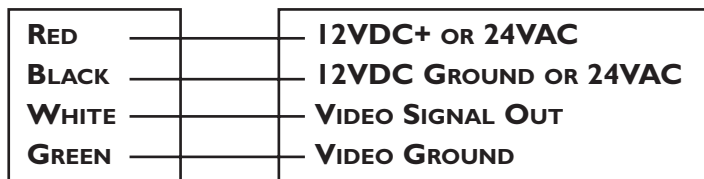
### 4) Connect Power

**Important:** Make wiring connections only after it has been determined that power has been disconnected. Failure to do so could lead to permanent damage to the camera and void the warranty. The ZC series cameras will accept either 12 Volts DC or 24 Volts AC. If using 12VDC, be sure to determine the polarity before connection. The Red wire connects to 12VDC (+) Positive terminal and the Black wire connects to the Ground terminal. When using 12VDC, use only a regulated power supply with a minimum 300mA output, (model C12DCR recommended). For 24VAC input, connect the Red and Black wires to the 2 power input terminals.

### 5) Connect Video

Connect the White wire to the Video-Out Terminal and the Green wire to the Ground Terminal as shown in **Figure I**. **Note: A BNC connector (included) can be crimped on to the white and green video signal wires using the supplied butt connectors. It is recommended these connections be crimped with a crimping tool and covered with shrink tubing.**

### WIRING DIAGRAM:



**Note:** If necessary, needle nose pliers can be used to make power and video connections.

### **Note: Special Focusing Instructions when using 5-50mm dome.**

If the 5-50mm lens is set to a focal length of 20mm or greater, the dome cover must be held in front of the lens while focusing to obtain proper focus.

### 6) Install the Desiccant Pack

After the camera has been installed, attach the supplied desiccant pack to the camera. Remove the desiccant pack from its storage bag. Remove plastic from the double-sided tape and attach to the camera bracket as shown in Figure I. The desiccant pack is used to absorb any moisture trapped inside the dome during installation. To avoid excessive moisture buildup, it is recommended that the camera not be installed in rainy or excessively damp conditions. The desiccant pack can be replaced if condensation develops inside the housing.

### 7) Re-Install Dome Cover

Place the dome cover on the housing base. Push the cover lightly onto the base and tighten the 3 tamper resistant screws until the cover seals tight against the housing base. **Caution: Do Not Over Tighten!**

## CHANGING THE POLYCARBONATE DOME

The ZC-OH2 housing is supplied with a clear dome with painted slot as the standard. In the event the dome is scratched or damaged or if a different dome is required (tinted, gold or chrome), the dome can be replaced. Remove the 4 retaining screws and washers on the inside of the dome cover and remove the aluminum retaining ring. The dome can then be removed. Due to a tight seal, some pressure may be required to the top of the dome to break the seal. After installing the new dome, replace the retaining ring and tighten the 4 screws and washers until the retaining ring is flush with the adjacent surface.

**Regulatory Notice, FCC Rules:** Part 15 This device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that the interference will not occur in a particular installation.

## MAINTENANCE NOTES

If the housing cover is opened frequently or if the O-Ring dries out, apply a light coat of good quality silicone based grease to the O-Ring to maintain a water-tight seal. Replacement O-rings and other replacement parts are available through CBC (America) Corp.

## OPTIONS

### 1. Side Conduit Adapter Plate

In applications where a hole cannot be made through the mounting surface, an adapter plate is available which accepts 1/2" conduit from the side (Model ZC-CB2).

### 2. Pendant Mount

A pendant mount adapter is available for applications which require the dome to be dropped from the ceiling from a pipe. The pendant mount adapter accepts a 1" NPT pipe thread (Model ZC-PM2).

### 3. Wall Mount

The wall mount combines the pendant mount with a wall mount bracket for various wall mounting applications.

### 4. Housing Color

Different housing colors (either painted or anodized) are available for a minimum lot.

## HOUSING SPECIFICATIONS

Construction: Cast Aluminum, stainless steel hardware, polycarbonate dome.

