CW 视晶无线
CRYSTAL VIDEO

WIRELESS HD TRANSMISSION SYSTEM

CW 视晶无线
CRYSTAL VIDEO

USER MANUAL

This user manual applies to:

Transmitter : CV6608/ CB8801/ CB8808/ CB2601

Receiver : CV6620/ CB3801

Important Information

Please read this user manual before you use this product, it contains all the notes and impor-
tant things regarding operating this product.In accordance with the safet precautions and
operating instructions listed on this user manual, our applies provided the product is handled
properly for its intended use, but may not apply to below cases:

- Repairs or product modification and alterations have been executed by unauthorized
personnel.
- The damages are caused by accidents including but not limited to lightning, fire, exposed
to rain or water,and moisture.
- Do not use provided power adapter with specific power voltage which are not compliant
with the rated voltage range in the attached label of the power adapter in package.
- The model label on the product has been modified or the warranty tag has been removed
by unauthorized personnel.

⚠ Safety Precaution

⚡ **Danger! High voltage**	To reduce the risks of electricity, do not remove or open the cover. No user-serviceable parts are inside. Please return to original factory for maintenance
Beware of hot surfaces!	The high temperature in the process of operating the device may cause the high risk of scalding.
⚠ **Caution!**	Please use our standard power adapter.Detailed information Please refer to the rated voltage range showed on the label at the back of package's power adapter.

⚡ Danger: Be careful with electricity.

- As connecting any equipment (such as any player or TV , etc.),
please turn off the power to the product before any operation is undertaken.
- Power outlet:To prevent electric shock or fire, short circuit, please make sure the type of
electrical plug used on the receiver's and transmitter's power cord are compliant with the
rated voltage range in the attached label of the power adapter in package.
- Power cord: Do not place any heavy articles above on the power cord. To avoid being
stepped on or pinched by heavy items, the power cord should not be located on the place
where people pass by frequently.
- Power overloading: Avoid overloading wall's electrical outlets and extension cord or other
multi-socket;otherwise could result in electronic shock or fire.
- Lightning: For protection from lightning or when the product is left unattended for a long
period, please disconnect it from the power source.
- Please disconnect the power cord from the power outlet when you are not using the
receiver and transmitter, this will reduce the risk of electric shock or fire.

⚠ Warning

- This product should not be exposed to dripping or splashing. Do not place any object filled
with liquid on the product(eg. vases).
- To avoid electric shock, please do not block or stick anything on the air vent of product; do
not remove the cover or put the object just like pins, steel wire into the gap of the air vent.
- Please place the receiver/emitter on a flat with hard and stable surface.
- Ventilation: please do not block the air vents on the receiver/transmitter or place any heavy
object on top of them . Blocking the air flow can damage the product itself. Please make
sure that there is adequate ventilation distance between the receiver and TV, and also put
the product away from direct sunlight or any source of heat.
- Water Exposure: To reduce the risk of electric shock or fire , please do not expose the
receiver/transmitter to rain or moisture.
- We're no responsible for any damage or result caused by unsing other adapters instead of our
standard adapters

Special Notice

- Although the product has provided the function of data encryption when transmitting,
you still need to pay attention to deliberate signal interception. There will be the
Possibility of a third party intentionally intercept the transmission signal since the product
adopt wireless communication. Please do not use the product on confidential and important
communications, or life-related communications The main concern is that the content of
wireless communication might be received by the third party's wireless devices deliberately
or accidentally.
- The impact of radio waves (such as the following environment may cause the abnormal
audio and video(blocked image, noise ...etc.).
  1) Transmit near the wall which is hard for the radio waves to get through.
  2) Quite close to the refrigerator, metal fitment and appliances, or next to the crowded
      situation.
- This product has been tested and manufactured to comply with national electrical safety
rules, however, there will be noise caused by the interference with other machines in rare
cases. If the interference is happened, please keep a certain distance away from other
machines.
- The product is susceptible to interference from 5GHz wireless local area network or other
wireless devices.
- Optimal range between transmitter and receiver is between 1 meter and 30 meters within
line of sight indoor.
- Please do not set up the transmitter and receiver in metal shelf, or it will hinder the
wireless communications.
- 1080P/60 Hz Wireless transmitting.
- It will take 15-20 seconds to boot the system before wireless communication start, the
media receiver can not be operated during this time.
- This wireless product has minute amounts of radiation, pls keep at least 20cm away from human
while using
- This product is for indoor use only.

CONTENTS

About The Instructions

- Please read this manual carefully before you use these products and retain it properly for future reference.
- If there is any doubt or difficulty in the process of product usage, please feel free to contact us or the dealer.
- The company reserves the authority to amend the specification.
- The user manual is applied to the following model of wireless HD transmitter and receiver:

◆ Basic model of product support point to point, multi-point to multi-point wireless transmission, no other special function supporting.
Cv6608, CV6620, CB8801, CB8808,CB3801, CB2601

◆ Product model suffix with a "W" means supporting WHDI software function.
CV6608W, CV6620W, CB8801W, CB8808W, CB3801W, CB2601W

◆ Product model suffix with a "H" means supporting HID PC Remote Control function.
CV6620H,CB8801H,CB8808H,CB3801H,CB2601H

◆ Product model suffix with a "D" means supporting 3D video transmission function.
CV6608D,CV6620D,CB8801D,CB3801D,CB2601D

◆ Product model suffix with "WHD" means supporting WHDI software, HID Keyboard/Mouse Remote Control function and the 3D video transmission function.
CV6620WHD, CB8801WHD, CB3801WHD, CB2601WHD, CB8808WH

Brief Introduction

Thank you for choosing this product. This product adopt the latest high-definition (HD) wireless audio/video(AV) transmission technology which can enable the wireless transmission of any uncompressed HD 1080P video and audio from an HD source device(Set-top-box/ HD Player/ Blu-ray DVD/ PC/ TV/ Game Machine/Recorder) to an HD display device(LCD TV/LED TV/Projector). You can always enjoy the quality of life and more convenient life without the expense, mess or hassle of HD cables.
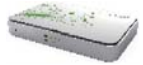
Product Feature

■ Support 1080P/60Hz, no latency with using real-time HD video transmission technology
■ Support point-to-point, multi-point to multi-point transmission
■ Support USB HID remote control,
■ Support IR remote control .(Support 38K remote's signal protocol.)
■ Compatible with EDID 1.1, support HDMI 1.3 (3D series product support HDMI 1.4)
■ Support 128 AES image encryption
■ Support OSD, WHDI 1.0 specifications
■ Full hardware design, no software requested, plug-and-play.

Packing List

Please check the packing list carefully after unpacking, if any part is missing, please contact your dealer. Accessories of all models are subject to the following packing list.

AV Sender Packing List

TX:CV6608

Wireless HD Transmitter
CV6608 x 1

Base x 1

IR Remote Extension
Connector X 1

Power Supply
(5V/2A) x 1

RX:CV6620

Wireless HD Receiver
CV6620 x 1

Base x 1

HDMI Cable x 1

Power Supply
(5V/2A) x 1

WHDI Remote Control x1
(CV6620W/ CV6620WD/
CV6620WHD)

* Mini USB to USB female x 1
(OPTIONAL)

Note: The WHDI remote control is standard accessories of model CV6620W, CV6620WD, CV6620WH, CV6620WHD which support WHDI software function, and USB cable is the optional accessories of model CV6620H and CV6620WHD.

STICK Packing List

TX:CB8801

Wireless HD
Transmitter
CB8801 x 1

USB Cable
x 1

* HDMI to Mini HDMI
(OPTIONAL)

* HDMI Adapter
(OPTION)

*Adapter
5V/1A
(OPTION)

TX:CB8808

Wireless HD
Transmitter
CB8808 x 1

USB Cable
x 1

Audio Cable
x 1

VGA Adapter
x 1

*Adapter
5V/1A
(OPTIONAL)

RX:CB3801

Wireless HD Receiver
CB3801 x 1

Bracketx 1

HDMI Cable x 1

IR Remote Extension
Receiver x 1

Power Supply
(5V/2A) x 1

AD Adapter
x 1

WHDI Remote Control x1
(CB3801W / CB3801WH/
CB3801WD/CB3801WHD)

* Mini USB to USB female x 1
(OPTIONAL)

Note: Mini HDMI adaptor and power supply are the optional accessories, please consult the supplier before your purchase.

