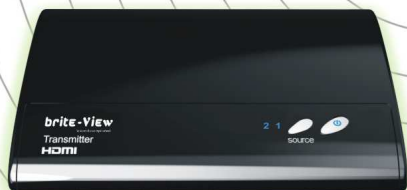


Air SyncHD

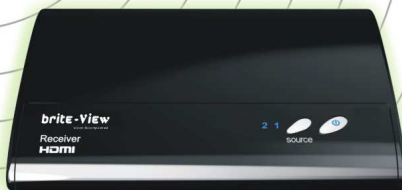
1080p Video/Audio Wireless Transmission Kit

BV-2322



BV-2322T

1080p Video/Audio Wireless Transmitter



BV-2322R

1080p Video/Audio Wireless Receiver

Air bridge your AV devices and
TV in uncompressed 1080p HD quality.

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1. Important Information

Please take the time to read this user manual before using the BV-2322T and BV-2322R. It contains important information about operating your Full HD video wireless kit.

This limited warranty applies when the product is handled properly for intended use, in accordance with its operating instruction. However, the warranty may be void in the following cases:

- Repair, product modification or alteration have been performed by unauthorized service personnel
- Damages caused by accidents, including but not limited to, lightning, water, fire, or moisture
- Use of an AC adapter not compatible with the product and its voltage rating
- The model number on the product has been altered, deleted, removed or made illegible.

Safety Precautions

	WARNING! RISK OF ELECTRICAL SHOCK DO NOT OPEN	
WARNING: TO REDUCE THE RISK OF ELECTRICAL SHOCK DO NOT REMOVE THE COVER NO USER-SERVICEABLE PARTS ARE INSIDE REFER SERVICING TO QUALIFIED PERSONNEL		



Danger: Be careful with electricity.

- Power to the units must be switched off before any work is undertaken, such as any AV device connection or TV connection.
- **Power outlet:** To prevent electric shock,

make sure to use the appropriate AC adapters as power supply to the transmitter and the receiver.

- **Power cord:** Be sure the power cord is routed so that it will not be stepped on or pinched by heavy items.
- **Power overloading:** Avoid overloading electrical outlets or extension cords which otherwise could result in electric shock or fire.
- **Lightning:** Disconnect the product from the power source if it is left unattended for a long period of time, and to protect the product from lightning.
- Always disconnect the power cord from the power outlet when you are not using your Full HD Video wireless kit. This reduces the risk of electric shocks or fire.



Warning

- This product should not be exposed to dripping or splashing. No object filled with liquids, such as vases, should be placed on the product.
- **Object Entry:** To avoid electric shock, never stick anything in the slots on the case or remove the cover.
- Place receiver/transmitter on a flat, hard and stable surface
- **Ventilation:** Do not block the ventilation slots on the receiver/transmitter or place any heavy object on the top cover. Blocking the air flow could damage the receiver. Arrange components so that air can flow freely around the receiver. Ensure that there is adequate ventilation if the receiver is placed in a stand. Put the receiver/transmitter in a property ventilated area, away from direct sunlight or any source of heat.
- **Water Exposure:** To reduce the risk of fire or electric shock, do not expose the receiver/transmitter to rain or moisture.

DECLARATION OF CONFORMITY

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

EMI (Electro Magnetic Interference) tested.

EN 55022 Information technology equipment----

Radio disturbance characteristics--- Limits and methods of measurement

EN 61000-3-2 Electromagnetic compatibility (EMC)---

Part 3-2:Limits---Limits for harmonic current emissions(equipment input current up to and including 16 A per phase)

EN 61000-3-3 Electromagnetic compatibility (EMC)---

Part 3:Limits---Section 3: Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection

EN 55024 Information technology equipment----

Equipment---Immunity characteristics---Limits and methods of measurement

EN 301 489-1

Electromagnetic compatibility and Radio spectrum Matters (ERM); Electro Magnetic Compatibility (EMC) standard for radio equipment and services;

Part 1: Common technical requirements

EN 301 489-17

Electromagnetic compatibility and Radio spectrum Matters (ERM); Electro magnetic Compatibility(EMC) standard for radio equipment;

Part 17: Specific conditions for 2,4 GHz wideband transmission systems, 5GHz high performance RLAN equipment and 5,8 GHz Broadband Transmitting Systems

EN 60065 Audio › video and similar electronic apparatus—Safety requirements

TRADEMARK INFORMATION

- HDMI, the HDMI Logo and High-Definition Multimedia Interface are trademarks of HDMI Licensing LLC.

Special Notice

- Never use this product nearby an aircraft or medical facility. It can cause interference or undesirable effect on the operation result.
- Use of this product in the following locations may result in abnormal video and audio output (noise, blocked image... etc,).
 - Product installed in the walls made of concrete.
 - Product situated near the refrigerator or metal fitment.
 - A cluttered room where the wireless signals may be blocked
- This product has been tested and manufactured to comply with each country's safety rules. However, there is no guarantee that interference will not occur in some installation scenario. If the interference happens, increase the distance between the transmitter and receiver.
- BV-2322 may interfere 5GHz wireless devices, such as routers or other wireless devices. Therefore, if you have an 802.11n router, configure it to the 2.4 GHz band rather than the 5GHz band.
- Optimal range between BV-2322 transmitter and receiver is between 2 and 20 meters within line of sight.



CAUTION: Using of RF Modules in the U.S.

- Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.
- This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provide with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.
- Outdoor operations in the 5150 ~ 5250MHz, 5600~5650MHz band are prohibited.
- This device has no Ad-hoc capability for 5250~5350MHz and 5470~5725MHz.
- Outdoor operations in the 5470~5725MHz band are prohibited. This device could not be used in the 5600~5650MHz.
- The Device does not operate in 5600~5650MHz.
- Industry Canada regulatory information Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.
- The user is cautioned that this device should be used only as specified within this manual to meet RF exposure requirements. Use of this device in a manner inconsistent with this manual could lead to excessive RF exposure conditions.
- The following regulatory and Safety notices must be published in documentation supplied to the end user of the product or system incorporating an adapter in compliance with local regulations, Host system must be labeled with "Contains FCC ID: XXX-XXXXX", FCC ID displayed on label.
-

System Warning

FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT

This equipment 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 energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



CAUTION: Using This System in the United States

- Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.
- This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provide with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.
- Outdoor operations in the 5150~5250MHz, 5600~5650MHz band are prohibited.
- This device has no Ad-hoc capability for 5250~5350MHz and 5470~5725MHz.
- Outdoor operations in the 5470~5725MHz band are prohibited. This device could not be used in the 5600~5650MHz.
- The device does not operate in 5600~5650MHz.



CAUTION: Using This System in Canada

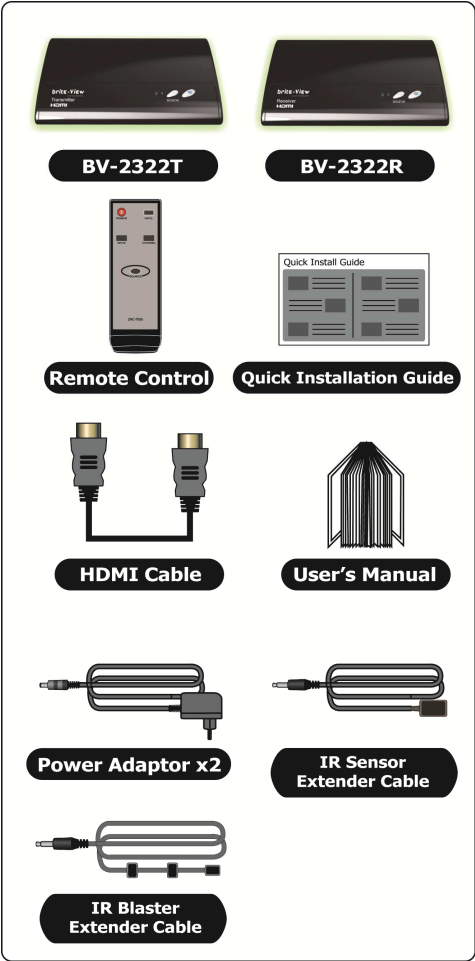
- Industry Canada regulatory information Operation is subject to the following two conditions:
 1. This device may not cause interference,
 2. This device must accept any interference, including interference that may cause undesired operation of the device.
- The user is cautioned that this device should be used only as specified within this manual to meet RF exposure requirements. Use of this device in a manner inconsistent with this manual could lead to excessive RF exposure conditions.

2. Introduction

BV-2322T and BV-2322R wireless HD audio/video transmission solution allows users to place their HDTV set or projector where you want, free of the constraint of cables. Just connect your HDTV to the BV-2322R (receiver) with an HDMI cable, and connect your AV equipment (Blu-ray players, HD set-up boxes, game consoles or HD media players and streamers) to the BV-2322T (transmitter) Besides HDTVs, any display with an HDMI input, such as LCD and plasma monitors, are compatible with the BV-2322R. This setup unclutters your media and allows the AV equipment to be hidden in the cabinet behind your seating area. This solution delivers uncompressed 1080p full HD video and audio content to your existing HDTV set wirelessly. It operates the transmission in 4.9 GHz~ 5.9 GHz frequencies and it can adjust its communication frequency automatically in case of interference from another RF system. With built-in Omni-directional antennas, it can transmit uncompressed video content to 20 meters (66 feet) LOS (Line of sight) with no latency. Both IR Sensor Extender Cable and IR Blaster Extender Cable are included in the package so users can point their remote control of the AV source at the BV-2322R directly for device operation.

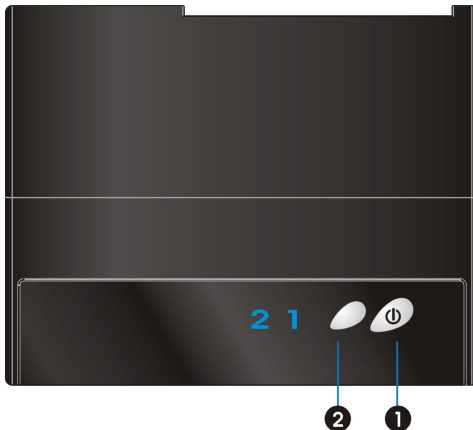
2.1 Packing Content

Please check whether the following items are present in the package. If any items missed or damaged, please call your dealer.



2.2 Overview

A. BV-2322T: Full HD Transmitter



■ Front Panel Buttons and LEDs

❶ Power Button with LED Indicator

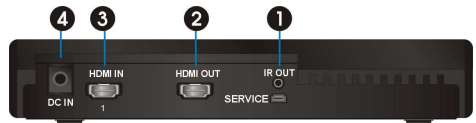
Press to turn the transmitter on and off. The indicator in the power button is lit solid blue when the power is on, and turns red in standby mode.

