CE-BZ180QHD(B) Install Guide

Included Items:

- BZ Series Camera x 1
- Mounting Plate x 1
- Phillips-head Screws 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:

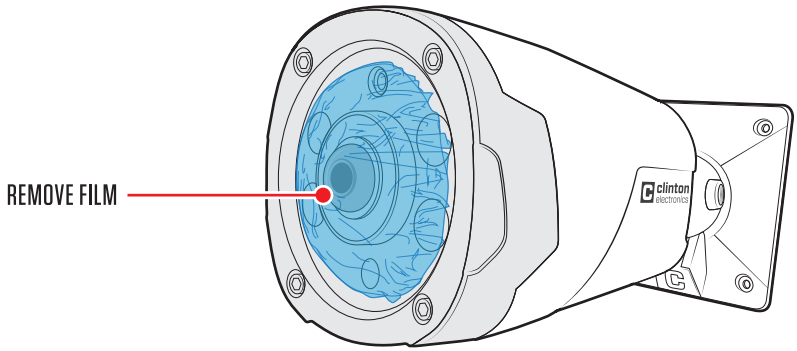
- Phillips Head Screwdriver or Drill with Phillips Head Bit
- CE-REMOTE (Zoom/Focus & OSD Control)
- DC12V or AC24V Power Supply

Optional Items:

- Analog Test Monitor
- 3/4" Spade Drill Bit

1. REMOVE FILM

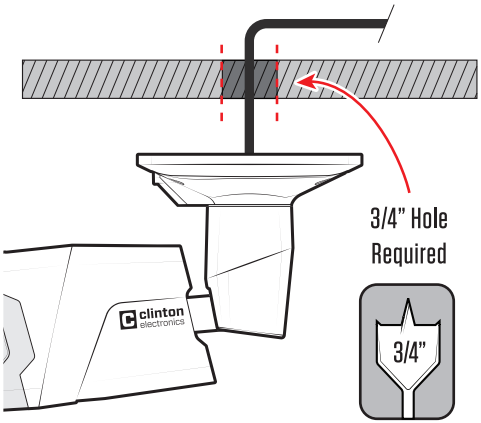
Remove the protective film from the lens of the camera. A blurry, discolored, and poor night-time image can result if this film is not removed. Do not touch the lens during installation, finger prints on the lens can cause the appearance of a blurry image. If desired, leave the protective film on until installation is complete.



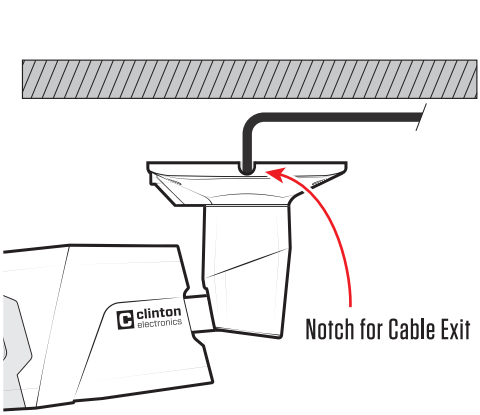
2. PREPARE MOUNTING SURFACE

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)

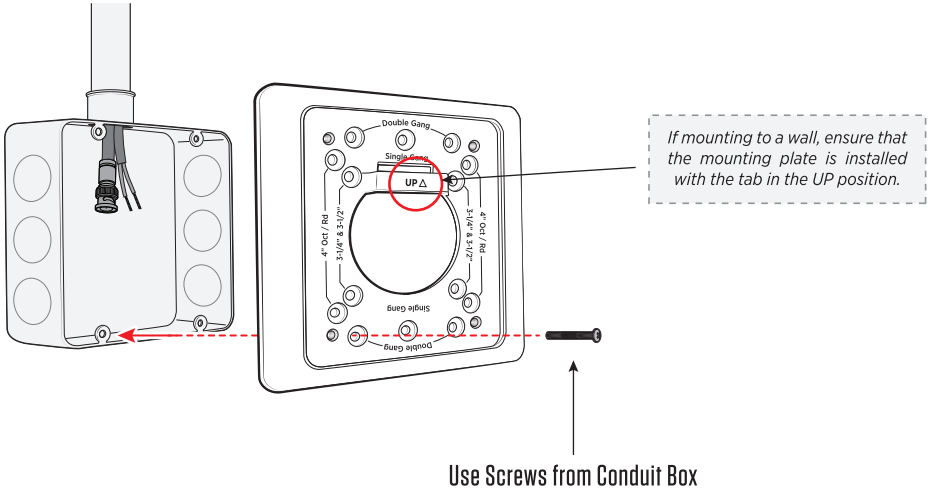


Cable Routed On Surface (NOT Using Mounting Plate)