HUB Packing List

TX: CB2601

Wireless HD Transmitter
CB2601 x 1

Base x 1

IR Remote Extension
Connector X 1

Audio Cable
x 1

Power Supply
(5V/2A) x 1

* Mini USB to USB female x 1
(OPTIONAL)

* Please take all the actual accessories as the standard.

Interface Introduction

Transmitter Interface Introduction

CV6608

Wireless HD Transmitter
Model: CV6608
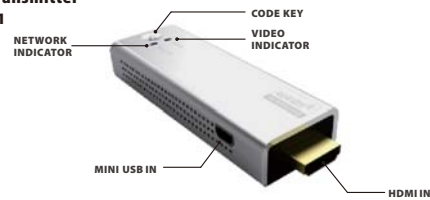
NETWORK INDICATOR
VIDEO INDICATOR
CODE KEY
IR slot
HDMI IN
DC IN

CB8801

Wireless HD Transmitter
Model: CB8801

CODE KEY
VIDEO INDICATOR
NETWORK INDICATOR
MINI USB IN
HDMI IN

CB8808

Wireless HD Transmitter
Model: CB8808
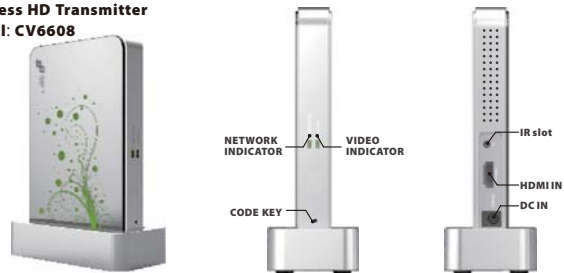
CODE KEY
VIDEO INDICATOR
NETWORK INDICATOR
MINI USB IN
AUDIO IN
VGA IN

CB2601

Wireless HD Transmitter
Model: CB2601

NETWORK INDICATOR
VGA 2 INDICATOR
VIDEO INDICATOR
HDMI 1 INDICATOR
HDMI OUT
MINI USB IN
CODE KEY
VGA IN
AUDIO IN
IR
HDMI IN
DC IN
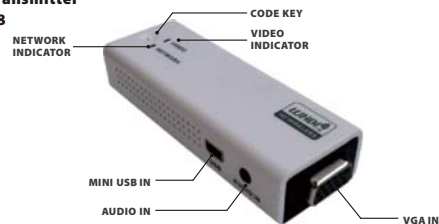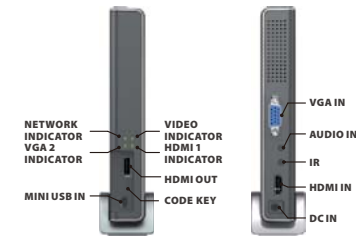
1. DC IN
   Connect this port to 5V/2A power adapter(spec: 5.5mm, ⊖─⊜─⊕ DC 5V).
2. MINI USB INPUT PORT
   connect Mini USB input port to the computer's USB port or the 5V/1A power
   adapter (optional) by the USB cable for power supplying.
   (Note:CB2601 do not support power supplying through mini USB)
 * HID Keyboard/Mouse Remote Control function is supported when connected the
   mini USB input port to the computer.
3. HDMI IN
   Connect to the HDMI Output port of a HD AV source device.
4. VGA IN
   Connect to the VGA port of computer.
5. AUDIO IN
   Connect to the audio output port of computer by the audio cable.
6. IR SLOT
   Remote control function is available when the supplied IR remote extension
   connector is connected to IR out port.
7. CODE KEY
   Code Key Function: press the code key for 5 seconds , the transmitter will turn into
   the code matching process.
   CB2601: Switch VGA/HDMI input source through pressing code matching key shortly.
8. NETWORK INDICATOR
   CV6608/CV2601
   On: The wireless network connection between transmitter and receiver
                        is successful .
   Off:The wireless network connection between transmitter and receiver
                        is failed .
   Flash Rapidly:The device is faulty.

CB8801/CB8808
On: The wireless network connection between transmitter and receiver is successful .
Flash Slowly: Transmitter is ready for connecting.
Flash Rapidly: The device is faulty.
9. VIDEO INDICATOR
On: The HD AV source is connected successfully.
Off: The HD AV source is failed to connect.
10. HDMI INDICATOR
ON:HDMI input is selected currently.
OFF:HDMI input is not selected currently.
11. VGA INDICATOR
ON: VGA input is selected currently.
OFF: VGA input is not selected currently.
12. HDMI OUT
HDMI out port supports loop out function, it is to connect to a high definition
display devices (HDTV, projector) when using.
Note: The extended function which marked in * requires hardware supporting, as to
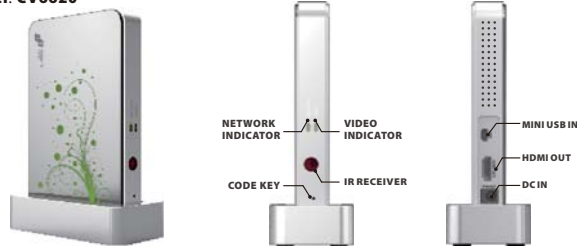more detailed information, please refer to the operation instructions of HID Keyboard/
Mouse Remote Control function on P23.

Receiver Interface Introduction

CV6620

Wireless HD Receiver
Model: **CV6620**

NETWORK INDICATOR   VIDEO INDICATOR   MINI USB IN

HDMI OUT

CODE KEY   IR RECEIVER   DC IN

CB3801

Wireless HD Receiver
Model: **CB3801**

CODE KEY

VIDEO INDICATOR

NETWORK INDICATOR

IR IN

MINI USB IN

DC IN   HDMI IN

1. DC IN
Connect this port to 5V/2A power adapter (spec: 5.5mm, $\ominus\!-\!\!\mathbb{C}\!-\!\!\oplus$ DC 5V).
2. HDMI IN
Connect to HDMI Output of a HD display devices (HDTV, projector).
3. MINI USB INPUT PORT
 * HID Remote Control function is supported when connected the mini USB input port
to the Mouse or keyboard.
Note: MINI USB port do not support power supply
4. CODE KEY
Code Key Function: press the code key for 5 seconds , the receiver will turn into the
code matching process.
(It needs to use remote control to match code under WHDI software mode)
5. NETWORK STATUS INDICATOR
CV6620
On:The wireless network connection between transmitter and receiver is successful .
Off: The wireless network connection between transmitter and receiver is failed.
Flash:The device is faulty
CV3801
On:The wireless network connection between transmitter and receiver is successful .
Flash slowly: Transmitter is ready for connecting.
Flash rapidly: The device is faulty.
6. VIDEO INDICATOR
On: The video source is connected successfully.
Off: The video source is failed to connect.
7. IR SENSOR(RECEIVING) WINDOW
The remote control is aligned to the IR sensor window of receiver when using.
Note: The extended function which marked in * requires hardware supporting, as to
more detailed information, please refer to the operation instructions of HID
Keyboard/Mouse Remote Control

Product Installation Instructions

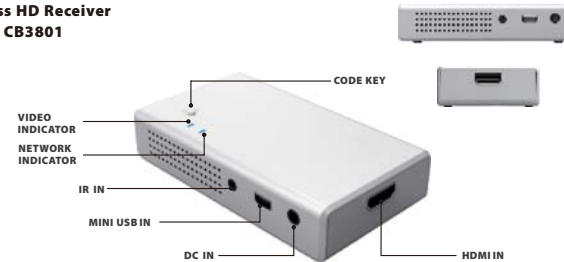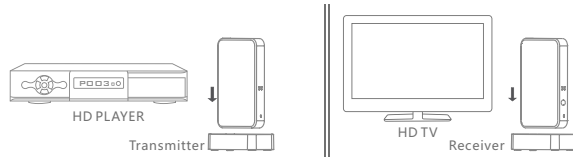### Connect to HD player

1. Install the transmitter and receiver respectively on base.
 *To avoid affecting the transmission distance and image effect, please do not place any article on or beside the transmitter.

HD PLAYER

Transmitter

HD TV Receiver

2. Connect the transmitter with player by the HDMI cable.
3. Plug the IR extension cable into the IR Out jack of transmitter, place the IR remote extension connector in front of player's IR receiving window.
4. Power on transmitter and turn on the HD player.

