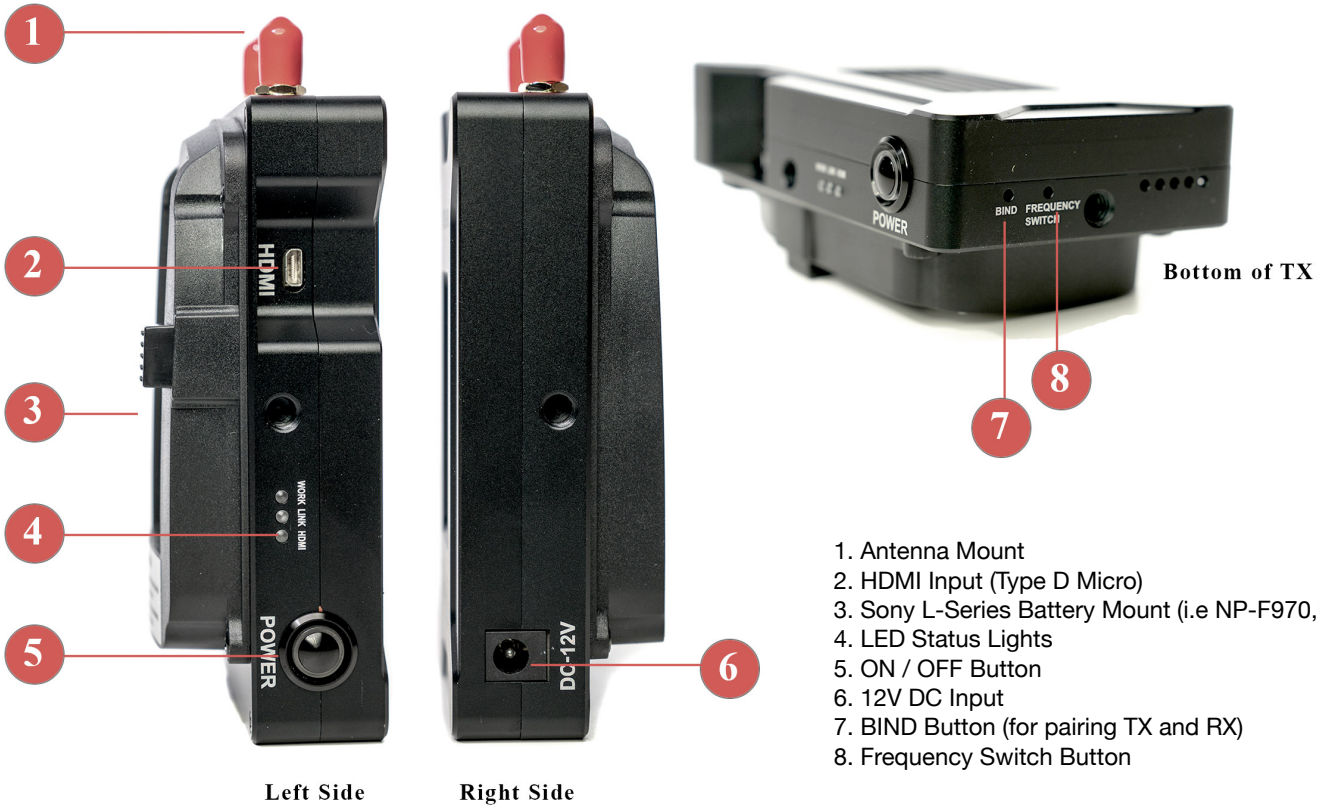


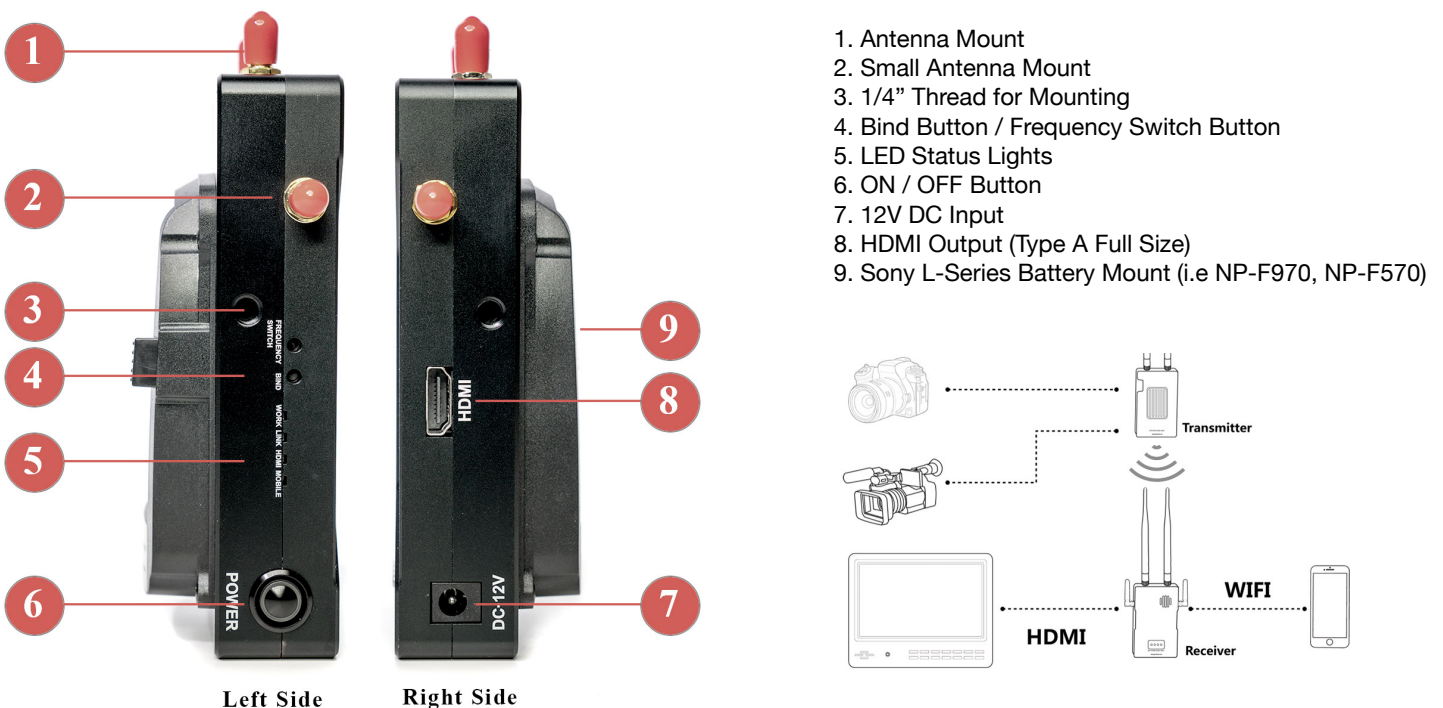
# CAME-TV

## CRYSTAL800 WIRELESS VIDEO SYSTEM

### TRANSMITTER:



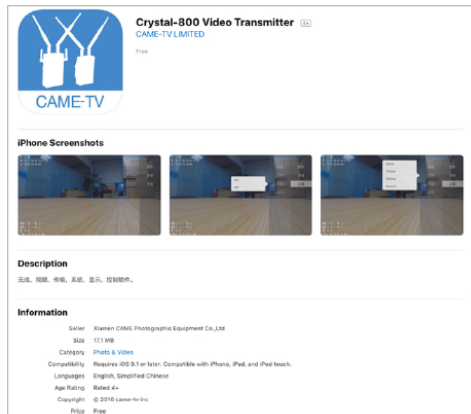
### RECEIVER:



