

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-2822T and BV-2822R. It contains important information about operating your Full HD video wireless kit.

Our 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





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.

<u> W</u>arning

- 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.
- This is indoor solution.
- Our company has the right to modify this document without any notice.

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 \leq 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 is 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-2822 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-2822 transmitter and receiver is between 2 and 20 meters within line of sight.

CAUTION of RF module on US region

- 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 provided 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 not operation 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 of System on US region

- 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 provided 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 not operation in 5600~5650MHz.

CAUTION of System on Canada region

- 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-2822T and BV-2822R wireless HD

audio/video transmission solution allows users to place their HDTV set or projector where they want, free of the constraint of cables. Just connect your HDTV to the BV-2822R (receiver) with an HDMI cable, and connect your AV equipments (Blu-ray players, HD set-up boxes, game consoles, HD media players or streamers) to the BV-2822T (transmitter) by HDMI cable or Component cable are available.

Besides HDTVs, any display with an HDMI input, such as LCD and plasma monitors or projectors, are compatible with the BV-2822R.

This setup doesn't clutter 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-2822R directly for device operation.

Note:

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.

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-2822T: Full HD Transmitter



Front Panel Buttons and LEDs

Power Button with LED Indicator

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

Source Selection Button

Press to switch between the various inputs of the transmitter. The one of six LED indicators next to this button is lit in solid blue to show current input you switch. Press this button to cycle through connected sources in sequence. Source $1 \sim 4$ are HDMI input.

Source 5 \sim 6 are Component input with L/R Audio input.



Main Unit Back Panel

1 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-2822T. You can point your AV equipment's existing remote control at the BV-2822R receiver (usually close to your TV) to control the connected device.

HDMI OUT

To use the "loop-through" feature, you can place your 1^{st} HDTV set close to the AV equipment, and connect the BV-2822T (transmitter) to that HDTV set via HDMI out, and the AV equipment via HDMI in or Component in. Then, you can enjoy the same digital content on your 2^{nd} HDTV set connected to the BV-2822R (receiver), possibly in another room.

HDMI IN

Connect Transmitter to High-definition audio/video devices that have an HDMI port using a provided HDMI cable. BV-2822T supports 4 HDMI in for user selection.

Component Video IN/ Audio L/R IN

Connect to audio/video devices with Component jack (YPbPr) and Audio L/R, such as DVD player, Blu-Ray Player or Cable Set-Top Box. BV-2822T supports 2 Component in with audio L/R for user select it.

O DC IN

For connecting the BV-2822T power adapter.

Note:

The BV-2822T transmitter can support up to six audio/video devices running on HDMI cable or YPbPr cable, plus looping through the signals to the HDTV set via the HDMI OUT port at the same time. Only one AV source connected to the BV-2822T can be selected and displayed on either the HDTV connected to the BV-2822T, 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-2822R: Full HD Receiver



Front Panel Buttons and LEDs

O 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.

Source Selection Button

Press this button repeatedly until you see the desired video transmitted to your TV set.



Main Unit Back Panel

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-2822T by pointing the remote control to the TV instead of the AV equipment.

HDMI OUT

For connecting the HDTV set via an HDMI cable.

🔁 DC IN

For connecting the BV-2822R power adapter.

Note:

Make sure you have connected the BV-2822R 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-2822, 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 distance between the two is 6.5 feet minimum.

C. Remote Controller Unit (RCU) Instruction

CHANNEL
>
i.

Button	Function Description	Operation
POWER	Press to turn the BV-2822 Transmitter/ Receiver on/off. See below for Note 1 & 2.	When BV-2822T's LED is in purple (listen mode; loopthrough on) and BV-2822R's LED in red: Point the remote at the BV-2822R and press POWER to connect it to BV-2822T. When a connection is established, both POWER LEDs should be in solid blue.
INFO.	Press this button to display related information. Please refer to page 10 for more information.	Press once to display the current status. Press again to exit OSD. When using component video connection, this button can be used to adjust clock and phase alignment.
SOURCE	Press this button to switch audio/video sources connected to the BV-2822T.	Press to go to the next input source. Users can see the current setting on the OSD.
CHANNEL	Press this button to change 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	Press this button to distance; up to 100 feet under line of sight. (1080i content only)	Press this button to enable or disable WIDE mode. Press again within 5 seconds to enable WIDE mode, and the status will be displayed on the OSD. (Default = WIDE off)

Note:

1. When the system is in

active mode, press POWER key on the RCU pointing to transmitter or on the top of transmitter, then both the transmitter and the receiver will enter "Standby mode" (RF disconnected; LED lit in red) and Loop-through display and the 2nd display will be off.