HDMI OUT

HDMI cable

HDMI cable

HD PLAYER

IR remote extension connector

Power supply
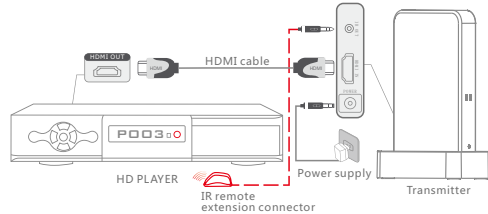
Transmitter

5. Connect the receiver with HDTV / *Projector* by HDMI Cable.
6. Power on HDTV and receiver. When the transmitter and receiver are properly connected and the network has been connected, OSD information on TV screen will be prompted as: " NETWORK   CONNECTING..."

RX:1.x.xx

1920x1080P   Freq:5xxx

NETWORK CONNECTING...

HDMI cable

HD TV

Power supply
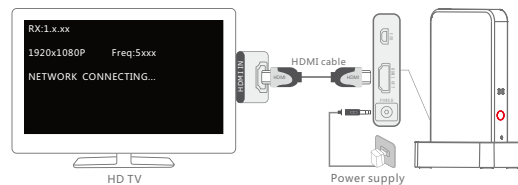
7. Wait for 15 to 25 seconds, the network and video indicators will turn on, after that, the video connection is successful. TV screen display player's broadcasting content and OSD information on TV screen will be prompted as "NETWORK CONNECTED, VIDEO CONNECTED"

HD PLAYER

IR remote extension connector Transmitter

RX:1.x.xx   TX:1.x.xx

1920x1080P   Freq:5xxx

NETWORK CONNECTED.   VIDEO CONNECTED.

HDTV Receiver

8. Use HD player's remote control at TV's side to control HD player
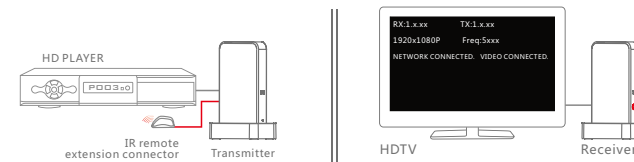
HD TV Receiver Remote controler
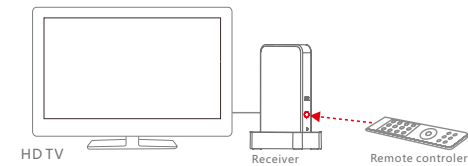
How to connect to PC

1.CB8808 should be connected with the VGA port through the VGA adapter.
2.Connect CB8801/CB8808 to Laptop/PC USB port by the USB cable; connect the Audio In port of transmitter with Audio Out port of Laptop/PC by the audio cable.

TX:CB8801 HDMI Interface

Transmitter

HDMI

USB cable

USB

Laptop

TX:CB8808
VGA Interface
Transmitter
VGA adapter
Audio cable
USB cable
Laptop
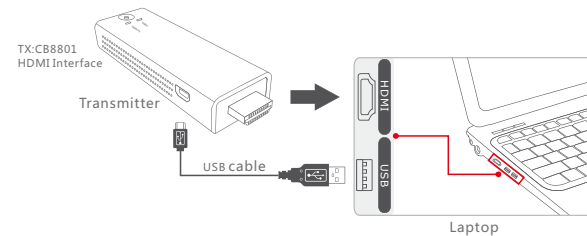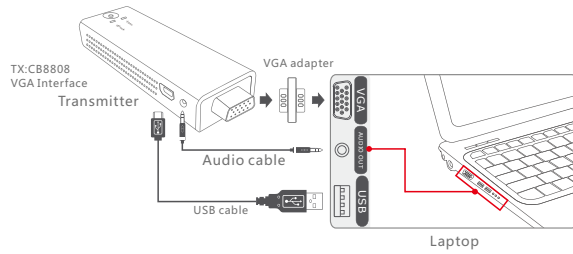
3. Connect CV6620 with the projector(HD TV)by HDMI cable.

HD TV

Projecter

HDMI cable

Power supply
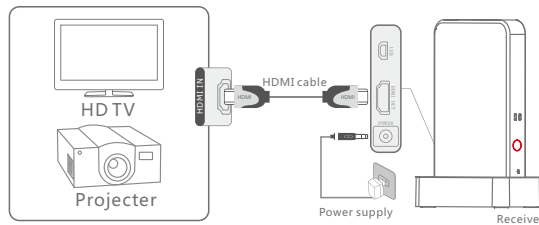
Receiver

4.Power on projector(HDTV) and receiver. When the transmitter and receiver are properly connected and the network has been connected, OSD information on projector screen will be prompted as: "NETWORK CONNECTING ..."

RX:1.x.xx

1920x1080P   Freq:5xxx

NETWORK CONNECTING ...
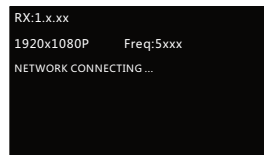
OSD

5. Wait for 15 to 25 seconds, the network and video indicators will turn on , the video connection is successful. OSD information on projector (HDTV) screen will be prompted as "NETWORK CONNECTED, VIDEO CONNECTED" and display video source content of PC/ Laptop's desktop.

RX:1.x.xx   TX:1.x.xx
1920x1080P   Freq:5xxx
NETWORK CONNECTED.   VIDEO CONNECTED.

HDTV

6. If the wireless network status indicator turns on, but this video status indicator doesn't turn on, please set the computer as "Copy main display" or "Extended the main display".(please refer to P28)

CB2601 Loop Output Installation Instruction:

1. Connect the VGA port of CB2601 to VGA port of the laptop device by the VGA cable and connect the Audio In port of transmitter with Audio Out port of laptop by audio cable.
2. Connect HDMI port of CB2601 with HD player by HDMI cable, plug the IR extension cable into the IR slot jack of transmitter, place it in the front of player's IR receiving window.

VGA cable

Audio cable

Laptop

Transmitter   Power supply   IR remote
extension connector

HD Player
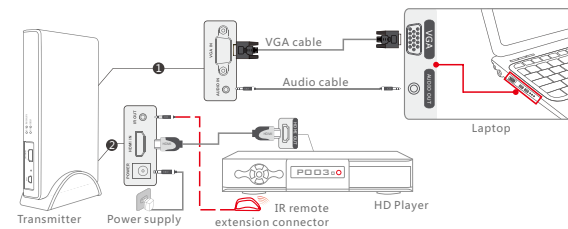
3. Connect "HDMI OUT" port on CB2601's front panel to the HDTV1 by the HDMI cable, the TV screen will show the content of default input source. Switch VGA / HDMI input source by pressing code matching key shortly.

HDMI cable
HDMI OUT
USB
1.HDMI In
2.VGA In
Switch VGA / HDMI input
HD TV
Transmitter
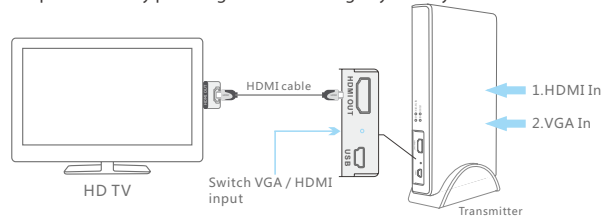
4. Connect the the receiver to tne HDTV2 by HDMI cable. Power on HDTV and receiver. When the transmitter and receiver are properly connected and the network has been connected, OSD information on TV screen will be prompted as:"NETWORK CONNECTING ..."

RX:1.x.xx
1920x1080P   Freq:5xxx
NETWORK CONNECTING...

HDMI OUT
HDMI cable
HDTV
Power supply
Receiver
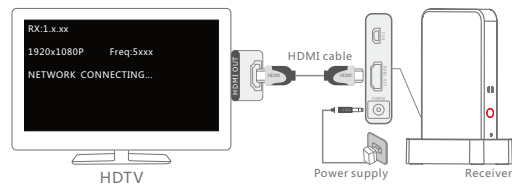
5. Wait for 15 to 25 seconds, the network and video indicator will turn on, that is the video connection is successful. OSD information on (projector) HDTV screen will be prompted as "NETWORK CONNECTED, VIDEO CONNECTED", and then screen show the content of default input source. The program is show on TV1 and TV2 simultaneously.