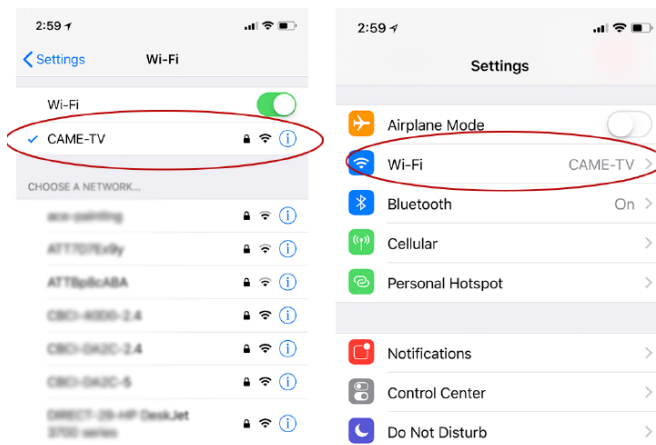
# CRYSTAL-800 W IRELESS IOS APP

Download & Install the CAME-TV Crystal application for iOS

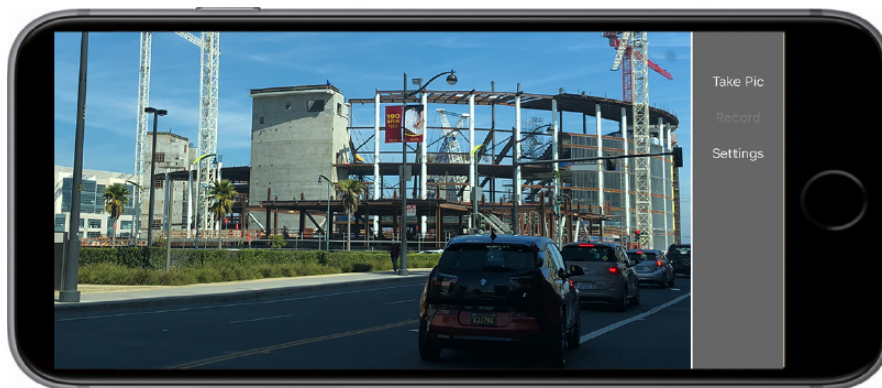
<https://itunes.apple.com/us/app/crystal-800-video-transmitter/id1355466675>



Connect HDMI Cable from the Crystal-800 Transmitter to Camera. Power on both the Transmitter and Receiver.



From iOS Device connect  
**Wifi network 'CAME-TV'**  
**Password: 12345688**



Launch CAME-TV  
Crystal-800 iOS APP and  
wait a few seconds.

| Function specification                                      |                                                                                   |
|-------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Communication distance (outdoor, no obstruction)            | 800mw transmission distance $\geq$ 800m                                           |
| Wall Penetration ability                                    | 3 cement walls; 1 ferroconcrete wall                                              |
| Output Power                                                | 25mw-800mw adjustable                                                             |
| Sensitivity                                                 | -95dbm $\pm$ 2dbm                                                                 |
| Frequency                                                   | 5G                                                                                |
| Physics specification                                       |                                                                                   |
| working temperature                                         | -10~60°C                                                                          |
| storage temperature                                         | -20~50°C                                                                          |
| dimension (including the shell, not including the antennas) | Transmitter: L.114mm x W. 70mm x H. 25mm<br>Receiver: L.127mm x W. 72mm x H. 28mm |
| Weight (including the shell, not including the antennas)    | Transmitter: 178g<br>Receiver: 233g                                               |
| Hardware function support                                   |                                                                                   |
| Transmitter working voltage                                 | DC-12V, 6V~16V, suggest the output power is more than 12W                         |
| Receiver working voltage                                    | DC-12V, 7V~16V, suggest the output power is more than 12W                         |

## Supported Video HDMI Input

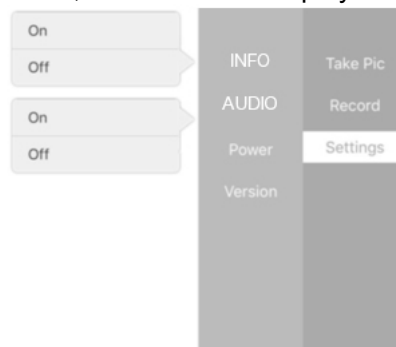
| Signal type | Video format | Resolution                                                                                                        | Remark                                                                                      |
|-------------|--------------|-------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| HDMI        | PAL, NTSC    | 1080p@60fps<br>1080p@50fps<br>1080p@25fps<br>1080i@60fps<br>1080i@50fps<br>720p@60fps<br>720p@50fps<br>720p@25fps | IF want to change the resolution, you have to restart both of the Transmitter and Receiver. |

