

Bar code

USER MANUAL

Read the manual carefully and ensure you have fully understood its contents before operating this device for the first time.

Declaration

Declaration

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【Statement】

- The pictures and instructions in this user manual are for reference only, and may be different from the actual product. Please subject to the actual product. (This statement is throughout this User Manual)
- Quality upgrades, product design and specifications are subject to change without notice.
- The software content service applicable to this product depends on the third party provider, and some software may not be used due to network, region, service cycle and other problems, which has nothing to do with the product quality. Please contact the third party provider for relevant details.

Important Safety Precautions



This symbol alerts user about the presence of a dangerous voltage not isolated inside the product which can be sufficiently powerful to constitute a risk of electrocution.




This symbol alerts user about the presence of important operating instructions and maintenance in the document enclosed in the package.



ATTENTION
RISK OF SHOCK
ELECTRIC



Do not open the back cover.
In no case the user is allowed to operate inside the device.
Only a qualified technician is entitled to operate.

 AC voltage: This symbol indicates that the rated voltage marked with the symbol is AC voltage.



Class I product: This symbol indicates that it requires a safety connection of protective earthing (ground).

Disposal of Used Electrical & Electronic Equipment



Packaging and electrical goods should be recycled appropriately, and not treated as household waste. Please dispose of this equipment at your applicable collection point for the recycling of electrical & electronic equipment waste. By ensuring the correct disposal of this product, you will help prevent potentially hazardous to the environment and to human health, which could otherwise be caused by unsuitable waste handling of this product. The recycling of materials will help conserve natural resources. Please do not therefore dispose of your old electrical and electronic equipment with your household waste. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

Important Safety Precautions

Safeguards

Please read the following safeguards for your device and retain for future reference. Always follow all warnings and instructions marked on the device.

1. A note about safety and operating instructions

Read and follow all safety and operating instructions, and retain them safely for future reference.

2. Heed Warnings

Adhere to all warnings on the appliance and in the operating instructions.

3. Cleaning

Unplug the device from the wall outlet before cleaning. Do not use liquid, abrasive, or aerosol cleaners. Cleaners can permanently damage the cabinet and screen. Use a lightly dampened cloth for cleaning.

4. Water and Moisture

Avoid dripping or splashing of liquids onto the product. Objects filled with liquids, such as vases, should not be placed on the product.

5. Ventilation

Slots and openings in the cabinet are provided for ventilation, to ensure reliable operation of the device and to protect it from overheating. Do not cover the ventilation openings in the cabinet and never place the set in a confined space such as built-in cabinet unless proper ventilation is provided. Leave a minimum 10cm gap all around the unit.

6. Power Source

This device should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your appliance dealer or local power company.

7. Power-Cord Protection

Power- supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plug, wall outlets, and the point where they exit from the device. MAIN plug is used as the disconnect device, the disconnect device shall remain readily operable.

8. Lightning

For added protection for this device during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the cable system. This will prevent damage to the device due to lightning or power-line surge.

9. Overloading

Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

10. Object and Liquid Entry

Never push objects of any kind into this device through openings as they may touch dangerous voltage points or short-out parts that could result in fire or electric shock. Never spill liquid of any kind on or into the device.

Important Safety Precautions

11. Servicing

Do not attempt to service this device yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

12. Damage Requiring Service

Unplug the device from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- (a) When the power - supply cord or plug is damaged.
- (b) If liquid has been spilled, or objects have fallen into the device.
- (c) If the device has been exposed to rain or water.
- (d) If the device does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the device to its normal operation.
- (e) If the device has been dropped or the cabinet has been damaged.
- (f) When the device exhibits a distinct change in performance - this indicates a need for service.

13. Replacement Parts

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

14. Safety Check

Upon completion of any service or repair to the device, ask the service technician to perform safety checks to determine that the device is in safe operating condition.

15. Heat

The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

16. Fire

The product should be situated away from naked flame sources such as lighted candle.

17. Off-gassing

The device smells of plastic is normal and will dissipate over time.



Incorrect replacement of the battery may lead to the risk, including the replacement of another similar or the same type. Do not expose batteries to heat such as sun or fire or something like that.



The device should not be exposed to dripping and spraying and it cannot be placed under objects filled with liquids.



Main plug is used as the disconnect device, the disconnect device shall remain ready for operating.



Apparatus with CLASS I construction shall be connected to a MAINS socket outlet with a protective earthing connection.