❷ Source Selection Button

Press this button to change the frequency of IR blaster among 38 KHz, 47 KHz and 58KHz. Default frequency is 47KHz. See the OSD description on TV screen for operation after connecting the BV-2322R to the TV via HDMI out.

Note1:

The BV-2322T transmitter can be connected to one audio/video device running on HDMI cable and transmit the A/V signals to the 2nd HDTV, plus looping through the signals to the 1st HDTV set connected to the BV-2322T via the HDMI OUT port at the same time.



■ Main Unit Back Panel

❶ IR Blaster Extender Jack

Plug the IR Blaster Extender Cable into the IR OUT jack at rear panel of the transmitter. Attach the IR blaster to the device connected to the BV-2322T. You can point your AV equipment's existing remote control at the BV-2322R receiver (usually close to your TV) to control connected device.

❷ HDMI OUT

To use the "loop-through" feature, you can place your 1st HDTV set close to the AV equipment, and connect the BV-2322T (transmitter) to that HDTV set via HDMI out, and the AV equipment via HDMI in. Then, you can enjoy the same digital content on your 2nd HDTV set connected to the BV-2322R (receiver), possibly in another room.

❸ HDMI IN

Connect Transmitter to High-definition audio/video devices that have an HDMI port using a provided HDMI cable.

❹ DC IN

For connecting the BV-2322T power adapter.

Note2:

With the loop-through connection, the same video/TV show can be displayed on either the 1st HDTV also connected to the BV-2322T, or on a 2nd HDTV possibly in a different room, once the transmitter is paired successfully with receiver connected to the 2nd HDTV set.

B. BV-2322R: Full HD Receiver



■ Front Panel Buttons and LEDs

❶ Power Button with LED indicator

Press to turn the receiver on and off. The indicator in the power button lights up in blue when the power is on, and turns red in standby mode.

❷ Source Selection Button

Press this button to change the frequency of IR blaster.

Note:

Make sure you have connected the BV-2322R correctly to your HDTV set with an HDMI cable, and have selected the correct HDMI input on your TV.

If you have more than one pair of BV-2322, each transmitter and receiver should be at least 6.5 feet away from one another.

If both the transmitter and the receiver exist in the same room, the suggested the minimum distance between the two is 6.5 feet.



■ Main Unit Back Panel

❶ IR Sensor Extender Jack

Plug the IR Sensor Extender cable into the IR IN jack at the rear panel of the receiver. Generally, sensors with cable are placed near your HDTV set so that you can easily operate and control your AV equipment connected to BV-2322T by pointing the remote control to the TV instead of the AV equipment.

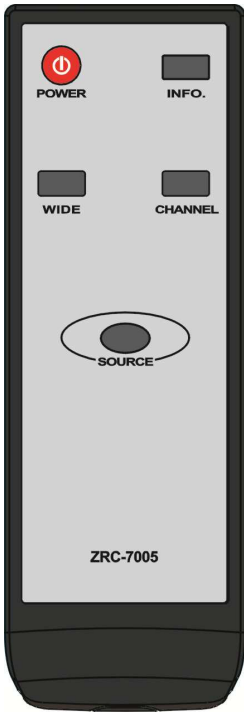
❷ HDMI OUT

For connecting the HDTV set via an HDMI cable.

❸ DC IN

For connecting the BV-2322R power adapter.

C. Remote Controller Unit (RCU) Instruction



Button	Function Description	Operation
POWER	Press to turn the BV-2322 Transmitter/Receiver on/off.	Press it when pointing at the BV-2322R to enter the "Standby Mode" with the loop-through connection is already on; press it when pointing at the BV-2322T to enter the "Standby Mode" with the loop-through connection is off.
INFO.	Press to display between "Channel", "Source", "Resolution", "WIDE mode" and 'Signal Quality'	Press once to display the current status. Press again to exit OSD.
SOURCE	Press this button to change the frequency of IR blaster among 38KHz, 47Kz and 58KHz. Default frequency is 47KHz .	Press once to display the current frequency of IR blaster. Press again to change to next frequency, and the frequency will be displayed on the OSD.
CHANN EL	Press this button to change between wireless channels manually if the user experiences video noise.	Press once to display the current "Channel" status. Press again within 5 seconds to switch to another channel, and the channel number will be displayed on the OSD.
WIDE	Enable the "WIDE" mode to boost transmission distance; up to 100 feet (1080i content only)	Press this button to enable and disable Wide mode. Press again within 5 seconds to enable WIDE mode, and the status will be displayed on OSD.

Note :

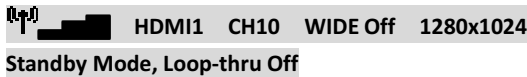
1. Press Power key pointed at the transmitter when system on active mode, transmitter will enter Listen mode (RF disconnected) and Loop-through display keeps on.
2. Press Power key Point at the receiver when system on active mode, both transmitter and receiver will enter Standby mode (RF disconnected) and Loop-through display off.
3. The "Standby" mode uses consumes 90% less of the power. User has to press both power key on transmitter and receiver to resume active mode.

