CE-BZOQHD-WL Install Guide

Included Items:
- BZ Series Camera x 1
- Mounting Plate x 1
- Phillips Screws (M5x25) x 4
- Allen Bolts (M4x8) x 4
- Plastic Washers x 4
- Drywall Anchors x 4
- Foam Gasket x 1
- 3mm Allen Wrench x 1
- 5mm Allen Wrench x 1
- Instructions x 1

Required Items:
- Phillips Head Screwdriver or Drill with Phillips Head Bit
- CE-REMOTE (Zoom/Focus & OSD Control)
- DC12V or AC24V Power Supply

Optional Items:
- Analog Test Monitor
- 3/4" Spade Drill Bit

1. REMOVE FILM

Remove the protective film over the lens of the camera. An out-of-focus, discolored, and poor night-time image can result if this film is not removed.


Peel Off

REMOVE FILM
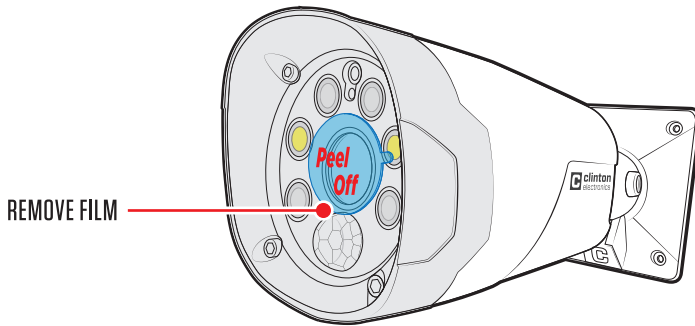
2. PREPARE MOUNTING SURFACE

Depending on the installation type; cable routed through the surface or cable routed on surface exterior– a hole may be required. If the cable will be routed through the surface, a 3/4" hole is required to fit the cable and connections through the surface.

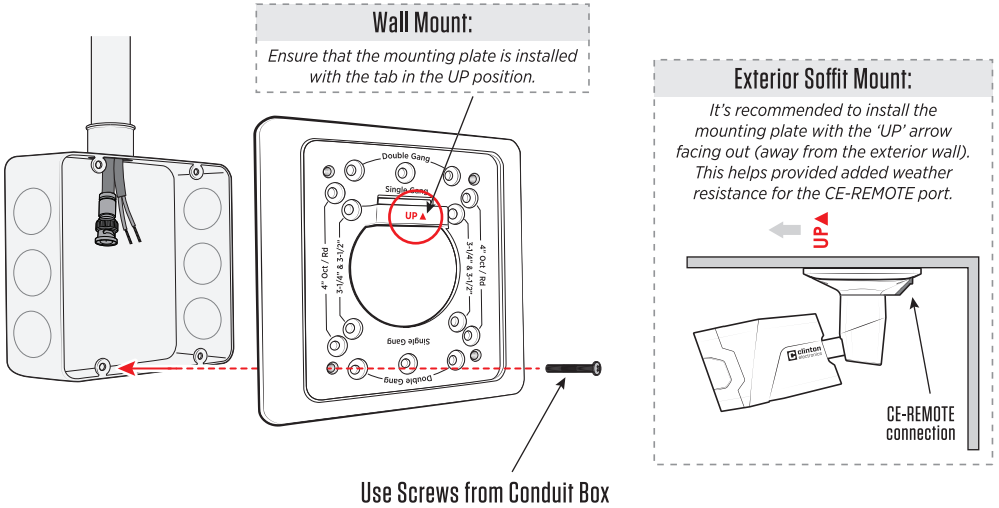**Cable Routed Through Surface** (Using Mounting Plate)