Content

**Product image is only for reference, actual product may vary in appearance.
Parts of the software function changes with the system upgrade.**

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Accessories List

The following accessories are included with the device:

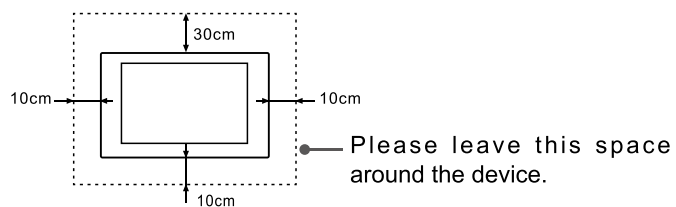
AV Cable × 1	Stylus × 2	Remote Control × 1
Battery × 2	Power Cord × 1	Wireless Cast × 1
User Manual of the Device × 1		User Manual of Wireless Cast × 1
Wall Mount Bracket × 1		

Start Guide

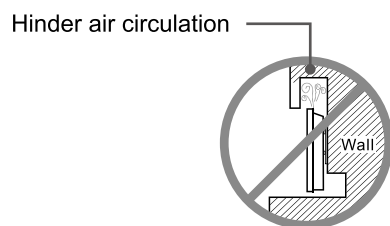
Precautions for Installation

- As shown in the figure below, leave a ventilation space around the device.

When mounted on the wall:

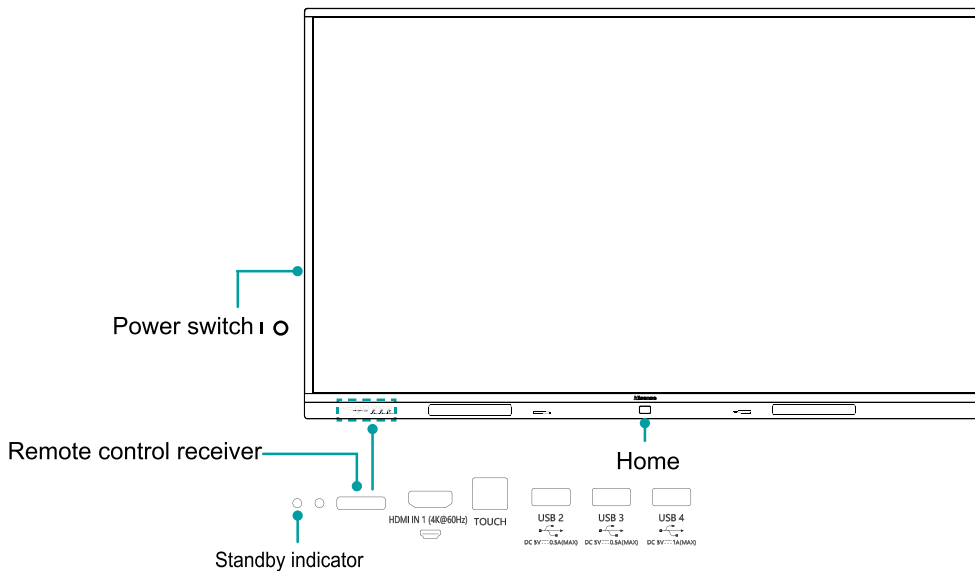


- Do not install the device as shown below.