- 2. When the system is in active mode, press POWER key on the RCU pointing to receiver or on the top of receiver, then the transmitter will enter "Listen mode" (RF disconnected; POWER LED lit in purple) and the 2nd display (the display attached to the receiver) will be off but Loop-through display (the display attached to the transmitter) will keep on.
- 3. The "Standby" mode (Power LED lit in red) consumes 90% less of the power. User has to press power key on top cover of both transmitter and receiver or press POWER key pointing to transmitter and receiver both to resume to "Active mode".

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

Press the POWER button

 Point the RCU at transmitter and press POWER, or press the power button on the top of the transmitter, to enter " standby mode " from "active mode".
 OSD Displayed:

The HDMI1 CH 1 WIDE Off 1280x1024 Standby Mode, Loop-thru Off

 Press the RCU at receiver and press POWER, or press the power button on the top of the receiver, to enter "standby mode" from "active mode".
 OSD Displayed:

Tenenal HDMI1 CH 1 WIDE Off 1280x1024 Standby Mode, Loop-thru On

Press the INFO button

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

OSD Displayed:

(2) During the OSD display, press "SOURCE" key to change the clock and phase alignment (only available when using component video.)

OSD Displayed:

Clock Phase:1 FINFO: Enter & Exit OSD

• Press the SOURCE button on the RCU or on the top of transmitter (or receiver) for audio/video source input selection.

OSD Displayed:



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

Press "Channel" button once for current Channel status displayed on the OSD :

LENGTH HDMI1 [CH 1] WIDE Off 1280x1024

Press again to change Channel

Press the "Channel" button again within 5 seconds to switch Channel manually.

HDMI1 [CH 8] WIDE Off 1280x1024

Press again to change Channel

O Press the WIDE button of RCU for longer distance transmission of audio/video contents.

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

Tess again to switch WIDE mode

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

T HDMI1 CH 1 [WIDE On] 1280x1024 Press again to switch WIDE mode

NOTE:

The OSD can only be displayed on the receiver (BV-2822R) side, but not the transmitter (BV-2822T) side.

3. Installation

Step1: Setup the BV-2822T transmitter

Connect Six High-Definition Audio/Video Sources and an HDTV to the BV-2822T:



- Connect the BV-2822T's

 (transmitter)"HDMI IN" to the
 High-Definition AV sources' "HDMI OUT"
 with HDMI cables. The BV-2822T has four
 HDMI inputs for the High-Definition device,
 like PS3, Blu-ray Player.
- (2) Connect a set of RCA cables (green, blue, red-colored cables) between the Y/Pb/Pr IN connectors of the BV-2822 and corresponding COMPONENT (Y/Pb/Pr OUT) connectors on your High-Definition devices.

Step2: Setup the BV-2822R receiver with the HDTV HDTV set Connection with ZWD-2822R:

- (3) Connect the BV-2822T's (transmitter) "HDMI OUT" to the HDTV set's "HDMI IN" port with an HDMI cable for the loop-through output.
- (4) Connect the supplied power adapter to the DC IN jack of the BV-2822T and a wall socket. The LED indicator in the POWER button lights up in solid purple when the BV-2822T is connected to the power mains.



 Connect the HDMI cable to the HDMI OUT jack of the BV-2822R 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-2822R and a wall socket. The LED indicator in the POWER button lights up in solid blue when the BV-2822R 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-2822R or the HDTV set to operate the source devices, not exceeding the distance of 66 feet at Line-of-sight.



 Plug the IR blaster cable into the IR OUT jack of the BV-2822T.
 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 to the device. Users can control their AV devices by pointing their remote control to

the TV instead of to 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-2822R (receiver).

Note:

- The IR sensor supports 36KHz ~ 56KHz (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-2822T and BV-2822R

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



(2) After the power cord is plugged into the electrical outlet, the BV-2822 will be turned on automatically.



(3) If the BV-2822 is in standby mode and the Loopthrough connection is off (both POWER LEDs of the transmitter and receiver are lit in red), press POWER on both BV-2822T and BV-2822R to turn them on. It will take about 1 minute for the system to boot up.



(4) If it is in Standby mode and Loop-thru. display 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-2822T and BV-2822R.

Note: During this period, BV-2822T will enter Standby mode and turn off Loop-thru. display when press the POWER button of transmitter or press the POWER key of RCU point to transmitter.