3/4" Hole Required

3/4"
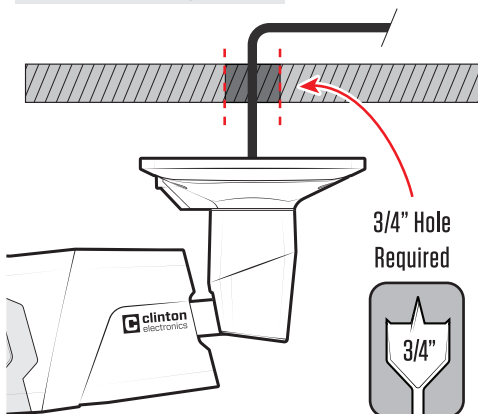
Cable Routed On Surface (NOT Using Mounting Plate)


Notch for Cable Exit
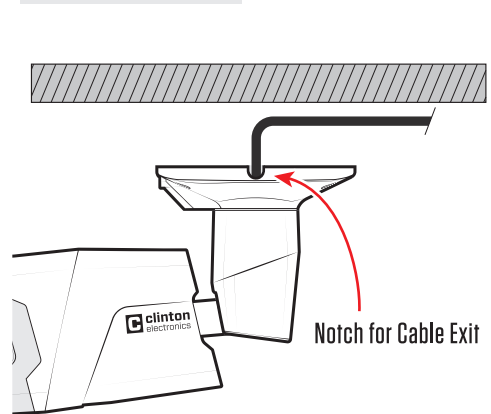
3A. INSTALL MOUNTING PLATE - (for conduit box install)

If installing the mounting plate on a conduit box, choose the appropriate hole pattern for that box. Use the screws provided with the conduit box for mounting. If installing the mounting plate on a surface such as wood, use the 4 included Phillips-head screws. When installing the mounting plate onto drywall use the 4 included drywall anchors in conjunction with the screws.

Wall Mount:

Ensure that the mounting plate is installed with the tab in the UP position.

Double Gang

Single Gang

UP ▲

4" Oct / Rd

3-1/4" & 3-1/2"

4" Oct / Rd

3-1/4" & 3-1/2"

Single Gang

Double Gang

Exterior Soffit Mount:

It's recommended to install the mounting plate with the 'UP' arrow facing out (away from the exterior wall). This helps provided added weather resistance for the CE-REMOTE port.

UP ▲

CE-REMOTE connection

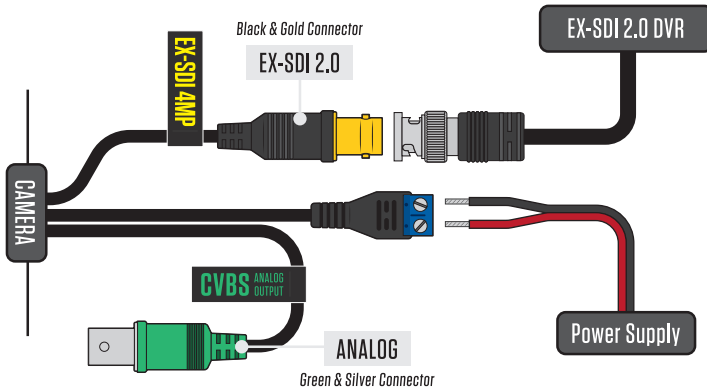Use Screws from Conduit Box

3B. INSTALL WITHOUT MOUNTING PLATE - (for cable side exit)

If installing the mounting plate on a surface such as wood, use the 4 included Phillips-head screws and plastic washers. When installing onto drywall use the 4 included drywall anchors in conjunction with the screws. *If installing the camera onto a metal structure or bracket (without mounting plate), it is recommended to use the included foam gasket to help prevent damage to the camera caused by power surges.*