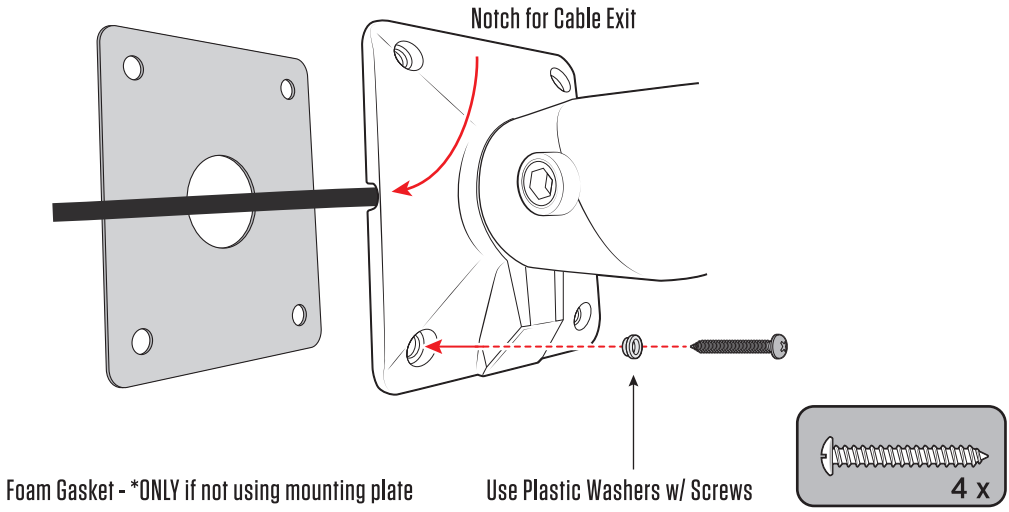
3A. INSTALL MOUNTING PLATE - (for conduit box install)

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.



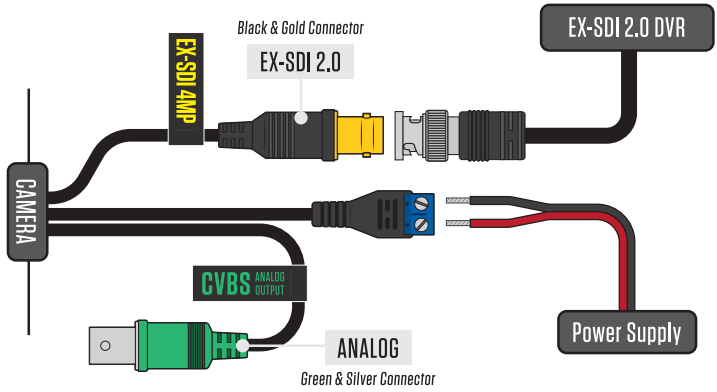
3B. INSTALL WITHOUT MOUNTING PLATE - (for cable side exit)

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 surface 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.***



4. CONNECT CABLES

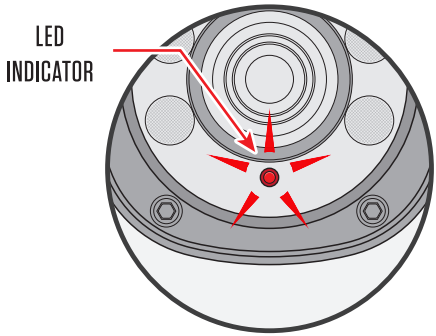
Make connections to the BNC cable and the power connection. Feed any cable slack into the mounting surface. To ensure quality operation, verify proper BNC and power termination, along with proper voltage at camera.



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 is ON, either flashing RED or solid RED, check the voltage at the camera. If the RED light is OFF the camera has correct voltage.