VGA
Laptop
HDMI
HD TV 1
Transmitter
HD Player
Receiver
Remote control
HD TV 2
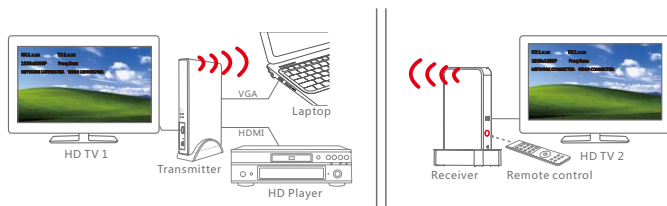
Installation instructions for CB3801

1. Screw CB3801 with the bracket, rotate the screw clockwise until fix it, adjust the receiver up and down, then fix it with proper angle, and twist the wrench clockwise to fix the direction of receiver.

90°
360°
Barcket
VIDEO   NETWORK
Barcket

2.Connect the CB3801 with monitor by HDMI cable ,plug the IR cable into the IR jack of receiver and use the supplied double sided tape to fix the IR head in the front side of the monitor. Plug into the power supply of receiver, the OSD information on TV screen will be prompted as:"Connecting to CB3801"

Connecting to CB3801...

Receiver
HDMI IN
Power supply
IR Receiver
HD TV
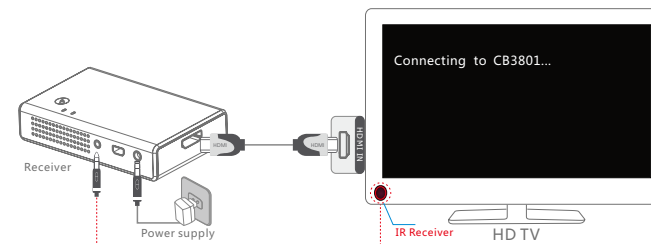
3. Wait for 15 to 25 seconds, the network and video indicators will turn on, the video connection is successful. OSD information on projector (HDTV) screen will be prompted as "Connected to CB3801" and display video source content of PC/ Laptop.

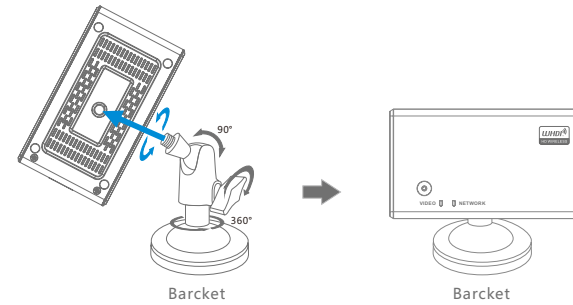Notice: As to the specific model of transmitter's installation steps, please refer to the product installation instruction in this chapter.

Transmitter

Connected to CB3801

Receiver

HD TV
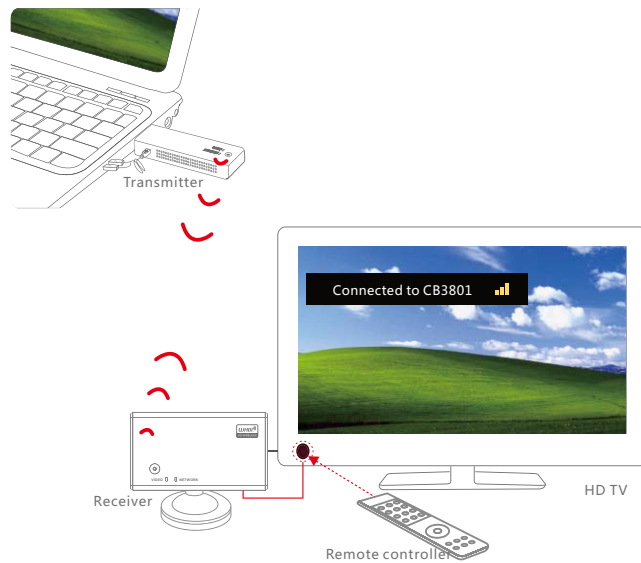
Remote controller

Basic Function

IR Remote Extension Connector Instructions
Use HD player's remote control at TV's side to control HD player.
Operating Instructions
1.Plug the IR extension cable into the slot out jack of transmitter, place the IR remote extension connector in front of the player.

HD Player

IR remote extension connector

Transmitter

Receiver

Remote control

HD TV
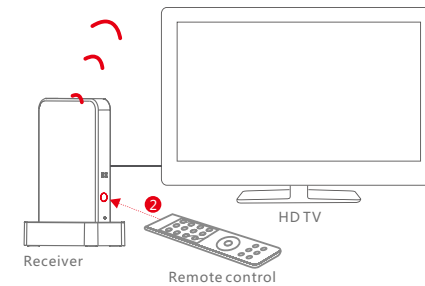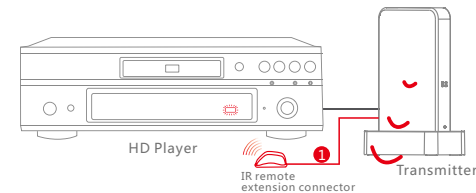
2.When the system is working properly, users can use HD player's remote control at TV side to control HD player; it should be aligned to IR sensor window of receiver.
Remarks
(1) Remote extension connector only supports 38KHz remote's signal protocol.
(2) Please make sure the transmitter and receiver are located in the effective reception distance and range, if they are located out of the range, the signal wouldn't be received.

Unicast (point-to-point) Code Matching Procedures

Code matching are defult set in factory ,user do not need to repeat this operation.
Operation of re-matching code for TX and RX
1. Power on transmitter and receiver.
2. Use tweezers or paper clips to press the code key of transmitter and receiver for
   5 seconds and then loosen from the code key.
3. Wait for 30 to 60 seconds, the network indicators of transmitter and receiver will
   turn on, after that, the code matching is successful. If code matching is not
   successful, please repeat the code matching procedures.

❶

Press the code keys
simultaneously for
3~5 Sec

RX:CV6620   TX:CV6608

❷

Press the code keys
simultaneously for
3~5 Sec

RX:CV6620   TX:CB8801/CB8808

❸

Press the code keys
simultaneously for
3~5 Sec

RX:CV6620   TX:CB2601

WHDI Function

*Product model suffix with a "W" means supporting WHDI function.
 Supported model: CV6608W, CV6620W, CB8801W, CB8808W, CB3801,CB2601W

WHDI (Multipoint-to-Multipoint/Multi-cast) function means that a receiver can be
connected to many transmitters respectively, and the transmitter can also be
connected to different receivers respectively. Users can choose to connect to any
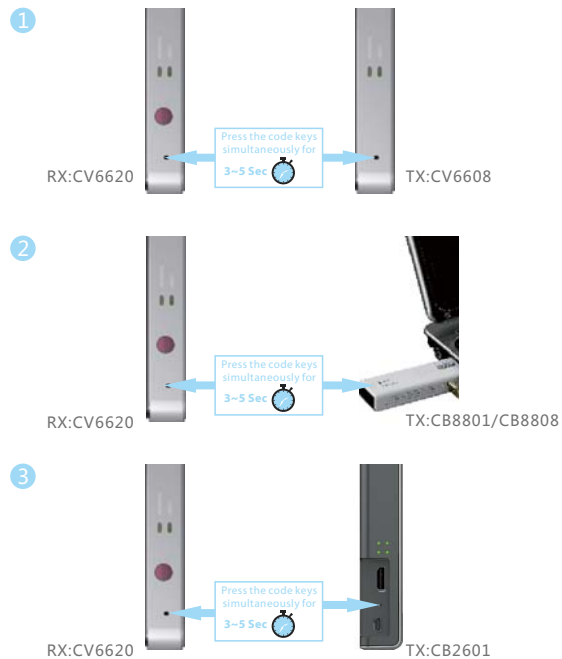different transmitter by WHDI remote control at receiver's side.(HD video source)

Example Applications of WHDI Function (3 transmitters and 2 receivers)
1. Match code of 2 receivers with 3 transmitters respectively.
2. Connect transmitter to different HD device source respectively by HDMI cable
   and power on the devices.
   (As to the device installation instruction, please refer to the installation
   instructions for specific model of product on P09)

TX1:CV6608W
DVB

TX2:CB8801W
Stick0203

TX3:CV6608W
SONY BD

3. Connect 2 receivers to HDTV respectively by HDMI cable.

RX1:CV6620W   RX2:CB3801W
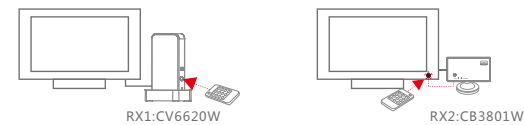
4. Power on receiver and HDTV, the receiver will automatically connecting to
   the transmitter which was connected with the receiver successfully last time,
   the OSD information on TV screen will be prompted as the following picture:

Connecting to Stick0203...

