

# VX IR Series Install Guide

For IR Equipped Analog & HD Analog Vandal X Outdoor Dome Cameras

## Included Items:

- Vandal X Series Dome Camera x 1
- Torx Wrench (T20 Security) x 1
- Instructions x 1
- Test Monitor BNC Lead x 1
- Mounting Screws x 4
- Drywall Anchors x 4

## Required Items:

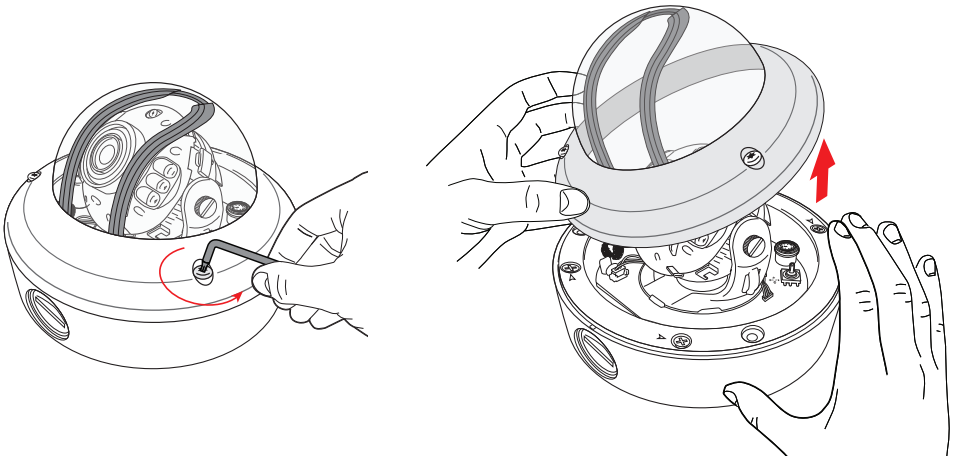
- Phillips Head Screwdriver or Drill with Phillips Head Bit
- DC12V or AC24V Power Supply

## Optional Items:

- CE-REMOTE (OSD Remote Control)

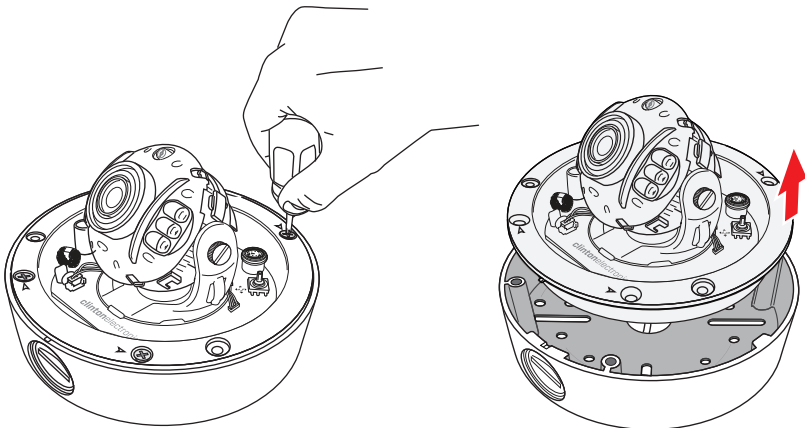
## 1a. DISASSEMBLE

Use the supplied Torx wrench to loosen the 3 Torx screws that hold the dome assembly onto the base. Remove the top dome cover from the camera base.



## 1b. DISASSEMBLE

Remove the four Phillips head screws that hold the inner case onto the camera base, then remove the inner camera assembly from the camera base. Keep these 4 screws for final assembly.