Notch for Cable Exit

Foam Gasket - *ONLY if <u>NOT</u> using mounting plate

Use Plastic Washers w/ Screws

4 x
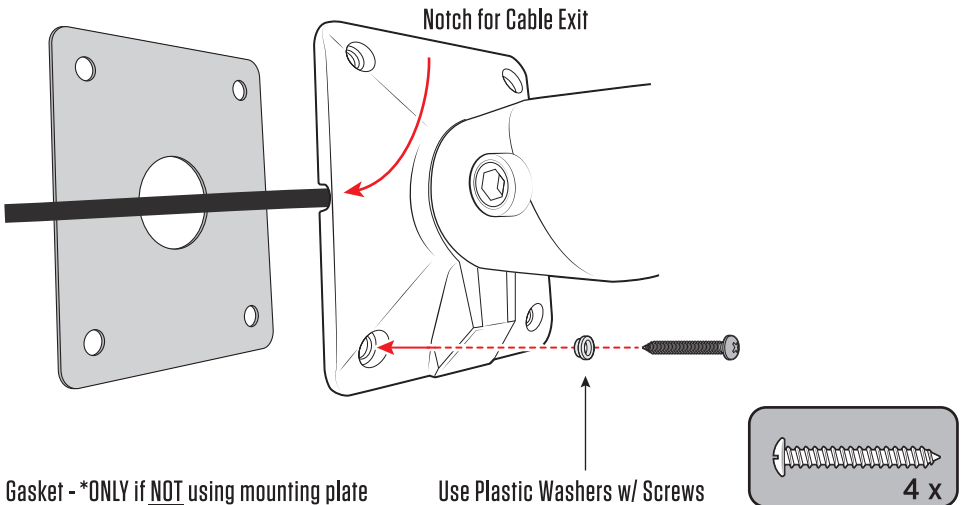
4. CONNECT CABLES

Make connections to the BNC cable and the power connection. Feed any cable slack into the mounting surface. To ensure quality operation, verify proper BNC and power termination, along with proper voltage at camera.

EX-SDI 4MP

CAMERA

Black & Gold Connector

EX-SDI 2.0

EX-SDI 2.0 DVR

CVBS ANALOG OUTPUT

ANALOG

Green & Silver Connector

Power Supply

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.

A Power LED Indicator (on the face of the camera) will illuminate RED for 1 second on initial power. If the RED light remains ON— either flashing RED or solid RED, check the voltage at the camera. If the RED light is OFF the camera has correct voltage.

LED INDICATOR
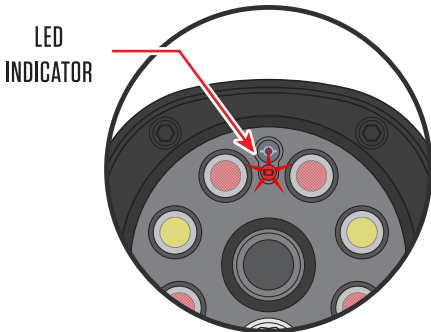
RVM - Rated Voltage Monitoring

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

ATTENTION

An under-powered camera (less than 12 Volts DC) might function initially, but it may stop working at night-time when the IR LEDs are activated (as this draws more power). Constantly under-powering a camera can cause the camera to malfunction. Check the specifications of the camera's power consumption to see if the power supply used will be enough to safely power the camera.