D. On Screen Display (OSD) vs. RCU Instruction

❶ POWER Button

- (1) Press the POWER button on the RCU pointed at the Transmitter or presses the POWER button on top of the Transmitter to enter “Standby mode” from “Active mode”.

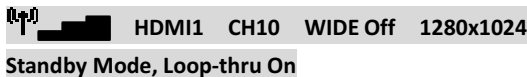
OSD Displayed:



HDMI1 CH10 WIDE Off 1280x1024
Standby Mode, Loop-thru Off

- (2) Press the POWER button on the RCU pointed at the Receiver or presses the POWER button on top of the Receiver to enter “Standby mode” from “active mode”.

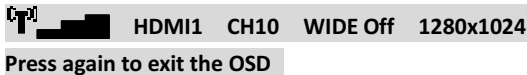
OSD Displayed:



HDMI1 CH10 WIDE Off 1280x1024
Standby Mode, Loop-thru On

❷ Press the INFO button on the RCU, and Signal Quality, Source, Channel, WIDE mode status and resolution will be displayed for user's reference.

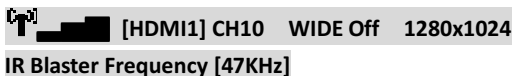
OSD Displayed :



HDMI1 CH10 WIDE Off 1280x1024
Press again to exit the OSD

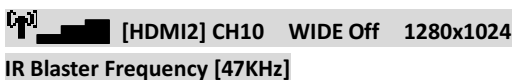
❸ Press the SOURCE button on the RCU or on the top of transmitter (or receiver) for IR blaster frequency selection.

Press “SOURCE” button once for current IR blaster frequency displayed on the OSD:



[HDMI1] CH10 WIDE Off 1280x1024
IR Blaster Frequency [47KHz]


Press “SOURCE” button again within 5seconds to change IR blaster frequency.




[HDMI2] CH10 WIDE Off 1280x1024
IR Blaster Frequency [47KHz]

④ Press the CHANNEL button on the RCU to manually switch between wireless channels if the user experiences video noise.

Press “CHANNEL” button once for current Channel status displayed on the OSD:



Press again to change Channel

Press the “CHANNEL” button again within 5 seconds to change Channels manually.



Press again to change Channel

⑤ Press the WIDE button of RCU for longer distance transmission of audio/video contents. (1080i content only)

(1) Press once for current WIDE mode status displayed on the OSD (Default is disable) :


Press again to switch WIDE mode

(2) Press WIDE button again within 5seconds to switch to WIDE mode status, OSD displayed as such :


Press again to switch WIDE mode

NOTE : Only the status of the BV-2322R (receiver) connected to the HDTV can be displayed on the OSD. The status of the BV-2322T (transmitter) HDMI out can not be displayed.

3. Installation

Step1: Setup the BV-2322T Transmitter with the A/V Source and the 1st HDTV

Connect One High-Definition Audio/Video Source and an HDTV to the BV-2322T:



- (1) Connect the BV-2322T's (transmitter) "HDMI IN" to the High-Definition AV sources' "HDMI OUT" with an HDMI cable (included). The BV-2322T has a HDMI inputs for the latest High-Definition device, like the PS3 and Blu-ray player.
- (2) Connect the BV-2322T's (transmitter) "HDMI OUT" to the HDTV set's "HDMI IN" port with an HDMI cable for the loop-through connection.
- (3) Connect the supplied power adapter to the DC IN jack of the BV-2322T and a wall socket. The LED indicator in the POWER button lights up in solid purple when the BV-2322T is connected to the power mains.

Step2: Setup the BV-2322R receiver with the 2nd HDTV

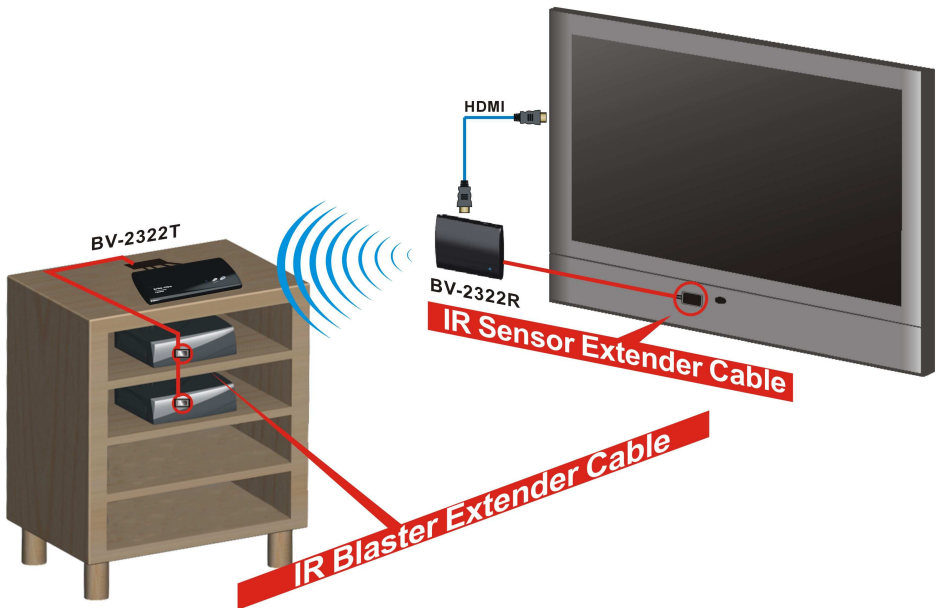
HDTV set Connection with BV-2322R:



- (1) Connect the HDMI cable to the HDMI OUT jack of the BV-2322R and to your HDTV set (or an HD projector). Press the **SOURCE / INPUT** button of your TV's remote to select the appropriate **"HDMI"** video input.
- (2) Connect the supplied power adapter to the DC IN jack of the BV-2322R and a wall socket. The LED indicator in the POWER button lights up in solid blue when the BV-2322R is connected to the power mains.