Start Guide

Control Panel

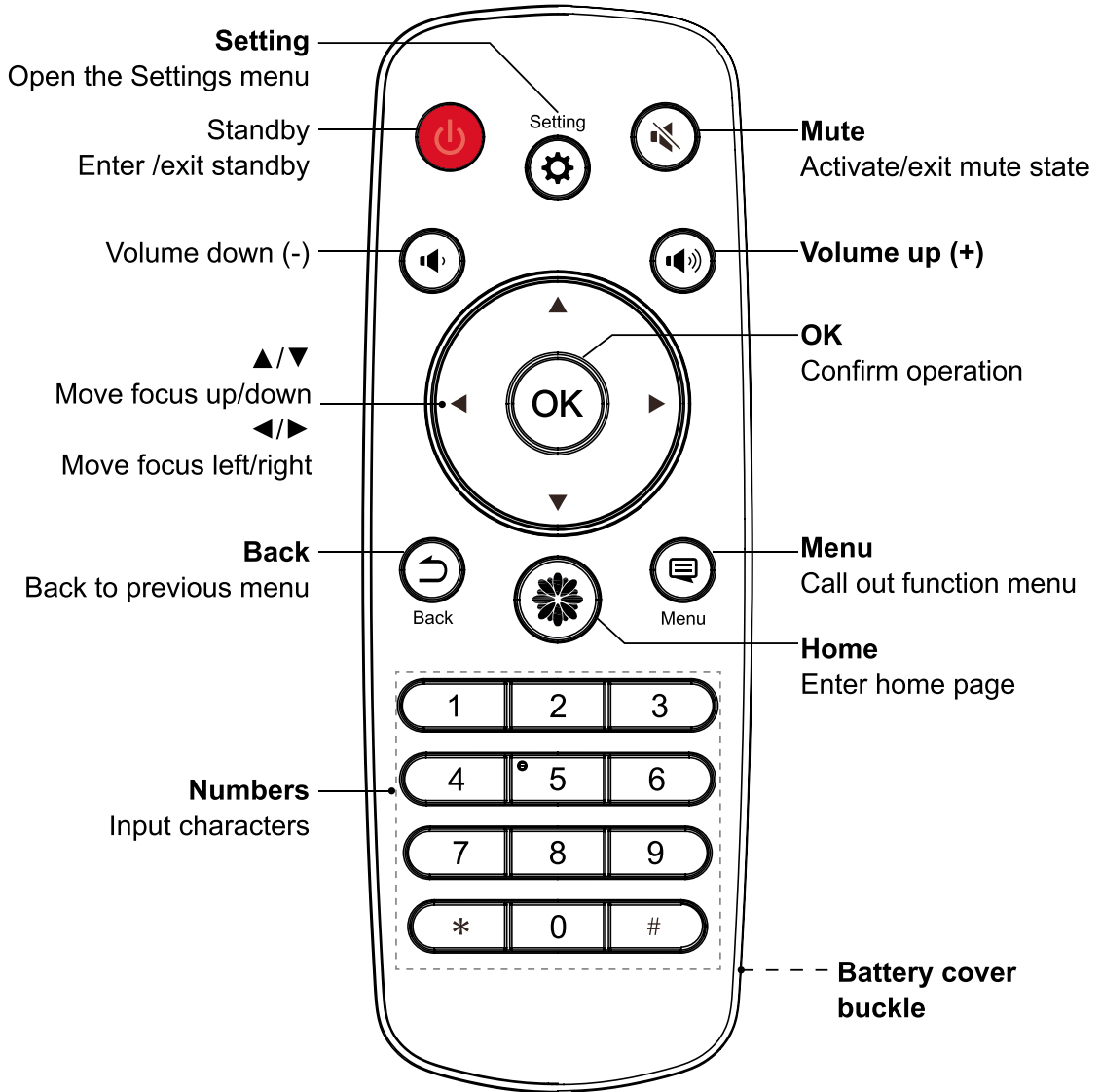


Name	Function description
Power switch I O	Turn the device on or off.
Remote control receiver	The signal transmitted by the remote control is received through this window.
Standby indicator	Display the state of power on or standby.
Home button	In normal mode, it has soft control button menu pop-up function and screen lock/unlock function. When turning on, press and hold the Home button to enter the standby function. In standby, it has power-on wake-up function. When the screen is off, it has brighten-screen wake-up function.
HDMI IN 1	The front HDMI interface allows digital audio and video signals to be transmitted using a single cable without compression. HDMI supports multi-channel digital audio, and can be connected to external devices with HDMI port, such as: computer host, set-top box, Blu-ray player, A/V device, etc.
TOUCH	It can be connected to PC and other devices.
USB	It is a USB interface, which can be used as the media playback interface of the device.

NOTES

- The appearance is for reference only. Please refer to the actual product for details.
- The device sometimes turns off the backlight for energy saving. You can press the Home button or tap the screen to turn on the backlight.

Remote Control



Battery replacement method

1. Disconnect the battery cover from the remote control at the battery cover buckle and open the battery cover.
2. Insert two AAA 1.5V alkaline batteries. Note that the positive (+) and negative (-) terminals of the batteries must match the positive (+) and negative (-) terminals in the battery case.
3. Close the battery cover from top to bottom until it is fully aligned with the remote control.