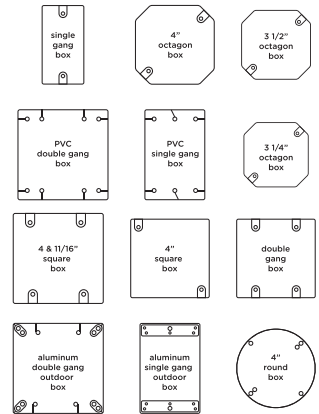
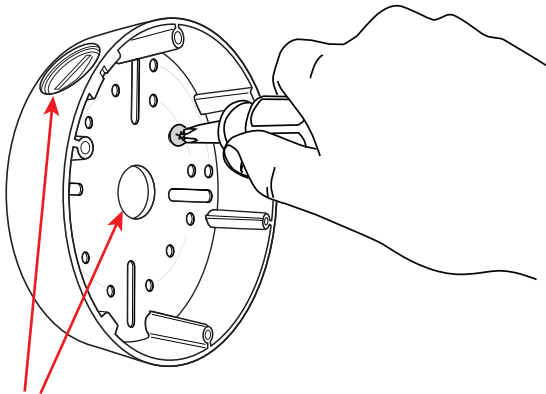


## 2. MOUNT OUTER CASE

If mounting to solid surface, use the four Phillips head mounting screws & drywall anchors if necessary.

If mounting to a conduit box, choose the mounting hole pattern that best suits your application and use the appropriate screws. Multiple mounting hole patterns are provided.

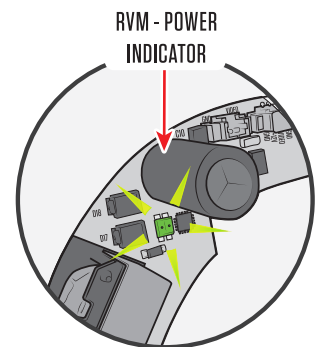
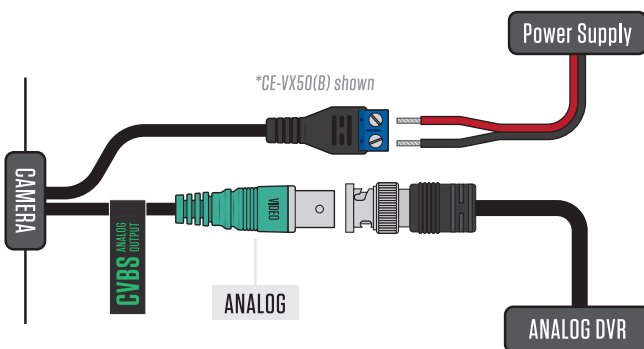
3/4" EMT conduit can also be attached to the outer case using a threaded 3/4" EMT conduit adapter (not included). Connect either to the hole in the bottom/center of the case or the hole on the side.



3/4" EMT Threads

## 3. CONNECT CABLES

Make connections to the BNC cable and the power connection. Feed any cable slack into the mounting surface. A Power LED (on the circuit board) will illuminate GREEN when the camera is receiving correct power. To ensure quality operation, verify proper BNC and power termination, along with proper voltage at camera.



**Default Analog Output: CVBS**

Analog Output Selectable: (CVBS / A\_HD / C\_VI / T\_VI)

Refer to included "HD ANALOG" page for information on changing signal type.

\*CE-VX30(B): Analog is Yellow & Silver Connector. HD Analog not available.

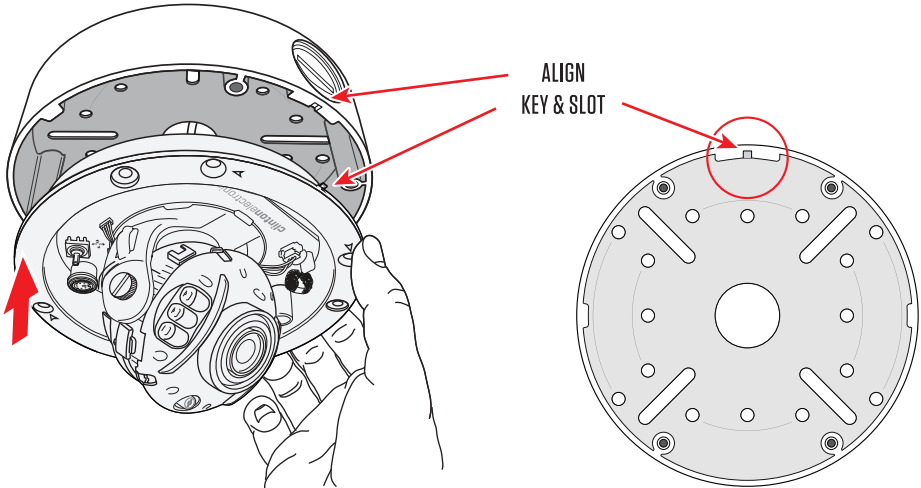
### RVM - Rated Voltage Monitoring

LED COLOR	STATUS
GREEN	Safe Power
RED - SOLID	Over 29 Volts (AC24V)
RED - BLINK	Under 10 Volts (DC12V)

#### 4a. ATTACH CAMERA

Replace the inner camera assembly into the mounting base as shown below.