Step3: Setup the IR Blaster Extender Cable and IR Sensor Extender Cable

If necessary, connect the Infrared (IR) blaster (or sensor) Extender cable. Users can point hand-held remote control of your high-definition AV equipment at the BV-2322R or the HDTV set to operate the source devices, not exceeding the distance of 66 feet at Line-of-sight.



- (1) Plug the IR blaster cable into the IR OUT jack of the BV-2322T. Place the IR blaster head near the IR sensor of your high-definition audio/video devices nearby. The infrared (IR) sensor should be close to the front panel of your high-definition device, usually behind a dark and sometimes reddish plastic window. When the IR blaster cable is connected, it relays infrared command from your remote control at the device. Users can control their AV devices by pointing their remote control at the TV instead of at their AV equipment.

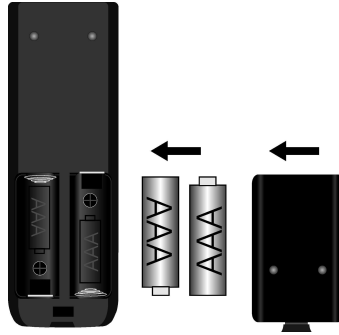
- (2) If your connected device will be out of the direct line of sight of your remote controls, plug the IR Sensor Extender cable into the IR IN jack at the rear panel of the BV-2322R (receiver).

Note:

- (1) The IR sensor supports 36 KHz ~ 56 KHz (NEC, RC5, RC6) remote's signal protocol. Therefore, it is possible that some devices may not be supported.
- (2) The IR blaster supports 47KHz remote' signal protocol.

Step 4: Boot up the BV-2322T and BV-2322R

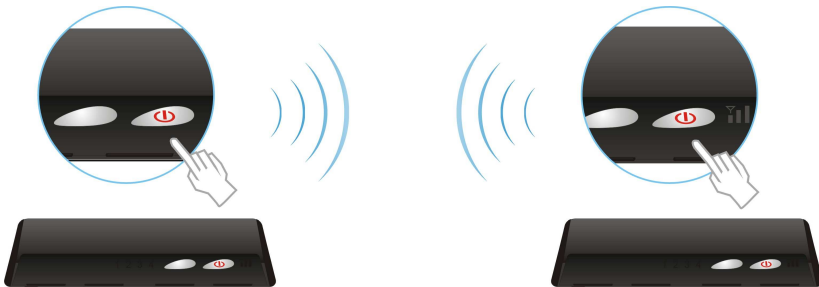
- (1) **Place** the two AAA batteries into the remote control.



- (2) **After** the power cord is plugged into the electrical outlet, the BV-2322 will be turned on automatically.



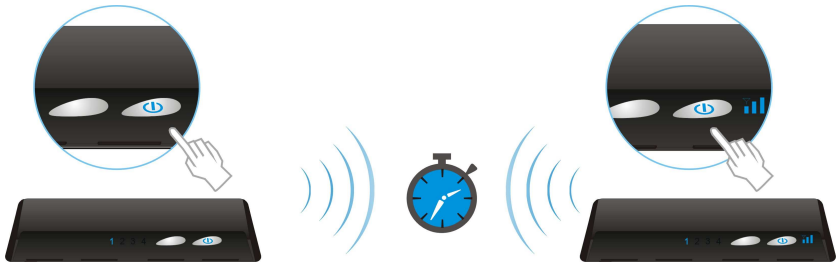
- (3) **If it is on Standby mode and the loop-through connection is on, and the both displays are off (Both POWER LED of transmitter and receiver are lit in red), press the POWER button on both transmitter and receiver to turn on the BV-2322T and BV-2322R.**



- (4) **If it is on Standby mode with the loop-through connection on, and the 1nd display attached to the transmitter + A/V source is on (Transmitter POWER LED is lit in purple and Receiver POWER LED is lit in red), press the POWER button of receiver to turn on the BV-2322T and BV-2322R.**
Note : During this period, BV-2322T will enter Standby mode and turn off Loop-through output when press the POWER button of transmitter or press the POWER key of RCU pointed at transmitter.



- (5) **During** the warm-up, the POWER LED will blink in blue until the signal link between the BV-2322T and the BV-2322R is established.



Ensure your 2nd TV set or projector is on “HDMI input” mode, and is already powered on.



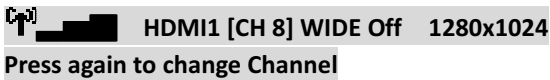
(6) **Press** the SOURCE button, until you see the video being broadcasted from your A/V device.



(7) **If you** have electronic devices such as a cordless phone or wireless access point/ router sharing the 5GHz channel frequency, you may experience disturbed picture or diminished sound quality when the Air SyncHD is close to those devices. Press the CHANNEL button on the remote control to change the BV-2322 to different channels.