(5) During the warm-up, the POWER LED will blink in blue until the signal link between the BV-2822T and the ZWD-2822R is established.



Ensure your TV set or projector is in "HDMI input" mode, and is already powered on.



(6) Press the Source button until you see the video being broadcasted from your device.



(7) If you have electronic devices such as a cordless phone, wireless access point/ router sharing the 5GHz channel frequency, when you use it near the BV-2822, you may experience disturbed picture or diminished sound quality. Press the CHANNEL button on the remote control to change the BV-2822 to different channels.



Note:

A. Changing the BV-2822 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 Press again to change Cha] WIDE Off 1280x1024 annel	Exit.

B. Channel Number Indicating the Wireless Frequency:

WIDE mode Off	US (non-DFS)		
Frequency	Support Region	Channel	
[MHz]			
5190	V	1	
5230	V	2	
5270	Х	Х	
5310	Х	Х	
5510	Х	Х	
5550	Х	Х	
5590	Х	Х	
5630	Х	X	
5670	Х	X	
5755	V	8	
5795	V	9	

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

Note :

- A. Gray background indicates the DFS region.
- B. All channels are "Limited to in-door use".
- C. Unused Weather Satellite Channels on DFS:
 - i. WIDE mode OFF: Center Frequency 5590MHz, 5630MHz
 - ii. WIDE mode On: Center Frequency 5600MHz, 5620MHz, 5640MHz

(8) TRANSMITTER/RECEIVER Status Indicator on LED and OSD:

LED indicator status light on the front panel and OSD displayed status that indicates 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	"Loop through" display always on; Wireless transmission off.	HDMI1 CH10 WIDE off 1280x1024 Standby Mode, Loop-thru On
Static Red	Off	Standby	For the lowest power consumption.	HDMI1 CH10 WIDE off 1280x1024 Standby Mode, Loop-thru Off
Blinking Blue	Blinking	Initial Boot up or Linking	System boots up Or RF linking. (Note A)	HDMI1 CH WIDE off Searching available channels
	Blinking 3 times /sec. (Quickly)		No input detected from selected source. (Note B)	No Signal
Static Blue	Blinking 1 time / sec. (Slowly)	Linked	Video frame rate or resolution cannot be recognized. (Note C)	Not Supported Format
	Static Blue		Video frame rate or resolution is recognized. Transmission is available with stable RF signal.	

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.
- C. If the RF connection exceeds 30sec without the link established, the link might be lost or the transmitter is most likely out of range. You have to verify the range and adjust or shorten the distance between your HDTV set with the transmitter and the receiver. The maximum video transmission range for 1080p content (WIDE mode off) is up to 66 feet in line of sight (LOS); The maximum video transmission range for 1080i content (WIDE mode on) is up to 100 feet (Line of Sight). < The minimum range is 6.5 feet >

Step 5: WIDE mode usage

Users could press the "WIDE" button on the remote control to enable the WIDE mode for longer-range audio/video transmission in a multi-room setting or between different

floors.

Note:

Only 1080i or below HD 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.



Step 6: Mounting the BV-2822R (receiver) to the Wall

(1) Refer the drawing of the bottom page that have relative position of the main 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-2822R main holes over the protruding screws and slide down into position.



4. Troubleshooting

Problem	Solution
The BV-2822 front panel power indicator (red LED) doesn't light up.	 Check if the power plugs of BV-2822T/BV-2822R are properly inserted into a functioning power outlet.
No video is displayed on your TV screen.	 Verify that the proper cables have been selected and installed between the BV-2822T (transmitter) input and your High-Definition device output. On your TV side (connected to the BV-2822R), select the HDMI as input source. Verify the POWER LED and SOURCE LED indicator of BV-2822. Power LED Flashing in Blue OSD shows: Searching available channels * Ensure the transmission range between the transmitter and the receiver is not over 66 feet (LOS-line of sight) transmission distance. 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 OSD shows: No Supported Format * 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 if your video resolution with HDMI input from your device is set among 1080p, 1080i, 720p, 576p, or 480p. POWER LED in Solid Blue STATUS LED Flash Quickly OSD shows: No Signal * Ensure the proper cables are connected between the transmitter and your AV devices. * Ensure the proper cables are connected to the BV-2822 transmitter are powered on.
_	your 2 nd HDTV near the receiver.
Poor picture quality or intermittent video.	 For the solution with the part of component input of component input from source device is set among BV-2822's Specification. Please refer to the "Supported Resolution" chapter where the video frame rate from your HD AV device BV-2822 can support is defined. Press CHANNEL on BV-2822 remote control to manually change the wireless channel. Ensure the transmission distance is less than 66 feet (LOS).