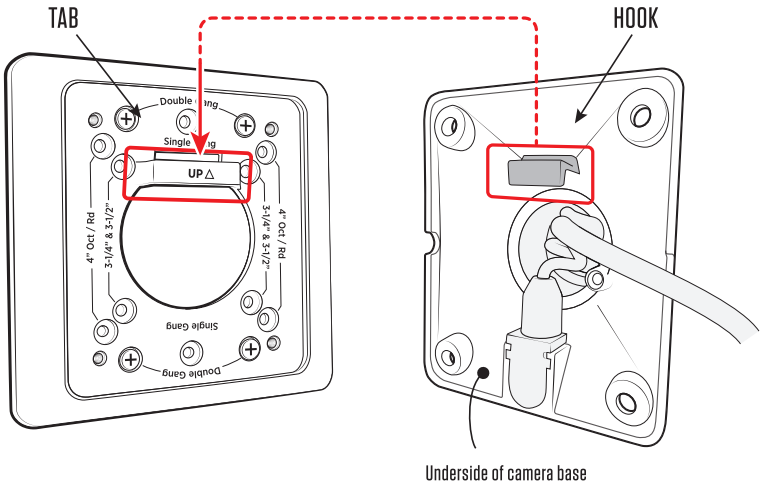
RVM - Rated Voltage Monitoring

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

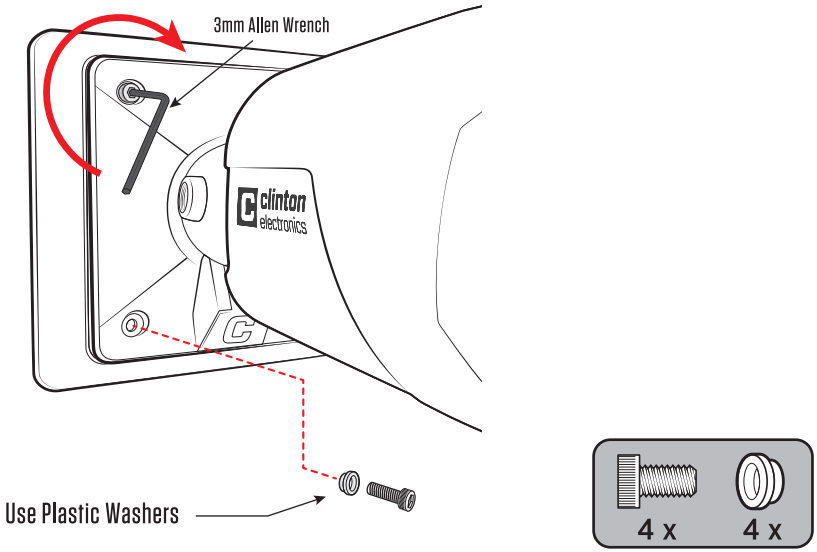
An under-powered camera (less than 12 Volts DC) might function initially, but it may stop working at night-time when the IR LEDs are activated (as this draws more power). Constantly under-powering a camera can cause the camera to malfunction.

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.