5. ATTACH CAMERA TO MOUNTING PLATE

Align the hook on the underside of the camera to the tab on the mounting plate. Slide the camera base onto the mounting plate.
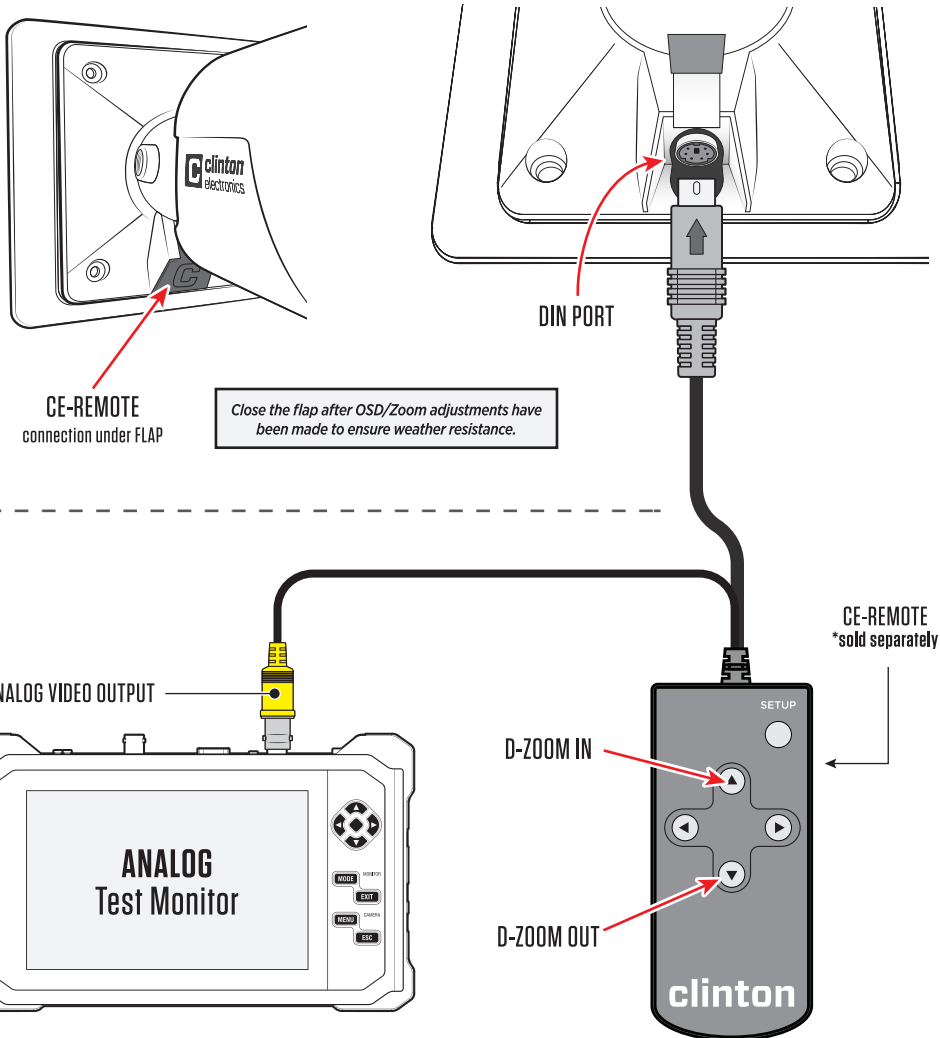
TAB

HOOK

Underside of camera base
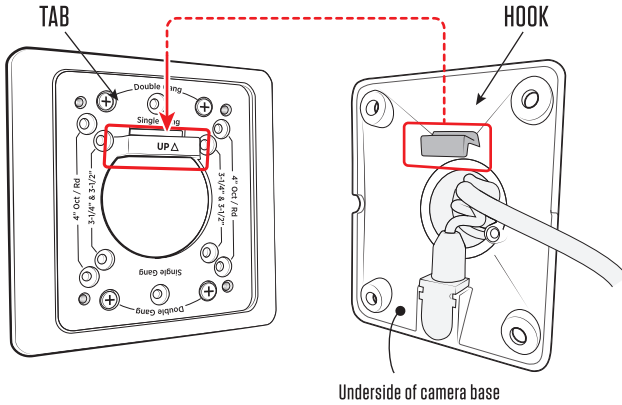
With the camera hooked onto the mounting plate, use the supplied 4 hex head bolts, plastic washers and 3mm Allen wrench to secure onto the mounting plate.