No audio.	 Check your TV's volume is properly set and not set in "MUTE" mode. Check if the audio connectors are properly connected. Ensure the bit rate of audio from the source device can be supported by BV-2822. Please refer to the details in Chapter 6 Audio Bit Rate Support. 		
No Supported Video /Audio on WIDE mode only.	 Check the HDMI output setting of Source device, set up 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.	 Check where is IR sensor of Source device. Make sure IR Blaster sensor is close and straight to Source device's IR sensor. Please refer Chapter 3, step 3 for reference setup. Change IR Blaster frequency to meet Source device's requirement. Please continue pressing Source key on the top of Receiver only over 3secs to switch IR Blaster frequency 47K to 58K to 38K recurring. The OSD shows: (Display 5secs) HDMI1 CH2 WIDE Off 1280x1024 IR Blaster Frequency [47KHz] Press Source key on the top of Receiver again to switch 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				
720(1440)x480i @ 59.94Hz	490;	YES (For Component Input only)		
720(1440)x480i @ 60Hz	4801	YES (For Compo	nent Input only)	
640x480p @ 59.94 / 60Hz		YES	YES	
720x480p @ 59.94Hz	480p	YES	YES	
720x480p @ 60Hz		YES	YES	
720(1440)x576i @ 50Hz	576i	YES (For Compo	nent Input only)	
_. 720x576p @ 50Hz	576p	YES	YES	
1280x720p @ 50Hz	720 n	YES	YES	
1280x720p @ 59.94 / 60Hz	720p	YES	YES	
1920x1080i @ 50Hz	1090;	YES	YES	
1920x1080i @ 59.94 / 60Hz	10801	YES	YES	
1920x1080p @ 50Hz	1090 - / 60	YES	n/a	
1920x1080p @ 59.94 / 60Hz	10900/00	YES	n/a	
	Secondary CEA	Video Timing		
1920x1080p @ 23.98 / 24Hz		YES	YES	
1920x1080p @ 25Hz	1080p / 24	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 8 channel PCM: 16~24 bits audio sample with 32~96KHz sampling rate as below:

2 – 8 channel PCM	32KHz	44.1KHz	48KHz	96KHz
16 bits	YES	YES	YES	YES
24 bits	YES	YES	YES	YES

Analog Audio from Base Band audio L/ R inputs: Convert to 2-channel by fixed 24 bits/sample with sampling rate 48KHz over Wireless High-Definition Interface transmission

Analog Audio Input		
Input Level 500mVrms (typ. \pm 10%) @ 27K Ω load		
Туре	Stereo R/L channel	

7. Product Specification

Specification			
Supported Video Resolution	Component Input	1080p, 1080i, 720p, 576p, 576i, 480p, 480i	
	HDMI Input	1080p, 1080i, 720p, 576p, 480p	
Supported Audio	Analog Audio	48KHz and 24-bit Per Sample	
Formats	Digital Audio	Up to 6 Mbps AC-3 and DTS	
Transmission Range		LOS (line of sight): Maximum 20 meter (66 feet)	
		(The minimum range is 2 meters)	
		Line of sight (LOS) scenarios	
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-2822T	BV-2822R
A/V Interfaces	Component Input	Two Sets of RCA Connectors	-
	Analog Audio L/ R	Two Sets of RCA Connectors	-
	HDMI Input	Four (Type A)	-
	HDMI Output	One (Loop-through)	One (Type A)
Control Signal Interfaces	IR Sensor	YES	YES
	IR Sensor Extender	-	2.5mm Jack
	IR Blaster Extender	2.5mm Jack	-
Power	Power Input	5V DC Jack	5V DC Jack
Switches	Front Power Switch	YES (One Tack Switch)	YES (One Tack Switch)
	Source Selection Switch	YES (One Tack Switch)	YES (One Tack Switch)
LEDs	Power LED	1 x LED (Three Tone: Blue / Purple / Red)	1 x LED (Two Tone: Blue / Red)
	Source LED	6 x Blue LEDs	6 x Blue LEDs
	Signal Quality Status	-	OSD Displayed
Dimensions		295(W)x149(L)x45.5(H) mm	181(W)x145(L)x 33(H) mm



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