OSD Display

5. Wait for 15 to 25 seconds, the network and video indicators will turn on, the OSD information on TV screen will be prompted as the following picture and the disappear in 3 seconds.

Connected to Stick0203
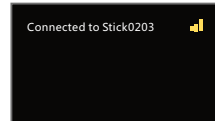
6. You can use WHDI remote control to select different transmitter (player)

TX1:CV6608W DVB

HDTV1

RX1:CV6620W

TX2:CB8801W Stick0203

HDTV2

RX2:CV3801W

TX3:CB2601W SONY BD

WHDI Remote Control Operation Instruction

1 .MENU
2 .EXIT
4. Direction key
5. OK
6. DELETE
7. ADD
9. 1st Video source
10. 2nd Video source
3. SOURCE
8. GUEST
11. 3nd Video source

WHDI Remote Control

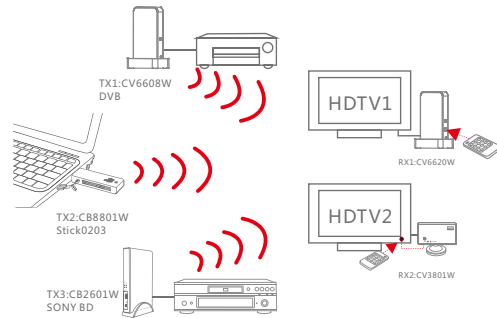|	
	1. Enter the main menu
	2. Return to previous menu
	3. ENTER [Select Video Source]
	4. Operate for up, down, left and right directions on the menu screen
	5. Press OK to confirm the operation
	6. Enter [Remove Video Source]
	7. Enter [Add New Video Source]
	8. System powering down
	9. Connect to 1st Video source
	10. Connect to 2nd Video source
	11. Connect to 3nd Video source

Add New Video Source (WHDI Product Code Matching)
WHDI supports multiple transmitters with one receiver. You can add additional transmitters as refer to the following steps:
1. Press [MENU] key of the WHDI remote control to enter the main menu, press direction key to enter [Add new Video Source] or press [Add] key to add video source. Please make sure that the remote control is pointing to receiver's IR sensor window at the operation process.

①

Setup
Add new Video Source
Remove Video Source
Modify Video Source

WHDI Remote Control

Receiver
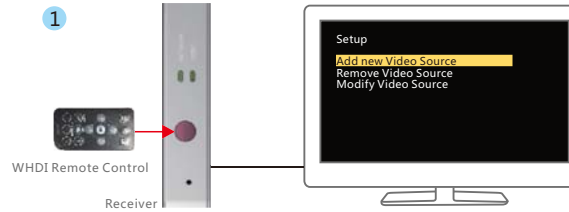
2. Press the code key of transmitter for 3~5 seconds and then loosen from the code key, OSD information will be prompted as "Please Activate Registration On Transmitter Unit".

②

Transmitter

Press the code keys simultaneously for
3~5 Sec

Transmitter

Adding Stick0203
Press OK to continue or Exit to cancel

3. Press [OK] key to enter the code matching process.
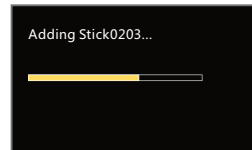
4. The code matching will be completed after about 30 seconds, and the video source will be connected to automatically.

Adding Stick0203...

Connected to Stick0203
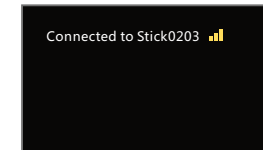
5. If there need to add more new video source, please repeat the above 1 to 4 steps.

Select Video Source

1. Press [Source] key, the list of video sources will be displayed on screen.

```
Select Video Source

Stick0203
SONY BD
DVB

Setup
```
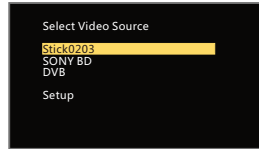
2. Use [UP]/[DOWN] direction keys to choose a video source, press [OK] key to confirm connecting to the one selected.

```
Connected to Stick0203         ▪▪▪
```

Quick Connect to Video Source

1. Press [1] key of input devices to connect directly to the 1st video source in the source list; Press [2]/[3] key to connect directly to 2nd/3rd video source in the source list.

WHDI Remote Control

Remove Video Source

1. Choose [Remove Video Source] on the main menu or press [DELETE] key to quick enter [Remove Video Source] menu.

```
Setup

Add new Video Source
Remove Video Source
Modify Video Source
Disconnect Wireless Link
```

2. Select the video source wanted be deleted from the video source list.

```
Choose Source To Remove

Stick0203
```

3. press [DELETE] key

```
Removing Stick0203
Press OK to continue or Exit to cancel
```
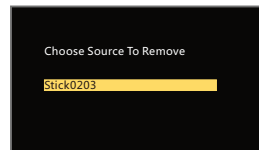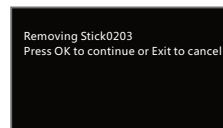
4. Press [ok] to Remove

```
Removing Stick0203..
```
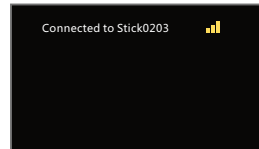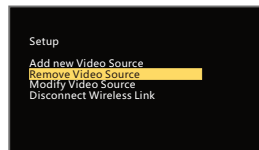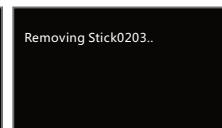
5. The video source is removed, return to main menu.

```
Setup

Add new Video Source
Remove Video Source
Modify Video Source
```
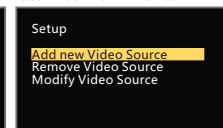
Rename Video Source

1. Press [MENU] key and choose "Modify Video Source " from main menu.

```
Setup

Add new Video Source
Remove Video Source
Modify Video Source
```

2. Select the video source needed renaming from the video source list and press [OK] to confirm.

```
Choose Source To Rename

Stick0203
SONY BD
DVB
```
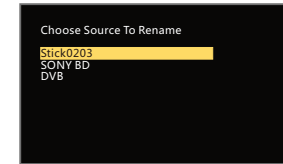
3. Use [LEFT][RIGHT]direction keys to change cursor position Use [UP][DOWN] to modify the content of the character

```
Rename Video Source

Stick0203
```
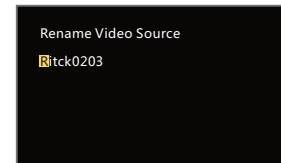
4. Press [OK] to save the modified name.

```
Select Video Source

Stick0203
SONY BD
DVB

Setup
```
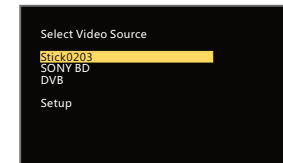
Power Down Mode

1. After pressing [GUEST] key, system will enter power down mode.
2. Press [GUEST] again to resume work.

```
Powering Down..
```
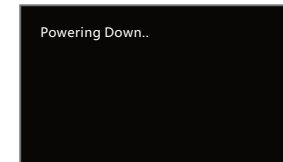
Standby Mode

1. When receiver disconnect from transmitter and there is not any operation to run, the system will turn into Standby Mode, and the OSD information will be prompted as "Wireless Off".
2. Press [SOURCE] or [MENU] key to resume work.

```
Wireless Off
```

HID Remote Control Operation Instruction

* Product model suffix with a "H" means supporting HID function.
  Supported model: CV6620H, CB8801H, CB8808H, ,CB3801H,CB2601H

Function Instruction

HID Keyboard/Mouse Remote Control function support users to use keyboard/mouse at receiver(Monitor) side to control the PC at transmitter side.

Note: Since one USB port in receiver can only support one wired keyboard or mouse at a time, there recommend to use the wireless keyboard/mouse set which share one USB wireless receiver connector for this HID function supporting.