Note:
A. Changing the BV-2322 to a different wireless channel:

	1. Enter the wireless RF channel adjustment mode	2. Changes to the next available RF wireless channel	3. Exit the wireless RF channel adjustment mode
Method	Press the CHANNEL button on the Remote Control Unit (RCU) for current channel status display.	Press the CHANNEL button on the RCU again within 5 seconds to switch channel randomly.	No button is pressed for 5 seconds.
OSD Display Status	 HDMI1 [CH 8] WIDE Off 1280x1024 Press again to change Channel		Exit.

B. Channel Number Indicating the Wireless Frequency:

WIDE mode Off Frequency [MHz]	US (DFS)		Europe (DFS)		Japan (DFS)	
	Support Region	Channel	Support Region	Channel	Support Region	Channel
5190	V	1	V	1	V	1
5230	V	2	V	2	V	2
5270	V	3	V	3	V	3
5310	V	4	V	4	V	4
5510	V	5	V	5	V	5
5550	V	6	V	6	V	6
5590	X	X	X	X	X	X
5630	X	X	X	X	X	X
5670	V	7	V	7	V	7
5755	V	8	X	X	X	X
5795	V	9	X	X	X	X
5835	X	X	X	X	X	X

WIDE mode ON Frequency [MHz]	US (Non-DFS)		Europe (Non-DFS)		Japan (Non-DFS)	
	Support Region	Channel	Support Region	Channel	Support Region	Channel
5160	X	X	X	X	X	X
5180	V*	1	V	1	V	1
5200	V*	2	V	2	V	2
5220	V*	3	V	3	V	3
5240	V*	4	V	4	V	4
5260~5700	X	X	X	X	X	X
5745	V	5	X	X	X	X
5765	V	6	X	X	X	X
5785	V	7	X	X	X	X
5805	V	8	X	X	X	X
5825	V	9	X	X	X	X

Note :

- A. Gray background are indicates the DFS region.
- B. * means “Limited to indoor use”.
- C. NOT to use Weather Satellite Channels on DFS :
 - i. WIDE mode OFF : Center Frequency 5590MHz, 5630MHz
 - ii. WIDE mode On : Center Frequency 5600MHz, 5620MHz, 5640MHz

- (8) **If all** operation is normal, the POWER LED and SOURCE LED will glow in solid blue. Please refer to the next form containing detailed LED description :

Note:

- A. Make sure your high-definition audio/video devices connected to the BV-2322T has already been powered on.
- B. Warming-up or source switching time should take approximately 20~30 seconds if the operation is in normal condition.

- (9) **TRANSMITTER/RECEIVER** Status Indicator LED Light and OSD :

Status indicator LED light on the front display the following messages:

Power LED	Source LED	Mode	Status Description	OSD Display
Static Purple on TX Static Red on RX	Static Blue on TX Off on RX	Listen	To lower power consumption; "Loop through" display always on.	Please refer Section 2.2, paragraph C & D for detailed description.
Static Red	Off	Standby	For the lowest power saving used.	Please refer Section 2.2, paragraph C & D for detailed description.
Blinking Blue	Blinking	Initial Boot up	System boot up and RF linking automatically.	Searching available channels...
Blinking Blue	Blinking	Booting and Linking	RF linking	Searching available channels...
Static Blue	Blinking 3 times /sec. (Quickly)	Linked	No input detected from selected source.	No Signal
	Blinking 1 time / sec. (Slowly)		Video frame rate or resolution cannot be recognized. (Not supported or out of range.)	No Supported Format.
	Static Blue		Video frame rate or resolution is recognized. Transmission is available with stable RF signal.	

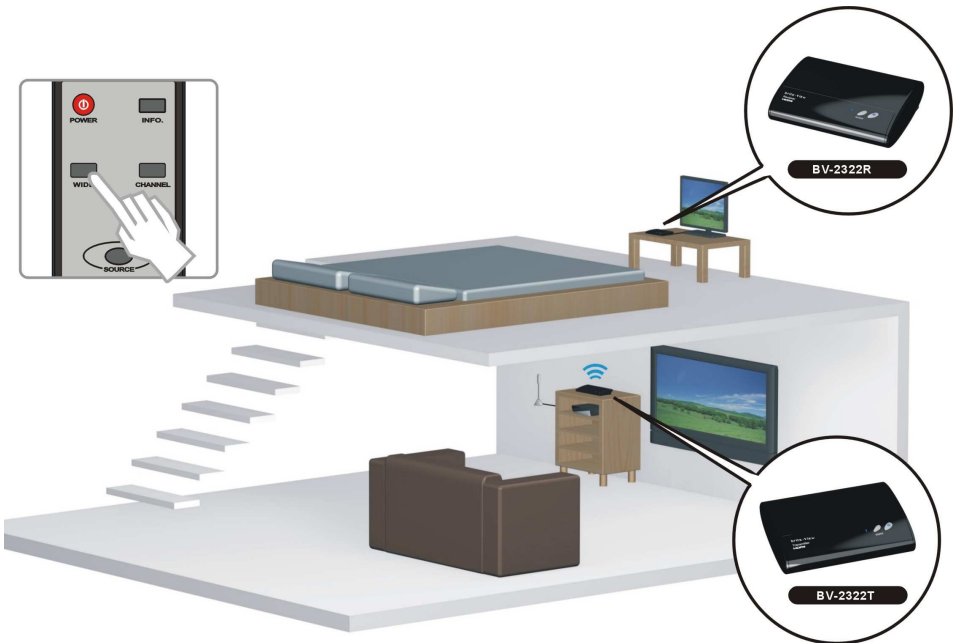
Note:

- A. If there is no signal quality shown, and the Source & Status LED is blinking in blue, the transmitter is most likely out of range. You may have to verify the range and adjust or shorten the distance between the your HDTV set with the transmitter and the receiver. (The maximum video transmission range for 1080p content is up to 66 feet in line of sight (LOS) scenarios.) < The minimum range is 6.5 feet. > The transmission distance for 1080i content (WIDE mode on) is up to 100 feet (Line of Sight).
- B. If the connection or link is lost, it may be caused by the following reasons:
 - a. The range is over the maximum transmission distance.
 - b. Either the transmitter or the receiver has been switched off.
- C. If the SOURCE LED continues to blink in blue (slower than “no signal mode”) and there is no video displayed or the video quality suffers, this is an indication that the video frame rate from the source device is not supported, or the transmission is out of range.

Step 5: For multi-room audio/video transmission or transmission between different floors, user could press the “WIDE” button on the remote control to enable the Wide mode for longer-range audio/video transmission..

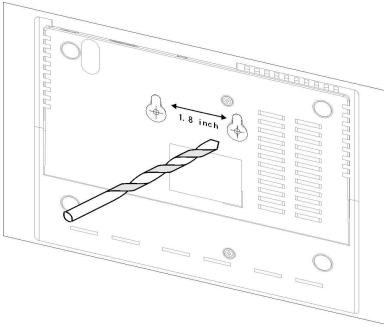
Note:

1. Only 1080i or lower-quality video transmission is available when enabling the “Wide” mode (OSD shows: WIDE On). Please shorten the distance and disable the “Wide” mode (OSD shows: WIDE Off) if full HD 1080p 60Hz content transmission is desired.
2. Enable the “Wide” mode for longer distance transmission with better video quality; it’s suitable for multi-room audio/video transmission or transmission between different floors. The transmission distance when WIDE mode on is up to 100 feet (Line of Sight).

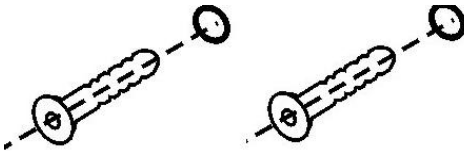


Step 6: Mounting the BV-2322 to the Wall

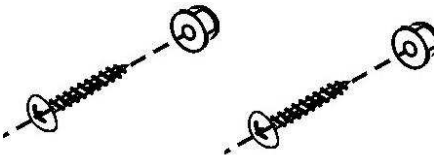
- (1) Refer the drawing of the bottom page that have relative position of the key holes and attach this paper on wall.



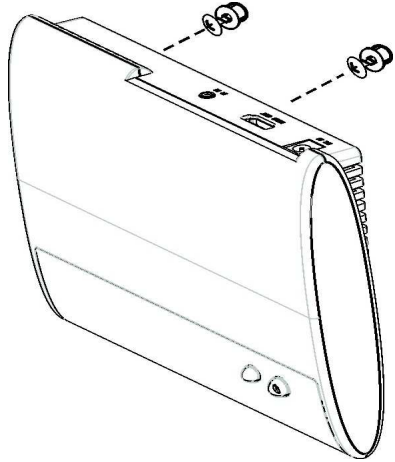
- (2) Drill pilot holes.
- (3) Insert the supplied two Anchors into the wall.



- (4) Insert two screws into the anchors. Leave 1/8" length for mounting the Transmitter or receiver.

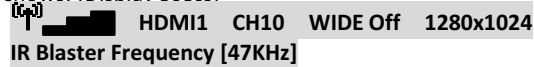


- (5) Place BV-2322 key holes over the protruding screws and slide down into position.



4. Troubleshooting

Problem	Solution
The BV-2322 front panel power indicator (red LED) doesn't light up.	<ul style="list-style-type: none"> Check if the power plugs of BV-2322T/BV-2322R are properly inserted into a functioning power outlet.
There is no video displayed on your TV screen.	<ul style="list-style-type: none"> The wireless link might require 80 seconds to connect between transmitter and receiver, and show video on the TV screen. Please be patient and wait for a while. Verify that the proper cables have been selected and installed between the BV-2322T (transmitter) input and your High-Definition device output. On your TV side (connected to the BV-2322R), select the HDMI as input source. Verify the POWER LED and SOURCE LED indicator of BV-2322. Power LED Flashing in Blue <ul style="list-style-type: none"> * Ensure the transmission range between the transmitter and the receiver is not over 66 feet (LOS-line of sight). Move the transmitter closer to the receiver. * Press CHANNEL on the included remote control to manually change the wireless channel. POWER LED in Solid Blue + Slow and Flashing SOURCE LED <ul style="list-style-type: none"> * Ensure your video resolution and frame rate is recognized/ supported and within the transmission range. * Connect the source device to your TV to check and modify the video format compatibility. * Check your video resolution with HDMI input from your device is 1080p, 1080i, 720p, 576p, 480p. POWER LED in Solid Blue STATUS LED Flash Quickly <ul style="list-style-type: none"> * Ensure the proper cables are connected between the transmitter and your AV devices. * Ensure your source devices connected to the BV-2322 transmitter are powered on.
Poor picture quality or intermittent video play.	<ul style="list-style-type: none"> Check if your video resolution with HDMI input from your device is either 1080p, 1080i, 720p, 576p, or 480p. Please refer to the "Supported Resolution" chapter where the video frame rate from your HD AV device BV-2322 can support is defined. Press CHANNEL on BV-2322 remote control to manually change the wireless channel. Ensure the transmission distance is less than 66 feet (LOS).
No audio.	<ul style="list-style-type: none"> Check your TV's volume is properly set and not in "MUTE" mode. Check if the audio connectors are properly connected.