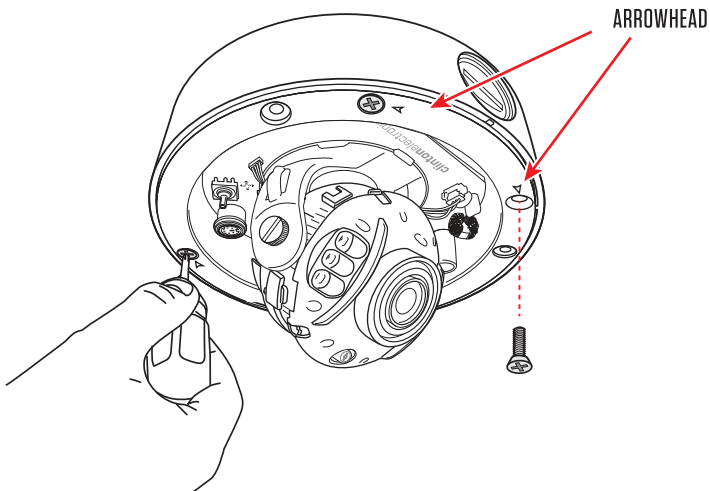
Align the key on the lip of the inner camera assembly with the slot on the camera base when reassembling. If these are not aligned properly the weather resistant seal will be compromised, allowing water to leak into the camera.



**⚠ ATTENTION** *If the key & slot are not aligned properly, the weather resistant seal will be compromised, allowing water to leak into the camera.*