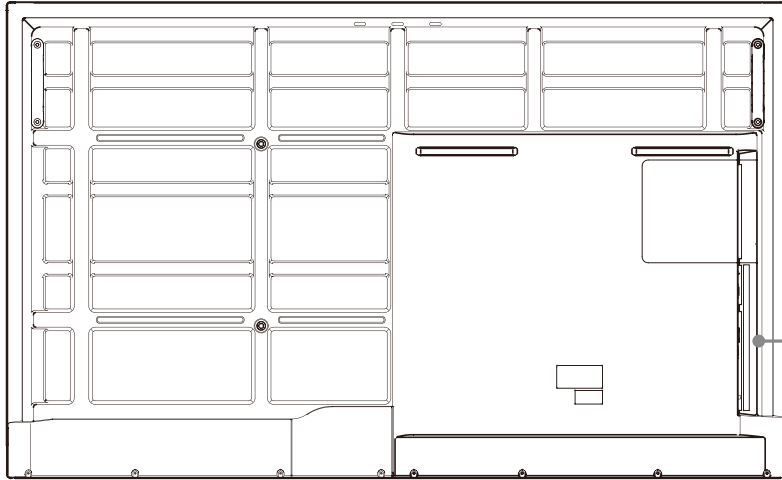
Precautions

1. If the remote control is not working properly, is unstable, or can't control the device, please replace the batteries.
2. If you do not use the remote control for a long time or the battery is exhausted, remove the battery. (Waste battery pollute the environment and must be handled properly.)
3. In order to achieve the best remote control effect, please point the black launch window on the back of the remote control at the indicator light of the device.

Effective range

1. Remote control distance: The distance from the front of the remote control is valid within 8m.
2. Remote control angle: With the remote control receiving window of the device as the apex, the angle in horizontal direction at the distance of 6m is at least $\pm 30^\circ$, and the angle in vertical direction is at least $\pm 15^\circ$.

Connection



NOTES

- The rear view is for reference only. Please refer to the actual product for details.
- RS232 port: It is the serial control of the device and is needed to carry out secondary development according to user's protocol.
- Some external devices can't be connected to this device due to individual differences. In this event, please replace appropriate signal cable or add the patch cord that matches the port.
- Please do not turn on/off the device continuously and quickly since power failure and system processing take time. Otherwise, the device may work improperly.

Connection

▶ Connect to HDMI input

Connect the HDMI input connector of the device to the HDMI output port of an external device.



Device port

NOTE

The supported signal formats of the HDMI port refer to Specifications.

▶ Connect to HDMI output

Connect the HDMI output connector of the device to the HDMI input port of an external device.



Device port

NOTE

When using it as a TV monitor, carefully read precautions for still image of the device.

▶ Connect to DP interface device



Device port

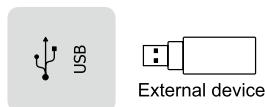
NOTE

The supported signal formats of the DP port refer to Specifications.

Part of lower version DP cables may cause screen flashing or no displaying, please try to use cables in latest version and high quality.

▶ Connect to USB interface device

The total current of all the USB output ports of the device when connected to external devices at the same time mustn't exceed 2500mA, or else the device failure caused by overcurrent isn't covered by the warranty.



Device port

NOTE

This device is connected to wireless keyboard and mouse devices. If there is any insensitivity phenomenon during use, you can try to change the wireless receiver to another USB port, or use USB extension cord to connect the wireless receiver in order to enhance the receiving range.

Connection

▶ Connect to TOUCH interface device

It is the touch screen interface used for an external PC as touch host. In HDMI, VGA and DP channel, the device is used as the touch unit by default.

When connecting, USB cables not longer than 1meter should be used to connect with the external PC.

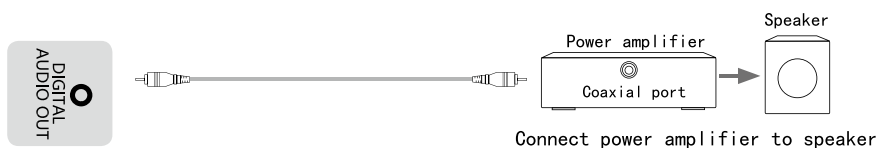


Device port

PC

▶ Connect to external audio device

Digital audio output: connect to power amplifier via coaxial port, then connect power amplifier to speaker.



Device port

Connect power amplifier to speaker

▶ Connect to VGA

This device has a D-sub 15-pin RGB port for PC, which allows connecting the VGA port of this device with the VGA port of the PC.

Connect the audio input port of the device to the audio output port of the PC audio card.



Device port

PC

☒ NOTE

The supported PC signal formats of VGA port refer to Specifications.

When switching to VGA input, make sure that the audio signal of the external device is connected to the device synchronously. Otherwise, the audio and video may not be synchronized.