3mm Allen Wrench

Use Plastic Washers

4 x   4 x
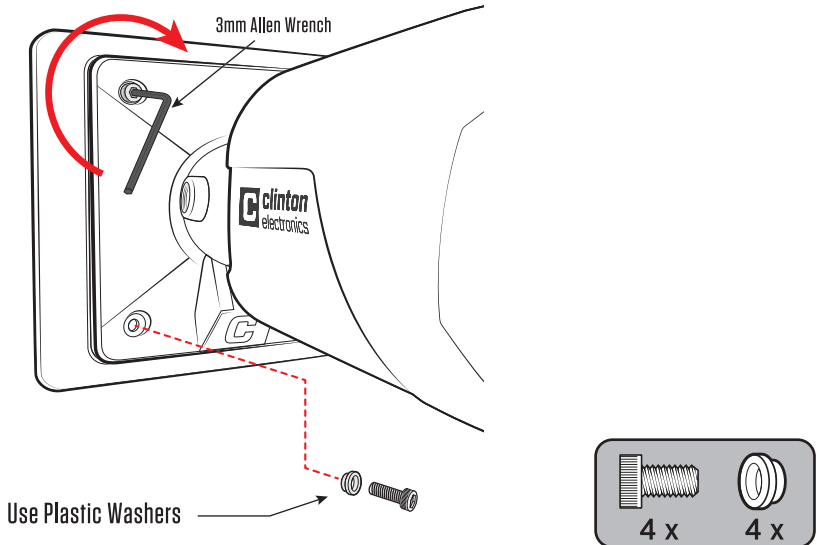
6. TEST MONITOR / OSD CONTROL

Before proceeding with final assembly, it is suggested to test the camera with a test monitor to verify proper camera angle/zoom and make any OSD adjustments. To test, lift the rubber flap on the camera base to access the DIN jack, then plug in a CE-REMOTE (sold separately). Connect an analog test monitor to the Yellow connector from the CE-REMOTE.

DIN PORT

CE-REMOTE
connection under FLAP

Close the flap after OSD/Zoom adjustments have been made to ensure weather resistance.

ANALOG VIDEO OUTPUT

ANALOG
Test Monitor

MODE MONITOR
EXIT
MENU CAMERA
ESC

CE-REMOTE
sold separately

SETUP

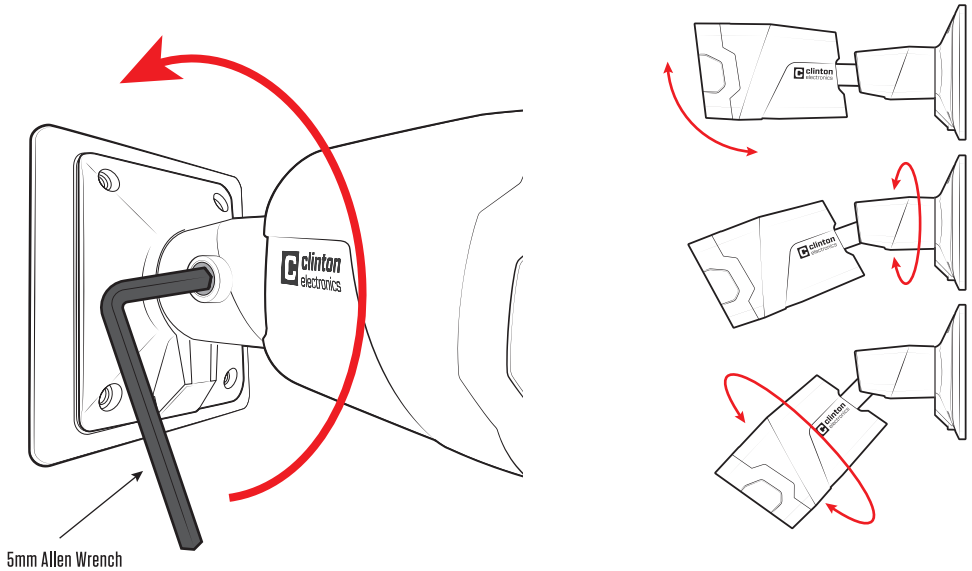**D-ZOOM IN**

D-ZOOM OUT

clinton

The image from the camera can be digitally zoomed in before entering the camera's OSD menu by pushing the 'UP' button on the CE-REMOTE (pressing 'DOWN' will zoom out the image). When the camera is set to 4MP the maximum zoom level is x14, and when the camera is set to 2MP the maximum zoom level is x8.

⚠ **NOTICE**   *The test monitor connection from the CE-REMOTE is an analog output. The analog output will be the same from these connections as the main Analog connector (green/silver). If the camera is set to an HD Analog option, ensure the test monitor will support that signal type.*

7. CAMERA ANGLE ADJUSTMENT

Loosen the hex-head bolt on the camera base with the included 5mm Allen wrench. Adjust the camera angle as needed. After the desired angle is achieved, tighten the hex-head bolt to hold the camera in that position.