STICK

Laptop

Wireless Keyboard/Mouse   USB wireless receiver
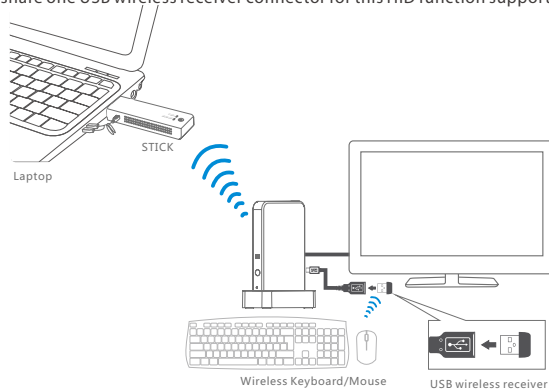
Application of HID Function

1. Please make sure that both of the transmitter and receiver can support HID function.
2. Connect the Transmitter with PC's HDMI port. (CB8808 should be connected with the VGA port through the VGA adaptor)
   (Please refer to the installation step of Laptop connecting on P10 to P12.）
3. Connect the Transmitter with PC's USB port by the USB cable.
4. At this time, the PC screen will be prompted to install HID driver . As to the operation step, please refer to the latter part of this chapter.
5. Connect Receiver to HDTV/Projector by HDMI cable, power on HDTV and receiver.
6. Wait for 15 to 25 seconds, the network and video indicators of receiver will be turn on, TV screen will display video source content of PC/Laptop..
7. Connect the USB wireless receiver connector of wireless keyboard/mouse set or wired Mouse/keyboard with Mini USB In port of receiver .
8. After HID driver installed, the wired/wireless keyboard/mouse will be available to use to remote control the PC/Laptop from monitor's side.

Installation of HID Driver

1. Run the driver installation package , at the first installation, the language selection dialog box will pop up as follows:

2. Choose your language and click "OK", enter the following installation interface, click "Next" to enter the next step.

3. Click "Install" to start installation
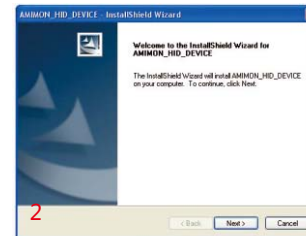
4. Since the driver is not certified by Microsoft, so the following dialog box may pop up several times during installation process, please click "Continue Anyway" to install.
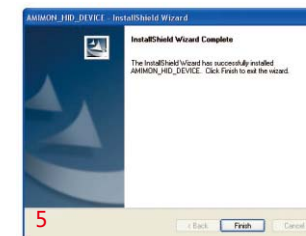
5. Click "Finish" to complete the installation.

3D Video Transmission

* Product model suffix with a "D" means supporting 3D video transmission function.
  Supported model: CV6620D, CV6608D, CB8801D, CB3801D,CB2601D

Function Instruction
3D Video Transmission requires transmitter and receiver's hardware supporting of wireless transmission for 3D audio and video signal.

Function Application
1.Please make sure that both of the transmitter and receiver with the Model No. can support 3D video transmission function.
2. Please make sure both of the player and monitor can support 3D video.

Transmitter   Receiver   3D Player   3D TV

3. Connect the transmitter with the player by HDMI cable.

HDMI cable

HDMI cable

Player

IR remote
extension connector   Transmitter

Power supply
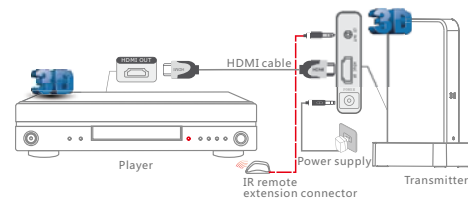
4. Connect the receiver with the TV by HDMI cable.

HDMI cable

3D TV

Power supply   Receiver   Remote Control
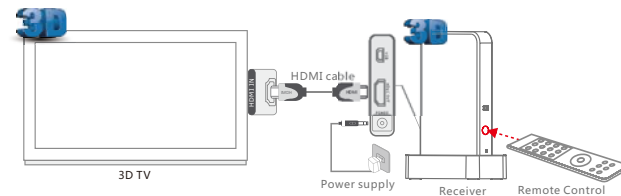
5. Power on Player, Transmitter, TV and receiver
6. The network indicator of receiver will turn on in 15~25secs and 3D image will be displayed in TV.

3D Player   Transmitter

3D TV

Receiver

Note: The optional function of WHDI, HID, 3D can be combined with one another.
       E.g. CV6608WD, CB8801WHD, CB8808WH, CB2601WHD, CV6620WHD.

Appendix

OSD (On Screen Display)

1	RX:1.5.44 TX:1.5.44	4
2	1920*1080 Freq:5230	5
3	NETWORK CONNECTED. VIDEO CONNECTED.	6
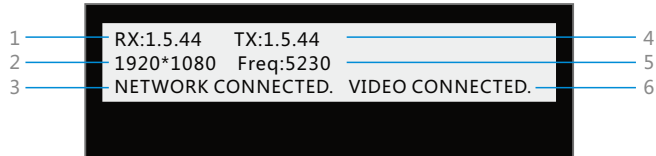
1. Receiver software version number;
2. Current video resolution;
3. Network connection status indicator:
   Network Connecting: Being in the process of network connecting;
   Network Connected: Network connection is successful.
4. Transmitter software version number;
   Only display when network connected and won't
   display when the network is not connected or
   disconnected from the network.

5. Working frequency:
   current wireless network frequency band
6. Video connection status indicator:
   Video Connecting: Being in the process of video connecting;
   Video Connected: Video connection is successful.
   Only display when network connected and won't
   display when the network is not connected or
   disconnected from the network.

OSD will hide automatically after 3 seconds under the circumstances the video connection is successful.

List of Supported HID Wireless Keyboard/Mouse Model

| Device Name	Device Type	Result
RAPOO 1800E	Mouse+Keyboard	OK
Lenovo KM4901	Mouse+Keyboard	OK
Fuhlen U79 2.4G	Mouse+Keyboard	OK
HP VK429PA#AB2	Mouse+Keyboard	OK
Lenovo N5901A	Mouse+Keyboard	OK
Lenovo Ultraslim Plus Wireless KM	Mouse+Keyboard	OK
PRIMAX Black Silk USB KB T1	Mouse+Keyboard	OK
Logitech MK250	Mouse+Keyboard	OK
Logitech MK260	Mouse+Keyboard	OK
Logitech M-BT96a	Mouse	OK
Logitech M-BJ58	Mouse	OK
A4TECH OP-220	Mouse	OK
Microsoft Wired Desktop 600	Mouse	OK
BETOP BTP-C033	Game Controller	OK
Logitech Gamepad F310	Game Controller	OK
BETOP BTP-C036	Game Controller	OK
Saitek CYBORY F.L.Y 5	Game Controller	OK

Graphic Card Setting

Windows 7 System

1. When the device is properly connected and the network has been connected, OSD
   information on display device screen will be prompted as:
   " NETWORK CONNECTED, VIDEO CONNECTING... ";
2. Right-click on the desktop and select "Screen resolution";
3. As the below picture shows, there will be two monitors named ①② in panel. If only
   monitor ① appeared, please click "Detect" or unplug and then plug PC's HDMI cable;
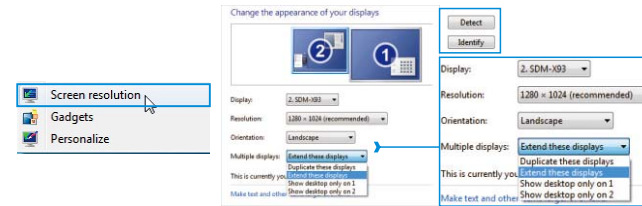
4. Select "Duplicate these displays" or "Extend these displays" in "Multiple displays"
   column, click "Apply";
5. When computer screen shown on the display device, click "Keep Changes" to complete
   the setup. Click "Resolution" option to change computer's output resolution. If you
   can't set the resolution of 1080P under "Duplicate these displays", please change to
   "Extend these displays".