► Use of external interface of touch screen and selection of touch unit

This device has a TOUCH port. When you need to use an external PC as the touch unit and signal source unit, you can connect USB ports of the device and PC with a USB cable (one end is A-male and the other end is B-male), , connect the PC to the device with signal cable (HDMI, VGA and DP cable), and switch the signal source to that channel. At this time, the touch screen can be connected to the corresponding unit, and the touch screen can be used to perform touch operation on the unit.

On the home page, the device is used as the touch unit. In HDMI, VGA and DP channel, the device is used as the touch unit by default. When the external unit is connected and powered on, and the USB cable is connected to the external unit, the touch unit is changed to external PC.

To operate the device, you can use the five-point touch method to call out the soft control menu and operate the device. After operation, tap any area out of the soft control menu of the device to hide the soft control menu. Then you can continue to operate the external PC, and the current channel is set as the touch input channel.

Basic Operation

Initial Start

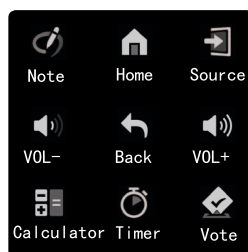
Switching on/off

- Connect the power cord of the device to a 100V to 240V AC outlet.
- Press the power switch [I O] of the device to [I] (Some models have no power switch).
- Press the standby button [⏻] on the remote control in the power on state to switch the device to standby; to resume normal watch, simply press the standby button [⏻] on the remote control again.
- To turn off the device, press the power switch [I O] of the device to [O].

NOTES

- When the AC power is turned off, wait at least 5 seconds before turning it on again in order to prevent problems of the device.

Soft Control Menu Use



Function description of soft control menu

Call method

You can use the five-point touch method (put five fingers on the screen and then move away) to call out the soft control menu.

Exit method

Tapping any area outside the soft control menu will close the menu.

Menu description

- **Note**
Tap to open the noting function. Part of interfaces can not activate this function.
- **Home**
Tap to back to the homepage.
- **Source**
Tap to call out the signal source menu and switch the signal source according to the prompt.
- **VOL+, VOL-**
Tap to increase or decrease volume of the device, and the volume bar will be called out.
- **Back**
Tap to return to the previous interface of one App. Apps that haven't passed our test may not respond to this button.
- **Calculator**
Tap to call out the calculator menu.
- **Timer**
Tap to call out the timer menu.
- **Vote**
Tap to open the vote menu.

Settings

Settings Menu

By using the Settings menu, you can meet your different needs and fully enjoy the audiovisual effects brought by this device.

Call method

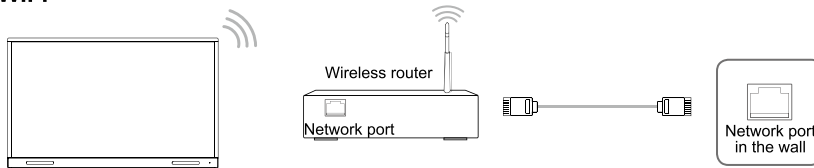
You can call out the **Settings** menu according to following methods:

- Press the **Settings** button on the remote control.
- Use the five-point touch method (put five fingers on the screen and then move away) to call out the soft control menu and tap the Home item. Tap All apps in the Home interface and then select the Settings menu.
- Enter the Super Taskbar to select the Settings menu.

Network

Enter the **Settings** menu and select the **Network** item.

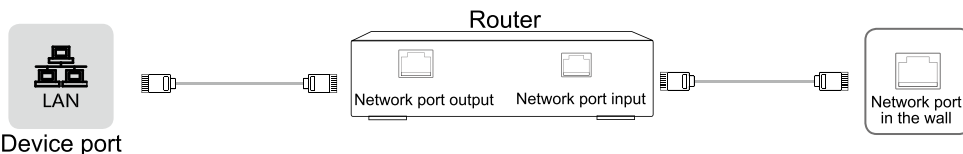
WIFI



The device can receive network signals directly through Wireless router

- The available wireless network list is automatically displayed when the WIFI is selected.
- Select an available network, enter the password, and tap Connect. If the selected network is not encrypted, you can connect directly.
- If the network you want to connect to is not displayed in the list, tap Refresh to display more networks. If the network you want is still not displayed after this operation, tap Add Network and enter the network name manually, select the corresponding encryption method according to router settings, enter the password, and tap Confirm.

Ethernet



• Ethernet:auto

The device automatically obtains an IP address and connects to the network. If failure, repeat the operation again or choose Ethernet:manual.