5mm Allen Wrench

8. IR LED ADJUSTMENT

Using the CE-REMOTE press 'SETUP' to access the camera's OSD menu. Scroll down to the DAY&NIGHT option, click press 'SETUP' to enter the EXTERN sub-menu.

CLINTON EXHD 4MP WL	
1. EXPOSURE	↵
2. WHITE BAL	ATW
3. IMAGE ADJ	↵
4. BACKLIGHT	OFF
5. DAY&NIGHT	EXTERN ↵
6. DNR	MIDDLE
7. SPECIAL	↵
8. SERIAL	↵
9. SYSTEM	↵
10. EXIT	SAVE

5. DAY&NIGHT	
ANTI SAT	2
IR LED	10	← IR LEDs
WHITE LED	10
WHITE TIME	10 sec
WHITE FLASH	OFF
FLASH TIME	3
D>N THRES	8
N>D THRES	15
DELAY	LOW
RETURN	↵

ANTI-SAT: Depending on object distance from the camera, the IR LEDs may appear to be over-saturated. Adjust as necessary to compensate for an over-saturated image.

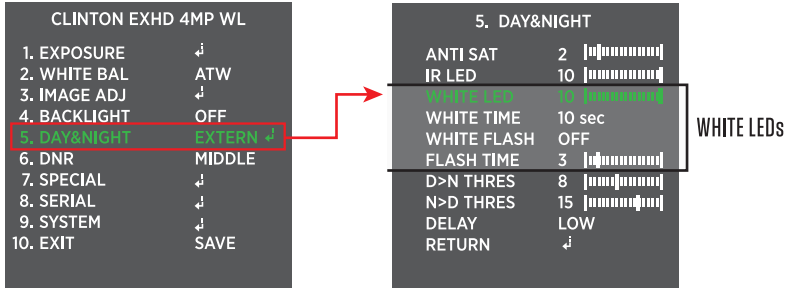**IR LED:** Increase or decrease the intensity/brightness of the IR LEDs. The higher the number, the brighter the IR LEDs. When set to 0 the IR LEDs are Off.

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

⚠ **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. WHITE LED ADJUSTMENT

Using the CE-REMOTE press 'SETUP' to access the camera's OSD menu. Scroll down to the DAY&NIGHT option, click press 'SETUP' to enter the EXTERN sub-menu.

CLINTON EXHD 4MP WL

1. EXPOSURE	↵
2. WHITE BAL	ATW
3. IMAGE ADJ	↵
4. BACKLIGHT	OFF
5. DAY&NIGHT	EXTERN ↵
6. DNR	MIDDLE
7. SPECIAL	↵
8. SERIAL	↵
9. SYSTEM	↵
10. EXIT	SAVE

5. DAY&NIGHT

ANTI SAT	2
IR LED	10
WHITE LED	10
WHITE TIME	10 sec
WHITE FLASH	OFF
FLASH TIME	3
D>N THRES	8
N>D THRES	15
DELAY	LOW
RETURN	↵

WHITE LEDs

WHITE LED: Increase or decrease the intensity/brightness of the WHITE LEDs. The higher the number, the brighter the WHITE LEDs. When set to 0 the WHITE LEDs are Off.

WHITE TIME: Adjust the amount of time that the White LEDs are On; 5, 10, 15, or 20 seconds.

WHITE FLASH: If desired the White LEDs can flash On/Off when triggered by motion. Set to Low, Middle, or High flash rate. Set to OFF to disable the flashing White LEDs.

FLASH TIME: Adjust the amount of time the White LEDs flash when enabled. These adjustments will have no affect if Flash is set to OFF. (1 ~ 10 sec)

---

10. PIR MOTION DETECTION INFO

The PIR sensor will most effectively detect objects up to 35~40 feet from the camera.