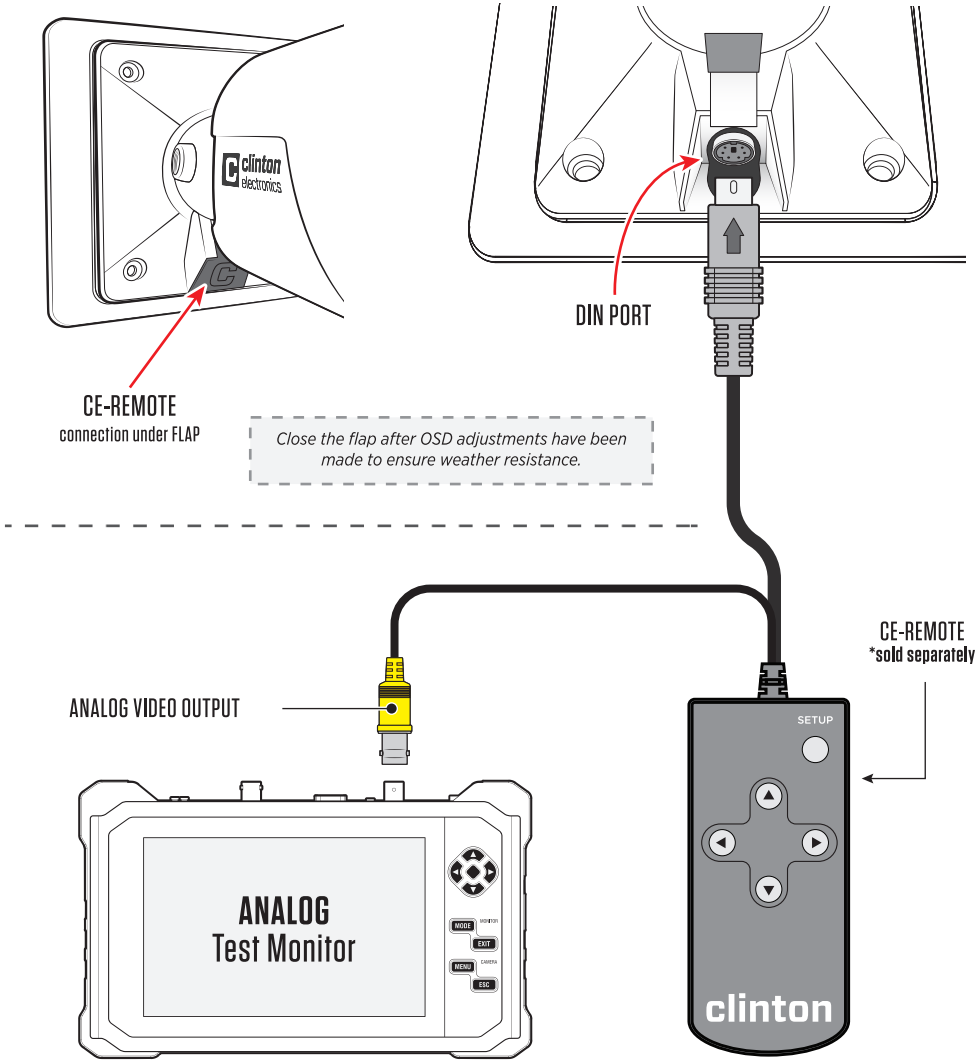


With the camera hooked onto the mounting plate, use the supplied 4 hex head bolts, plastic washers and 3mm Allen wrench to secure onto the mounting plate.



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. To test, lift the rubber flap on the camera base to access the DIN jack, then plug in a CE-REMOTE (sold separately) as indicated below. Connect an analog test monitor to the Yellow connector from the CE-REMOTE.

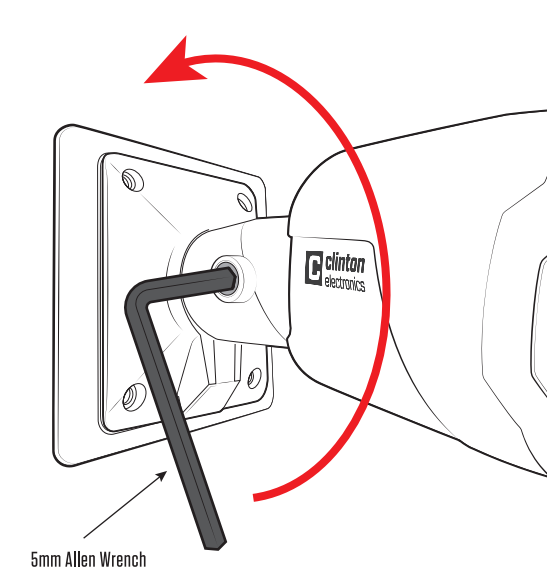


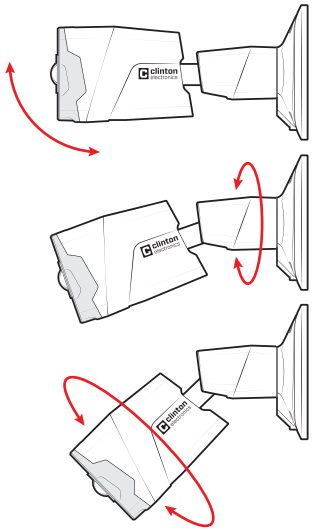
NOTICE

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. Certain OSD menu options are EX-SDI only and may not display video if connected to an analog monitor.

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.





8. PERIODIC CLEANING

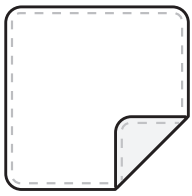
Over time— dirt, dust, and cobwebs may collect on the front face of the bullet camera. The result is often a blurry/out of focus image, especially at night. We recommend periodically checking and cleaning the camera to ensure optimal day and night image quality.

To clean the outside of the camera: 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 lens area. 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 camera as they can scratch the lens.