## OSD (On Screen Display) Icons

- : Video signal intensity
- : Transmitter power voltage
- POWER: Transmitting power
- : Current frequency
- : Receiver power voltage
- : Current Picture Quality
- : Audio button state

## INFO setting

Click OSD button, select "Turn-on" or "Turn off", match to the "Display" or "Not display"



8.1.1

## Power setting

Click "setting" button to adjust the power, if click 100mw, then the video top right corner shows "PW: 100 OK", means output power setting is succeed.



# Bind and Frequency Switch

## Binding Transmitter and Receiver

Function explanation: To bind one Crystal-800 Transmitter to one Crystal-800 Receiver.

Process: Turn both RX and TX units on. Press BIND buttons on Transmitter and Receiver together at the same time and press for more than 5 seconds.

When the LED lights turn off, release the buttons. When the LED lights flash one by one, this means the device has started the bind progress. When all of the LED lights on both units are working, this means bind progress has finished. You may need to restart both the TX and RX units.

Attention: Bind progress should be performed on the Transmitter and Receiver at same time,. Please turn off all other devices during bind progress in order to avoid mismatch errors.

## Channel Frequency Switch

This feature is implemented either with the transmitter or receiver. Only one is needed. You do not need to implement Frequency Switch on both units at the same time.

Transmitter (or Receiver): Press the button more than 5 seconds. When all 3 Indicator Lights (HDMI, LINK, WORK) are turned off, release the Frequency Button. 3 lights will flash as 0.5Hz frequency, and then 4 lights turn back to normal state. This means the frequency channel change has completed.

Frequencies supported by CAME-TV Crystal-800:

|             |             |             |             |             |             |             |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>5180</b> | <b>5220</b> | <b>5260</b> | <b>5320</b> | <b>5520</b> | <b>5540</b> | <b>5560</b> |
| <b>5580</b> | <b>5600</b> | <b>5620</b> | <b>5640</b> | <b>5660</b> | <b>5680</b> | <b>5700</b> |

# **Troubleshooting**

## **No Video Display on Remote HDMI Monitor**

Restart both the Transmitter and Receiver. This is required if resolution has changed on your camera.

Check for power on both Transmitter and Receiver. LED Indicator lights should be working.

Make sure batteries have enough power. Low voltage may not allow the Crystal-800 to work correctly.

Check connection from Transmitter HDMI to Camera and HDMI output cable from Receiver to Monitor.

Check to make sure HDMI Cables are not damaged by testing with other equipment.

Check Monitor and select the correct HDMI Source input. Some monitors have multiple input sources, ensure you have selected the correct source with your Monitor.

Some cameras can output 4K through HDMI, and the Crystal-800 cannot support 4K input. Check your camera's HDMI output settings, and select only supported 1080 HDMI output resolutions and frame rates.

Try to restart your Camera and Monitor.

If you believe you have exhausted basic checks, you can attempt to re-sync the transmitter and receiver. Follow the instructions to reset and BIND the Transmitter and Receiver.

## **Poor Video Display or Excessive Latency**

Check for obstructions (i.e. walls or buildings), or use closer distance between Transmitter and Receiver.

Increase Power Setting by clicking Power button on Receiver. (Can also be done through the iOS App).

If you believe problems could be related to Interference, try changing to a different Channel Frequency. Follow directions for changing Frequency in User Manual.

## **iOS APP Not Displaying Video**

Restart the Crystal-800 TX and RX.

Make sure you are using the latest version of the Crystal-800 iOS Application from the App Store.

Check to make sure you are connected to the CAME-TV Wifi Network. Default password is 12345688

Completely exit and Relaunch the Application.

Try Restarting the Smart Phone or Tablet.

Make sure only one device is connected to the Wifi. Disable other devices that are using the Crystal-800 app at the same time.

If you have any problems, please contact us through our website <http://www.CAME-TV.com>