The PIR sensor has an approximate 120° horizontal field of view. The PIR sensor works best detecting motion that is moving across the F.O.V. (side-to-side) as opposed to moving directly towards the camera.

35~40ft

■ PIR F.O.V. (120º)
■ Camera F.O.V. (84º)

PIR Detection outside camera F.O.V.

BEST DETECTION
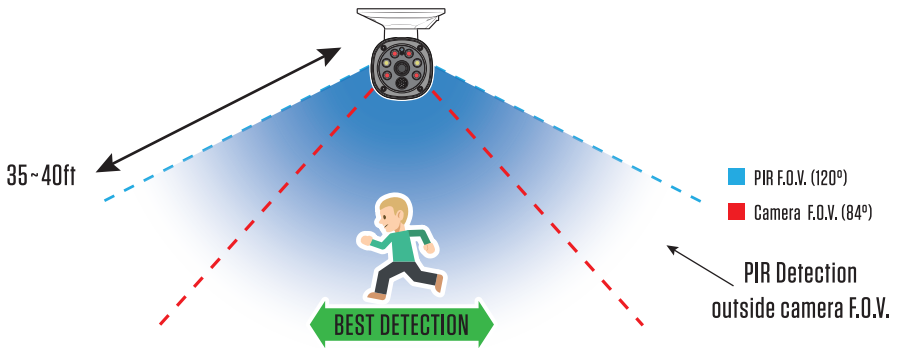
Depending on the scene and zoom level of the camera, the PIR sensor may detect objects outside of the viewable camera image.

EX-SDI

4MP MEGAPIXEL 2560 x 1440p Quad**HD**

4MP EX-SDI Compatibility

The EX-SDI 4 Megapixel camera image will only display on a **4MP EX-SDI DVR** or other EX-SDI 4MP device.

Use the **BLACK BNC connector for EX-SDI 4MP** Output (Green connector is analog).

EX-SDI 4MP   **EX-SDI 4MP**   **ANALOG**

EX-SDI will not work on HD Analog only DVRs & Devices
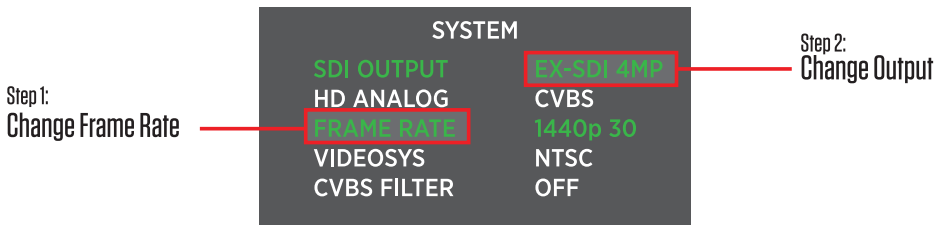
4MP Distance

The camera is defaulted to **EX-SDI 4MP**, which is capable of transmitting video up to **800'** over RG59 coax cable.

For greater distance change the SDI Output to a lower resolution (2MP).

SDI OUTPUT	DISTANCE	RESOLUTION
EX-SDI 4MP	800'	QHD - 1440p
EX-SDI 2.0	1,400'	FHD - 1080p
EX-SDI 1.0	800'	FHD - 1080p
HD-SDI	275'	FHD - 1080p

4MP SDI Output

To change the 4MP Output: Enter the OSD Menu of the camera, then access the SYSTEM Menu. Change the frame rate from **1440p 30** to **1080p 30**, then select the desired SDI Output (**EX-SDI 2.0**, **EX-SDI 1.0**, or **HD-SDI**).

SYSTEM

SDI OUTPUT	EX-SDI 4MP
HD ANALOG	CVBS
FRAME RATE	1440p 30
VIDEOSYS	NTSC
CVBS FILTER	OFF

Step 1:
Change Frame Rate

Step 2:
Change Output

If you need further help call Clinton Electronics Technical Support at 800-549-6393.

Information in this document is subject to change without notice   v.04.05.21