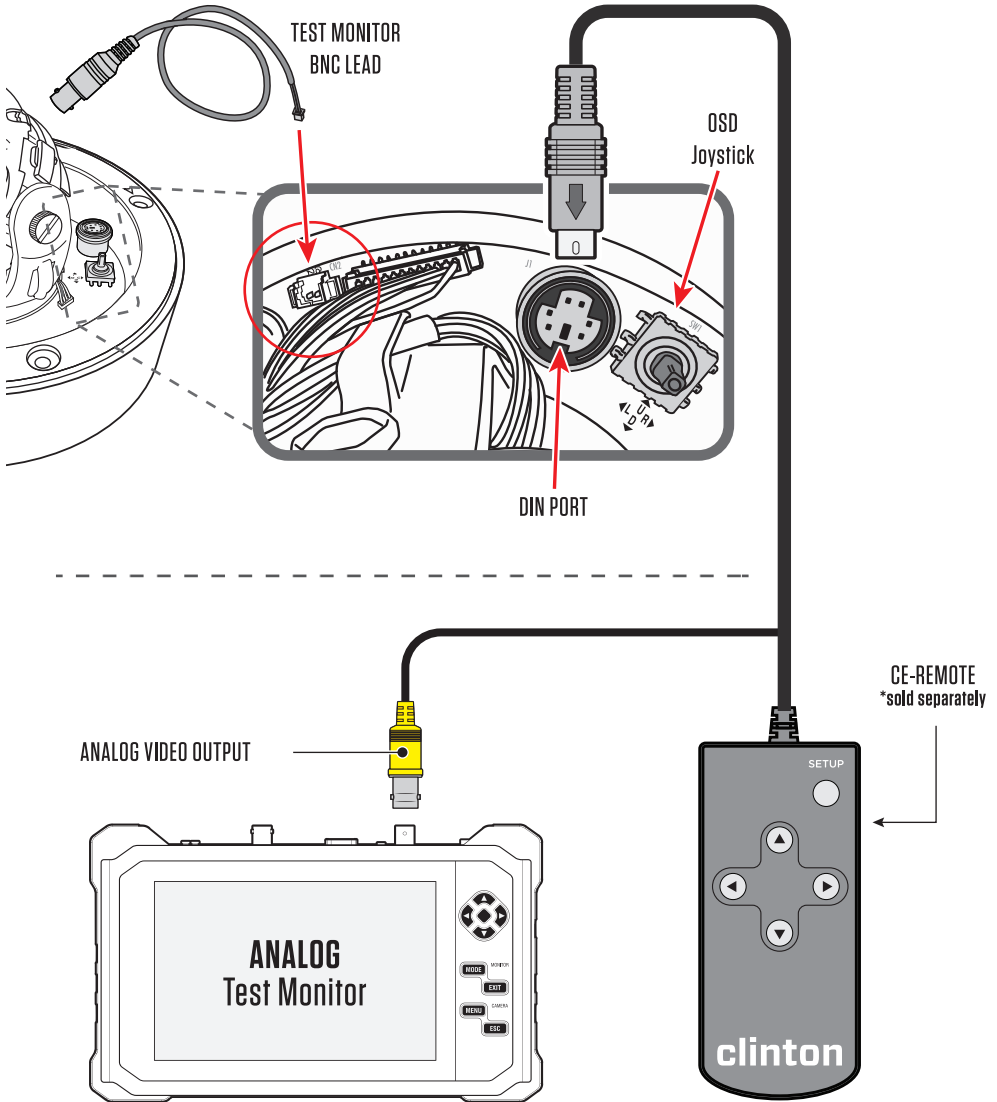
#### 4b. ATTACH CAMERA

Replace the four Phillips head screws that hold the inner case to the camera base. The four holes are marked with arrowheads.



## 5. TEST MONITOR / OSD CONTROL




To test the camera with a test monitor use either the supplied Test Monitor BNC Lead or optional CE-REMOTE. The Test Monitor BNC Lead plugs into the small, 2 PIN connector (marked CN2) next to the wide 12 wire connection on the circuit board. The CE-REMOTE plugs into the DIN Port. OSD Adjustment can be made by using the OSD Joystick or the optional CE-REMOTE. Refer to OSD Manual for detailed instructions on adjusting camera settings.

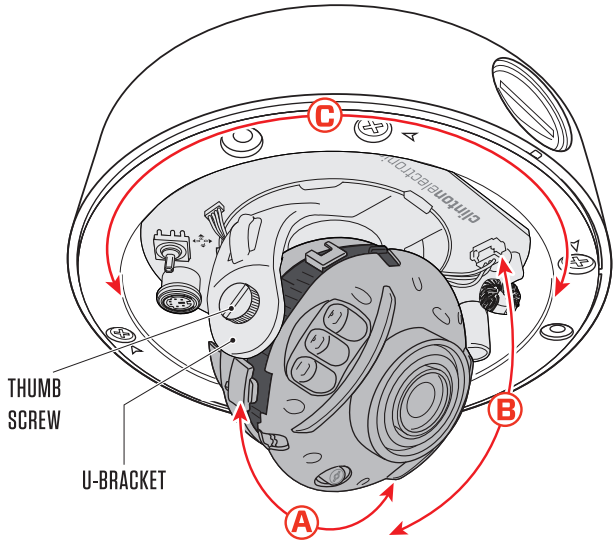


**! NOTICE** The test monitor connection on the CE-REMOTE and the 2-pin connector on the camera board will match the output from the main Analog connector. If the camera is set to an HD Analog option, ensure the test monitor will support that signal type.

## 6. CAMERA ANGLE ADJUSTMENT

Adjust the angle of the camera as necessary.