	<ul style="list-style-type: none">• Ensure the bit rate of audio from the source device can be supported by BV-2322. Please refer to the details in Chapter 6 Audio Bit Rate Support.
No Supported Video /Audio on WIDE mode only.	<ul style="list-style-type: none">• Check the HDMI output setting of Source device, setup HDMI output format to Auto mode instead of 1080p.• Check Chapter 5: “Supported Resolution”. Some resolution can’t be supported on WIDE mode on.
IR Blaster can’t control Source device.	<ul style="list-style-type: none">• Make sure IR Blaster sensor is close by or attached to source device’s IR sensor. Please refer to Chapter 3’s Step3 for reference setup.• Change IR Blaster frequency to meet Source device’s requirement. Please press Source key on top of the Receiver/Transmitter or RCU to switch IR Blaster frequency 47K to 58K to 38K recurring.- The OSD shows: (Display 5secs)  Press Source key again within 5seconds to change IR Blaster frequency.

5. Supported Resolution

If the SOURCE LED continues to blink in blue (slower than “no signal” mode); OSD display: “No Supported Format ” and there is no video displayed or the video quality suffers, it indicates that the video frame rate from your A/V source device is not supported. Ensure that the consumer timing of your HD device is compliant with the standard listed below:

Video Format Timings	Resolution	WIDE mode OFF	WIDE mode ON
Primary CEA Video Timing			
640x480p @ 59.94 / 60Hz	480p	YES	YES
720x480p @ 59.94Hz		YES	YES
720x480p @ 60Hz		YES	YES
720x576p @ 50Hz	576p	YES	YES
1280x720p @ 50Hz	720p	YES	YES
1280x720p @ 59.94 / 60Hz		YES	YES
1920x1080i @ 50Hz	1080i	YES	YES
1920x1080i @ 59.94 / 60Hz		YES	YES
1920x1080p @ 50Hz	1080p / 60	YES	n/a
1920x1080p @ 59.94 / 60Hz		YES	n/a
Secondary CEA Video Timing			
1920x1080p @ 23.98 / 24Hz	1080p / 24	YES	YES
1920x1080p @ 25Hz		YES	YES
1920x1080p @ 29.97 / 30Hz		YES	YES
VESA Timing (DVI only)			
640x480 @ 59.94 / 72.809Hz	VGA	YES	YES
800x600 @ 60.317 / 72.188Hz	SVGA	YES	YES
1024x768 @ 60 / 70.069Hz	XGA	YES	YES
1280x768 @ 60 Hz	WXGA	YES	n/a
1280x1024 @ 60 Hz	SXGA	YES	n/a
1600x1200 @ 60Hz	UXGA	YES	n/a

6. Audio Bit Rate Support

- Digital Audio from HDMI inputs: Up to 6Mbit/s bit-rate support.
- Support AC3 and DTS.
 - ☐ 2-channel PCM over S/PDIF : 16~24 bits audio sample with 32~48KHz sampling rate

2channel PCM	32KHz	44.1KHz	48KHz	96KHz
16 bits	YES	YES	YES	YES
24 bits	YES	YES	YES	n/a

7. Product Specification

General Specifications			
Supported Video Resolutions	HDMI Input	1080p, 1080i, 720p, 576p, 480p	
Supported Audio Formats	Digital Audio	up to 6 Mbps AC3 and DTS	
Transmission Distance		1080p (WIDE mode Off) : Up to 66 feet, line-of-sight 1080i (WIDE mode On) : Up to 100 feet, line-of-sight Minimum distance requirement: 6.5 feet apart	
System Latency		No latency (<1ms)	
Antenna		High Performance Internal Antennas	
Operating Frequencies		4.9~ 5.9GHz (Include non-DFS and DFS Frequency Bands)	
Power Supply		100~ 240V AC in, 5V 3A DC out Power Adaptor	
Operating Temperature		0~40°C	
Interfaces		BV-2322T	BV-2322R
A/V Interfaces	HDMI Input	One (Type A)	-
	HDMI Output	-One (Loop-through)	One (Type A)
Control Signal Interfaces	IR Sensor	-	YES
	IR Sensor Extender	-	2.5mm Jack
	IR Blaster Extender	2.5mm Jack	-
Power Interface	Power Input	5V DC Jack	5V DC Jack
Switches	Front Power Switch	YES (One Tack Switch)	YES (One Tack Switch)
	Front Channel Switch	YES (One Tack Switch)	YES (One Tack Switch)
LEDs	Power LED	1 x LED (Three Tone: Blue / Red/purple)	1 x LED (Three Tone: Blue / Red)
	Status LED	21x Blue LED	1 x Blue LED
	Signal Quality Status	-	OSD Displayed
Dimensions		181(W) x 145(L) x 33(H) mm	181(W) x 145(L) x 33(H) mm