Windows XP System (NVIDIA Graphic Card Series)

1. When the device is properly connected and the network has been connected, OSD
   information on display device screen will be prompted as:
   " NETWORK CONNECTED, VIDEO CONNECTING... ";
2. Right-click on the desktop and select "NVIDIA Control Panel";
3. Open the "NVIDIA Control Panel", select "Set up multiple displays", it will show
   the following interface:
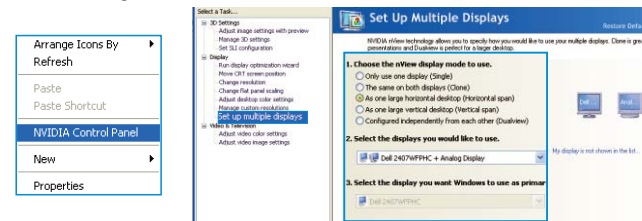
4. Select "The same on both displays (Clone) " or "Configured independently from each other (Dualview) ", click "Apply";
5. When computer screen shown on the display device, click "Yes" to save the setting.
6. As below picture show, select the "Change resolution" option, you can modify the computer output resolution as dragging the "Display Resolution" progress bar.
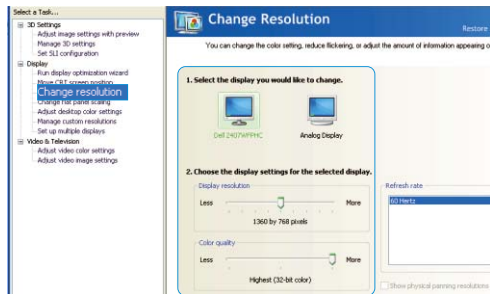
7. Open the Control Panel, run the "Sounds and Audio Devices" as follows: Click the "Audio" tab in the "Sounds and Audio Devices" properties card, change the "Default device" of "Sound playback" to "NVIDIA High Definition Audio", then click "OK" to complete the setup.
*8. This step is for HDMI audio output settings, you can skip this step if you are using VGA interface of HD transmitter.


Windows XP System (ATI Graphic Card Series)
1. When the device is properly connected and the network has been connected, OSD information on display device screen will be prompted as:
   " NETWORK CONNECTED, VIDEO CONNECTING... ";
2. Right-click the mouse on the desktop, select "Catalyst(TM) Control Center", open the ATI graphics settings;
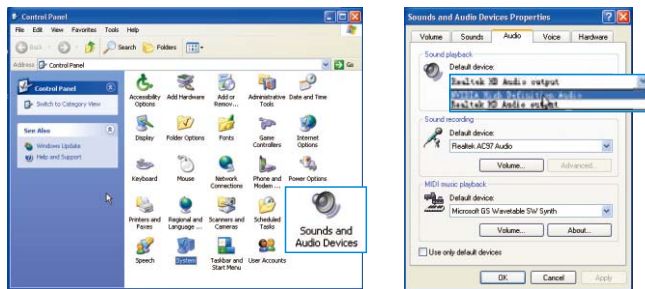3. Select "Displays Manager" which listed in the graphics settings as refer to follow picture:
4 .Below "Attached displays currently disabled", there will be a gray display in the display box, if no gray display appear, please right-click "Detect Displays" or unplug and then plug the HDMI cable;
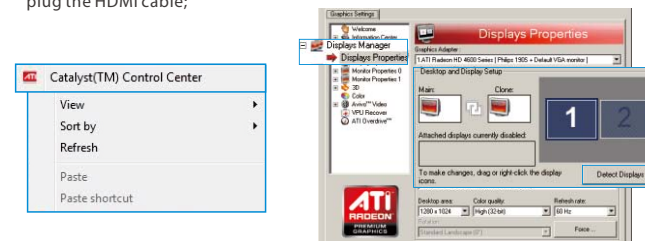
5. Right-click the gray display, select the "Extended Main onto HDTV" or "Clone Main with HDTV";
6. When the video image appears on the display screen, select "Yes" on the pop-up dialog box to save the settings;

7. Click the "Desktop Area" option, change the computer's output resolution;
8. Open the computer control panel, run the "Sounds and Audio Devices";
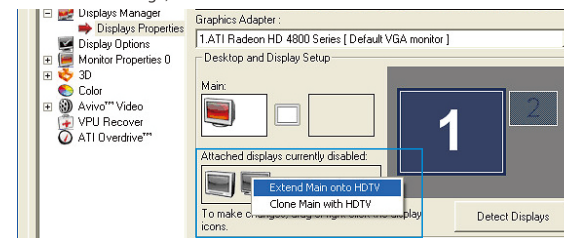*9. This step is for HDMI audio output settings, you can skip this step if you are using VGA interface of HD transmitter. Click the "Audio" tab in the "Sounds and Audio Devices " properties card, change the "Default device" of "Sound playback" to "ATI HD Audio rear output", then click "OK" to complete the setup.
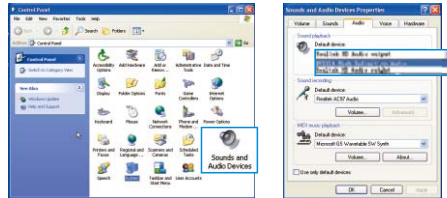
Windows XP System (INTEL Graphic Card Series)

1. Right-click the mouse on the desktop, select "Graphics Properties ..";
2. Select "Multiple Displays" in "Intel Graphics and Media Control Panel", change " Operating Mode" to "Clone Displays" or "Extended Desktop";

3. Click "Apply" and select "Yes" on the pop-up dialog box to save the settings;
4. Click the "Resolution" option in the "General Settings" tab, change the output resolution;
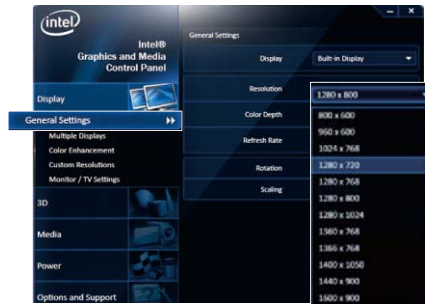
Indicator Description

Model	Indicator	Indicator Status	Working Status
TX:CV6608	Network Indicator	☀ ON ☀ OFF ☀ Flash Rapidly	— The transmitter is connected successfully in the wireless mode — The transmitter fails to be connected in the wireless mode — The device is abnormal
	Video Indicator	☀ ON ☀ OFF	— The video source is connected successfully — The video source fails to be connected
RX:CV6620	Network Indicator	☀ ON ☀ OFF ☀ Flash Rapidly	— The receiver is connected successfully in the wireless mode — The receive fails to be connected in the wireless mode — The device is abnormal
	Video Indicator	☀ ON ☀ OFF	— The display device is connected successfully — The display device fails to be connected
TX:CB2601	Network Indicator	☀ ON ☀ OFF ☀ Flash Rapidly	— The transmitter is connected successfully in the wireless mode — The transmitter fails to be connected in the wireless mode — The device is abnormal
	Video Indicator	☀ ON ☀ OFF	— The video source is connected successfully — The video source fails to be connected
	Video Input Indicator	☀ H1 ON ☀ V1OFF	— HDMI input is selected currently. ————
		☀ H1 OFF ☀ V1 ON	———— — VGA input is selected currently.
TX:CB8801	Network Indicator	☀ ON ☀ Flash Slowly ☀ Flash Rapidly	— The wireless network connection is successful between transmitter and receiver. — Transmitter is ready for connecting. — The device is abnormal.
TX:CB8808	Video Indicator	☀ ON ☀ OFF	— The display source is connected successfully — The display source fails to be connected

Model	Indicator	Indicator Status	Working Status
	Network Indicator	ON	— The wireless network connection is successful between transmitter and receiver.
		Flash Slowly	— Receiver is ready for connecting.
		Flash Rapidly	— The device is faulty.
	Video Indicator	ON	— The video source is connected successfully
		OFF	— The video source fails to be connected

▬ Product Specifications

Tramsmitter		CV6608	CB8801	CB8808	CB2601
	Transmission Frequency	5.15~5.25, 5.25~5.35, 5.47~5.725, 5.725~5.850 (GHz)			
	Frequency Stability	±10PPM			
	Bandwidth	Up to 40MHz			
	Standard Protocol	HDMI 1.3, HDCP 1.2			
	Receiving Sensitivity	≤-75dBm	≤-75dBm	≤-75dBm	≤-75dBm
	System Latency	≤1ms	≤1ms	≤1ms	≤1ms
	TX/RX channel	4TX / 1RX	2TX / 1RX	2TX / 1RX	4TX / 1RX
	Transmission Power	13 ±2dBm	13±2dBm	10 ±2dBm	12 ±2dBm
	Transmission Distance	≥30m	≥25m	≥25m	≥30m
	Power Supply	5V /2A	5V /1A	5V /1A	5V /2A
	Dimensions (W x D x H)	148 x 97 x 18 (mm)	98 x 29 x 14.5 (mm)	91.5 x 31 x 17.5 (mm)	160 x 95 x 25 (mm)