SAFE TO USE

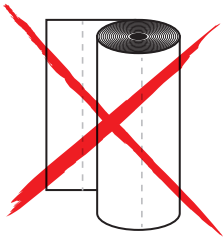
Warm Soapy Water



Micro-Fiber Cloth

DO NOT USE

Glass Cleaner

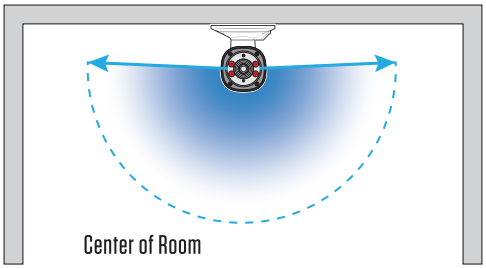


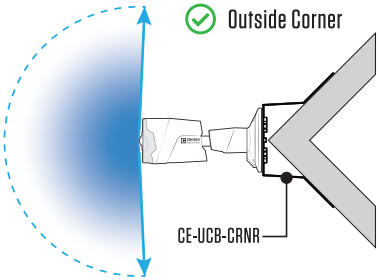
Paper Towels

180° Camera Best Practices

COMMON INSTALLATIONS

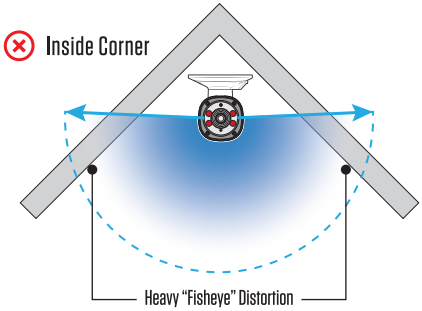
For an optimal unobstructed field-of-view, install the 180° camera in the center of a wall on or near the ceiling. Outside corners can also provide wide, open views. Use the CE-UCB-CRNR (sold separately) to mount the camera to an outer corner.





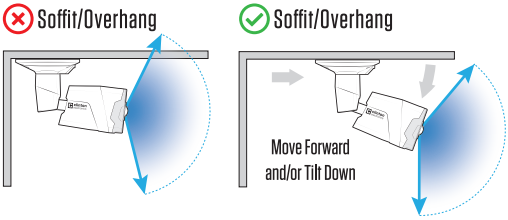
AVOID TIGHT, INSIDE CORNERS

When installing on an inside corner, it's best to move the camera away from the corner a few feet to avoid the corner walls from taking up the majority of the scene.



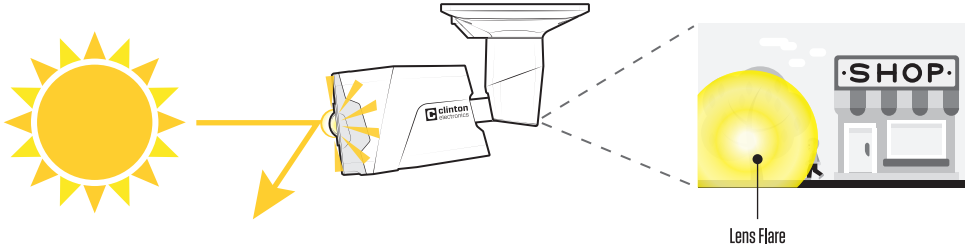
INSTALLING UNDER SOFFIT

When installing under a soffit, keep in mind the vertical field of view is greater than a standard camera. The camera may need to be moved forward and/or tilted down to achieve the desired view— without large areas of the image being occupied by the soffit.



AVOID DIRECT SUNLIGHT

The convex design of the 180° lens makes the camera prone to lens flares caused by direct sunlight. Lens flares can occur even if the lens does not directly point at the bright light source. The result is an over-exposed portion of the image. To reduce lens flare, angle the camera down and away from the bright light source or install it higher up to increase the downward angle.



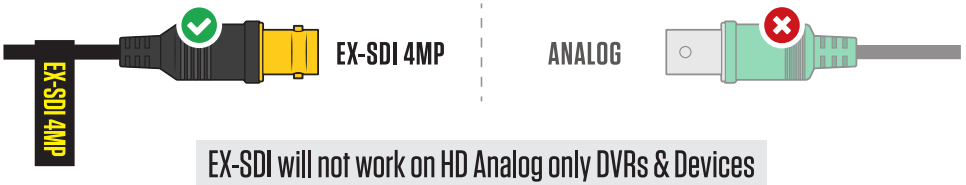
EX-SDI 4MP MEGAPIXEL 2560 x 1440p QuadHD

*This camera's default **SDI** video output is set to: **EX-SDI 4MP***

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 will not work on HD Analog only DVRs & Devices

4MP Distance

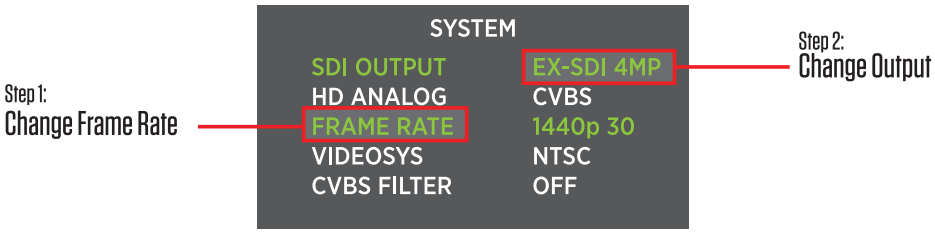
The camera is defaulted to **EX-SDI 4MP**, which is capable of transmitting video up to **800'** over RG59 coax cable.

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**).



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