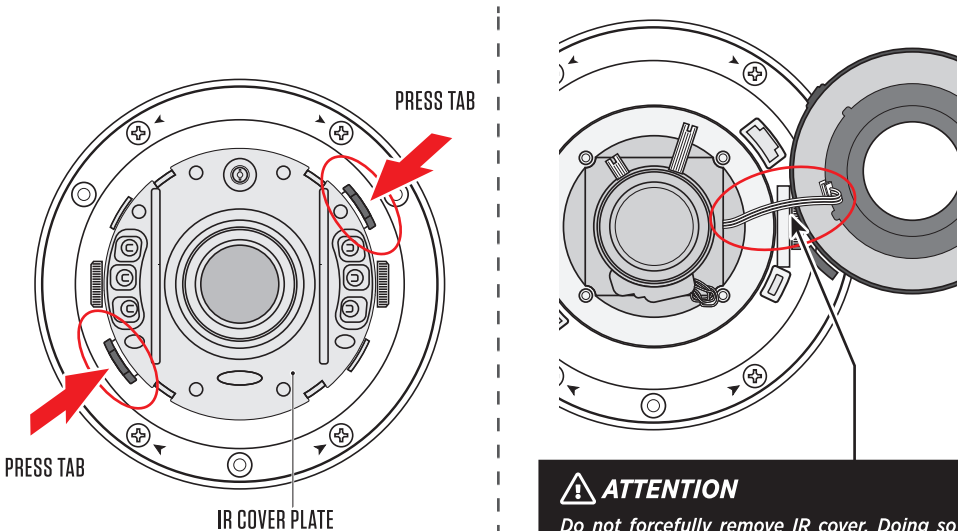
-  **A. Lens Rotation:** Rotate the notched area on the camera assembly.
-  **B. Lens Angle:** Loosen thumb screws on each side to adjust the tilt of the lens.
-  **C. Camera Plate Rotation:** Pinch the gimbal U-Bracket and rotate the camera assembly on the base.



*\*If the camera image is upside-down and needs to be flipped/rotated, it may be easier to flip/rotate the image via the OSD Menu; (Main Menu/Special/Rotate). Refer to OSD manual for more information.*

## 7a. ZOOM / FOCUS ADJUSTMENT

The Zoom & Focus levers are located behind the IR cover plate. To access the levers, press the 2 tabs on either side of the cover. Lift the cover carefully away from the camera, taking care not to disconnect or damage the wires for the IR LEDs and IR Sensor.

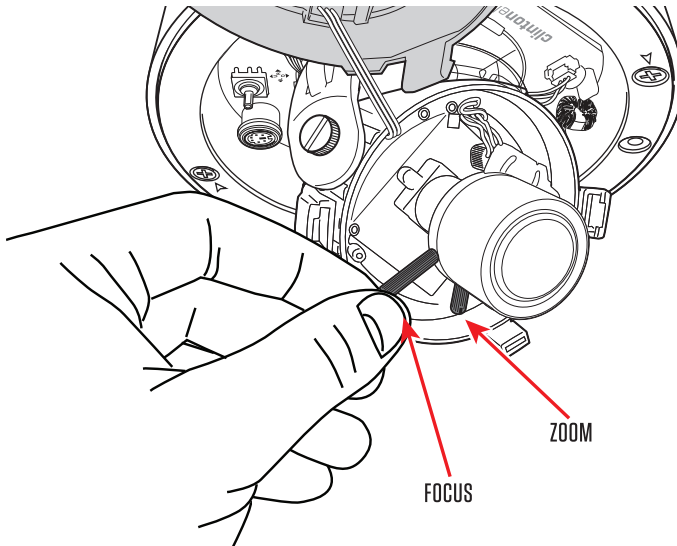


### **ATTENTION**

*Do not forcefully remove IR cover. Doing so can damage to the IR LED wiring, causing the LEDs to not operate correctly.*

## 7b. ZOOM / FOCUS ADJUSTMENT

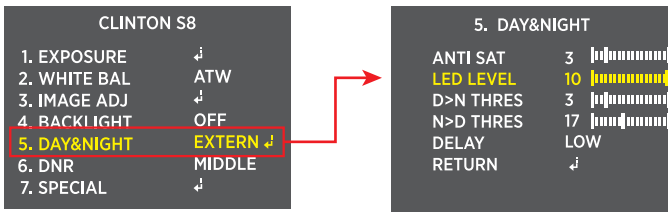
Loosen the appropriate adjustment lever by turning counter-clockwise. To widen or narrow the viewing angle rotate the ZOOM lever to the Left or Right. Rotate the Focus lever Left or Right to focus the lens.



After zoom / focus adjustments have been made, tighten the adjustment levers to lock the adjustments.  
\*Lens shown and adjustments may vary depending on camera model.