Receiver		CV6620	CB3801
	Transmission Frequency	5.15~5.25, 5.25~5.35, 5.47~5.725, 5.725~5.850 (GHz)	
	RF communication system	MIMO	
	Modulation mode	OFDM	
	Frequency stability	±10PPM	
	Bandwidth	Up to 40MHz	
	Standard Protocol	HDMI 1.3, HDCP 1.2	
	Transmission Power	15 ±2dBm	16 ±2dBm
	Receiving Sensitivity	≤-65dBm	≤-75dBm
	System latency	≤1ms	≤1ms
	TX/RX channel	5 RX /1TX	5 RX /1TX
	Transmission Distance	≥30m	≥30m (≥50m with CB8801)
	Power Supply	5V /2A	5V /2A
	Dimensions (W x D x H)	148 x 97 x 18 (mm)	99 x 56 x 20.5 (mm)
	Video Format Support	TV:1080p, 1080i, 720p, 576p, 480p PC:VGA(640X480), SVGA(800X600), XGA:(1024X768), SXGA(1280X1024)	
	Audio Format Support	PCM, DTS, DOCBY DIGITAL	
	IR Mode	38KHz	
(OPTIONAL)	3D Video Format Support	720P@50, 720P@59, 720P@60 1080P@23, 1080P@24	
	3D Standard Protocol	HDMI 1.4, HDCP 2.0	
	Operating Temperature	-30 - 55℃	
	Storage Temperature	-20℃ - 80℃	
	Operating Humidity	15~85%RH	

* Since the product's improving process, all the performance, design and specifications of our products are subject to minor change without prior notice.

Trouble Shooting

Possible Reasons:	Solutions:
Network connect failed, Please check the device is ready	
Transmitter is not electrified.	Power on transmitter.
Transmitter or receiver is not placed erectly.	Place the TX or RX onto the base and replace them erectly.
The transmitter and receiver are too far away.	Move the receiver closer to the transmitter.
Several solid wall partition TX and RX.	Reduce the number of solid walls between TX and RX.
There are too many obstacles between TX and RX.	Move the receiver closer to the transmitter.
Haven't matched the code of TX and RX.	Rematch the code of transmitter and receiver.
There is other transmitter which is under working condition near the receiver.	Power off other independent transmitter, place the receiver away from the other sources of interference.
Video connect failed,Please check the device is ready	
Transmitter and player are not connected.	Connect the transmitter with player by the HDMI cable
Player is not turned on.	Power on player.
Haven't switched player to HDMI output.	Switch player to HDMI output.
Poor contact of transmitter's HDMI cable	Unplug and then plug the HDMI cable of the transmitter
Abnormal working of transmitter	Reboot the transmitter.
There are problems with HDMI cable between TX and player.	Change the HDMI cable.
Player don't support the output resolution format.	Switch the player's output resolution to other modes.
The TV don't support HDCP authentication when using Blue-ray player.	Replaced with HDCP-certified TV.
No signals are input to TV	
Receiver is not turned on.	Power on receiver.
Receiver and TV are not connected.	Connect the receiver and TV by the HDMI cable.
Haven't switched TV to HDMI input.	Switch TV to HDMI input.
Poor contact of receiver or TV's HDMI cable	Unplug and then plug the HDMI cable of the receiver or TV.
TV turn into standby mode	Switch the TV to normal operation mode.
Abnormal working of receiver.	Reboot the receiver.
No image appear on TV	
Poor contact of receiver or TV's HDMI cable.	Re-plug the HDMI cable of the receiver or TV
Abnormal working of receiver	Reboot the receiver
Receiver failure	Please contact your distributor
Abnormal color on TV screen	
Poor contact of receiver or TV's HDMI cable.	Unplug and then plug the HDMI cable of the receiver or TV.
Poor contact of transmitter or player's HDMI cable.	Unplug and then plug the HDMI cable of the TX and player.
Abnormal working of transmitter or receiver	Reboot the transmitter and receiver.

(Left side category labels: OSD Information on TV, Image)

Possible Reasons:	Solutions:
Many noises or mosaics on the image displayed on TV	
Transmitter or receiver is not placed erectly.	Place the TX or RX onto the base and maintain them erectly.
The transmitter and receiver are out of effect range.	Move the receiver closer to the transmitter.
Several solid wall partition TX and RX.	Reduce the number of solid walls between TX and RX.
There are too many obstacles between TX and RX.	Move the receiver closer to the transmitter.
Images appear on TV normally but no voice is output.	
Player or TV is muted.	Open the volume of player or TV.
Player or TV's volume is too low.	Turn up the volume of player or TV.
Current player don't support the output audio format.	Switch the output audio format of player.
Abnormal working of transmitter or receiver	Reboot the transmitter and receiver.
Can't use the IR extended function to remote control the player.	
The transmitter are not connected with the IR remote extension connector.	Plug the IR extension cable into the IR Out jack of transmitter, place the IR remote extension connector in front of IR windows area of player.
IR remote extension connector is misalignment to the IR sensor window of player.	Place the IR remote extension connector in the front of player and make sure the IR remote extension connector is aligned to the IR sensor window of player.
The remote control is not aligned to the IR sensor window of receiver when using.	Make sure the remote control is aligned to the IR sensor window of receiver when using.
A few special type of players do not support infrared remote control.	IR remote extension connector only supports 38KHz remote's signal protocol.
Can't use HID remote control function	
Haven't installed the HID driver.	Please refer to the HID driver's installation step in P24.
Transmitter's USB port is not connected with the computer's USB port.	Make sure the transmitter's USB port is connected with the computer's USB port.
The adopted keyboard/mouse are not supported.	Refer to the List of Supported HID Accessories Model in P27.
The keyboard/Mouse's operation progress is not continuous.	
The transmitter and receiver are too far away.	Move the receiver closer to the transmitter.
Abnormal working of transmitter or receiver	Reboot the transmitter and receiver.
Indicator status of wireless connection is off.	
Receiver is not electrified.	Power on receiver.
Transmitter or receiver are not placed erectly.	Place the machine onto the base and maintain them erectly.
The TX and RX are too far away from each other.	Move the receiver closer to the transmitter.

(Right side category labels: Image, Audio, IR Remote Control, HID Function, Transmitter)

Possible Reasons:	Solutions:
Several solid walls partition transmitter and receiver.	Reduce the number of solid walls between TX and RX.
There are too many obstacles between TX and RX.	Move the receiver closer to the transmitter.
Haven't matched the code of TX and RX.	Rematch the code of transmitter and receiver.
Transmitter or receiver failure	Please contact your distributor.
Indicator status of wireless connection is on, but video Indicator is off.	
Receiver and TV are not connected.	Connect the transmitter with player by the HDMI cable.
Player is not turned on.	Power on player.
Haven't switched player to HDMI output.	Switch player to HDMI output.
Poor contact of transmitter or player's HDMI cable.	Unplug and then plug the HDMI cable of the TX or player.
There are problems with HDMI cable between TX and player.	Change the HDMI cable
Indicator status of wireless connection is flash rapidly.	
Abnormal working of transmitter	Reboot the transmitter.
Transmitter failure	Please contact your distributor.
Indicator status of wireless connection is off.	
Please refer to OSD information: Network connect failed, please check the device is ready.	
Indicator status of wireless connection is on, but video indicator is off.	
Please refer to OSD information: video connect failed, Please check the device is ready	
Indicator status of wireless connection is flash rapidly.	
Abnormal working of receiver.	Reboot the receiver.
Receiver failure	Please contact your distributor.

(The left vertical labels read "Transmitter" for the upper section and "Receiver" for the lower section.)

FCC 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. To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example use only shielded interface cables when connecting to computer or peripheral devices).

FCC Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment 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, includinginterference that may cause undesired operation.

Cautions!

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modificationscould void the user authority to operate the equipment.