Finish: Off-White Powder Coat Paint

Ratings: Designed to meet NEMA 5, IP67

Dimensions: 5.82" diameter, 4.25" overall height

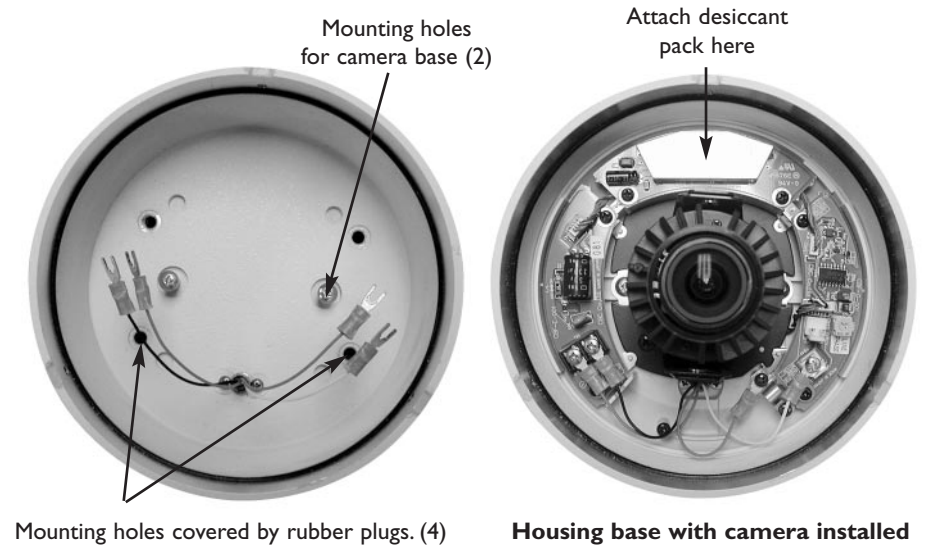
Unit Weight: 1 lb, 15 oz.

Temp Range: -20 degrees to +140 degrees F (ZC series dome cameras)

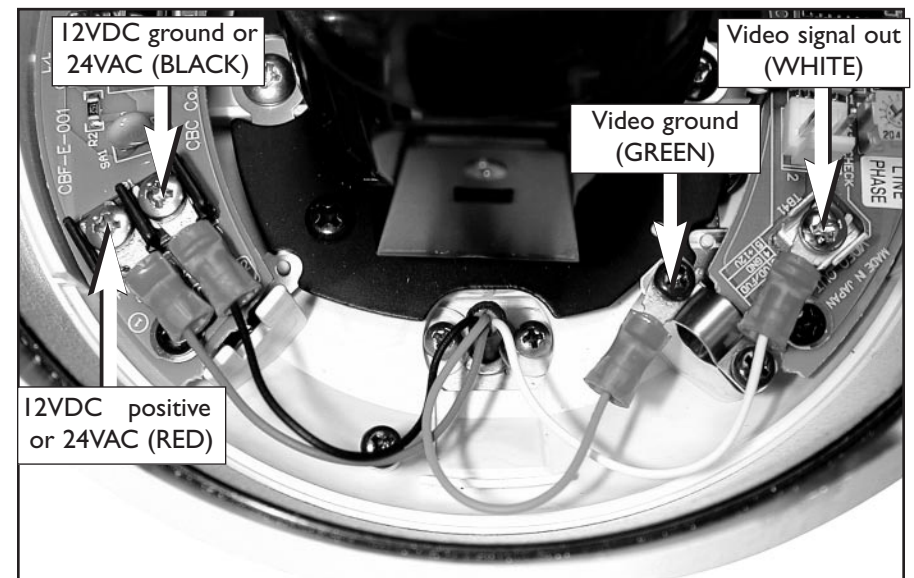
\*Design and product specifications subject to change without notice.

## ZC-OH2 INDOOR/OUTDOOR HOUSING INSTRUCTION MANUAL

FIGURE I



POWER AND VIDEO CONNECTION WIRES (4)



**OPTIONAL CONDUIT BASE MODEL ZC-CB2**



**OPTIONAL PENDANT MOUNT  
MODEL ZC-PM2**



**OPTIONAL WALL MOUNT  
MODEL ZC-WM2**



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