## 8. IR LED ADJUSTMENT

To adjust the intensity of the IR LEDs, access the camera's OSD menu with the CE-REMOTE by pressing 'SETUP'. Scroll down to the DAY&NIGHT option, press 'SETUP' to enter the sub-menu.



**ANTI SAT:** Increase or decrease the overall amount of IR LED saturation.

Refer to OSD Manual for detailed instructions on adjusting camera settings.

**LED LEVEL:** Increase or decrease the intensity/brightness of the IR LEDs. When set to 0 the IR LEDs are Off.

**D>N THRES:** Day to Night (Color to B&W) change level. The lower the number, the lower the lux level. To set the IR LEDs to turn on later in the evening (when darker), decrease the number.

**N>D THRES:** Night to Day (B&W to Color) change level. The lower the number, the lower the lux level. To set the camera to change back to color mode earlier in the morning, decrease the number.

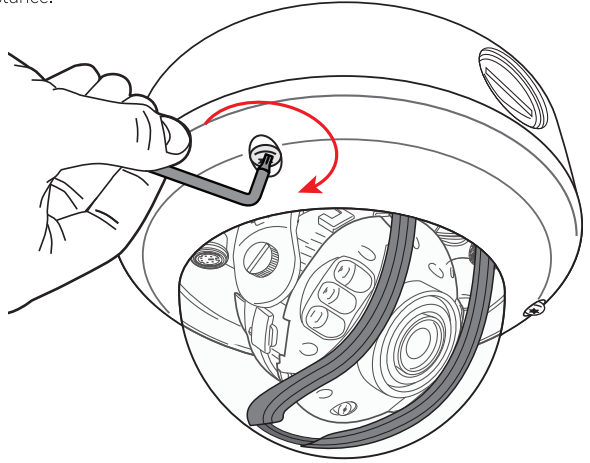
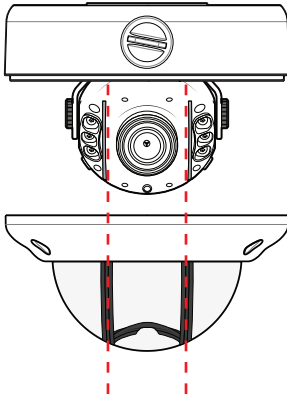
**DELAY:** Sets a delay time before the switch is made from day to night/night to day.

**NOTICE** The DAY&NIGHT setting should be set to EXTERN for normal switching of day/night modes. If set to AUTO intermittent changing of day/night modes can occur.

## 9. REASSEMBLE

Replace the dome cover onto the camera base. Align the IR Shield tracks with the guides on the camera assembly by turning the dome bubble. The cover must be loose, with no pressure applied, to turn the bubble. (it may be easier to turn the bubble with the cover removed).

Using the supplied Torx wrench, tighten the 3 Torx screws that hold the dome cover onto the base. Make sure each screw is tight to ensure superior weather resistance.



**⚠ ATTENTION** *If torx screws aren't fully tightened the weather resistant seal will be compromised, allowing water to leak into the camera.*

## 10. PERIODIC DOME CLEANING

Over time, dome cameras will collect dirt and dust on the outside of the polycarbonate dome bubble— often resulting in blurry/out of focus images. We recommend periodically cleaning the dome to ensure optimal day and night image quality.

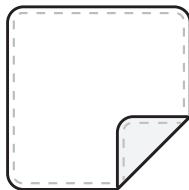
To clean the outside of the dome: first use compressed air to blow off any significant amounts of dirt/dust – then use warm, soapy water and a damp micro-fiber cloth towel to clean. Dry with a separate, clean micro-fiber cloth towel.

***Glass cleaner, Ammonia, alcohol and/or other solvents should never be used to clean the dome. These products contain harsh chemicals that can cause corrosion and reduce optical clarity. Paper towels, shop-rags, or other rough fabric should also never be used to dry the dome as they can scratch the dome.***

✔ SAFE TO USE



Warm Soapy Water

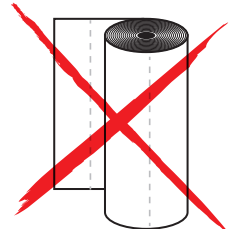


Micro-Fiber Cloth

✘ DO NOT USE



Glass Cleaner



Paper Towels