• Ethernet:manual

Manually enter the IP Address, Subnet Mask, DNS Server and Gateway.

System

- **CallMaster**

Set the caller ID to on/off.

When the CallMaster is on, the device automatically switches to the corresponding channel when it detects a new signal input.

NOTE

Part of signal sources do not support this function.

- **Soft Source**

It is the designated source channel for external PC. The soft control signal is transmitted to external PC via the soft source channel.

The soft source has five options: HDMI-Input1, HDMI-Input2, DP, VGA and ALL. When HDMI-Input1, HDMI-Input2, DP or VGA is selected, only the selected channel is available; when ALL is selected, HDMI-Input1, HDMI-Input2, DP and VGA are all available.

- **Serial Status**

Display the current serial port status.

- **HDMI Version**

Select the HDMI version: HDMI 1.4, HDMI 2.0.

NOTE

Only available in HDMI and DP channels.

- **HDMI Output Setting**

Select HDMI output setting: 1080P 60Hz, 4K 60Hz.

4K 60Hz is 4K RGB 4:4:4 60Hz. The device at least supports HDMI2.0 protocol and HDMI cable also conforms to HDMI2.0 protocol. Otherwise, signals may not display or display problems. Optical fiber transmission is preferred when transmission distance is long.

- **LAN Share**

Set to share via LAN or external network. When the LAN Share is on, the content of conference minutes and other information can be shared by scanning only in the same LAN.

Serial Protocol

Serial Protocol

Serial port status

The device can receive the serial port command sent by the external controller or OPS of the device.

Refer to the following table for the specific command protocol:

1. Baud rate: 9600 2. Control section: PC → The device 3. Response section: The device → PC

		Protocol header		Length		Command code				ID	Data	Verify	Protocol tail	
Screen on/off	On PC to device	DD	FF	00	07	C1	31	00	00	01	00	F6	BB	CC
	On Device to PC	AB	AB	00	07	C1	31	00	00	01	00	F6	CD	CD
	Off PC to device	DD	FF	00	07	C1	31	00	00	01	01	F7	BB	CC
	Off Device to PC	AB	AB	00	07	C1	31	00	00	01	01	F7	CD	CD
Current Signal Source Query	PC to device	DD	FF	00	06	C1	1A	00	00	01		DC	BB	CC
	Device to PC	AB	AB	00	09	C1	1A	00	00	01	XX XX XX	XX	CD	CD
	Remark	XX XX XX: 05 03 02: PC 06 04 00: VGA 05 03 00: HDMI1 05 03 01: HDMI2 05 03 03: DP												
Software Version Query	PC to device	DD	FF	00	06	C1	1B	00	00	01		DD	BB	CC
	Device to PC	AB	AB	00	09	C1	1B	00	00	01	XX XX XX	XX	CD	CD
	Remark	The first XX is the Year. The second XX is the Month. The third XX is the Day.												
Set Time (Y/M/D)	PC to device	DD	FF	00	09	C1	1C	00	00	01	XX XX XX	XX	BB	CC
	Device to PC	AB	AB	00	09	C1	1C	00	00	01	XX XX XX	XX	CD	CD
	Remark	The first XX is the Year. The second XX is the Month. The third XX is the Day. If set failures, these three XX return FF.												

		Protocol header		Length		Command code				ID	Data	Verify	Protocol tail	
Set Time (H/M/S)	PC to device	DD	FF	00	09	C1	1D	00	00	01	XX XX XX	XX	BB	CC
	Device to PC	AB	AB	00	09	C1	1D	00	00	01	XX XX XX	XX	CD	CD
	Remark	The first XX is the Hour. The second XX is the Minute. The third XX is the Second. If set failures, these three XX return FF.												
Reboot TV	PC to device	DD	FF	00	06	C1	1E	00	00	01		D8	BB	CC
	Device to PC	AB	AB	00	06	C1	1E	00	00	01		D8	CD	CD
Signal Source Selection	PC to device	DD	FF	00	07	C1	08	00	00	01	XX	XX	BB	CC
	Device to PC	AB	AB	00	07	C1	08	00	00	01	XX	XX	CD	CD
	Remark	Data: XX 04: PC 05: HDMI1 06: HDMI2 07: VGA 0B: DP												
Screen on/off Query	PC to device	DD	FF	00	06	C1	32	00	00	01		F4	BB	CC
	Device to PC	AB	AB	00	07	C1	32	00	00	01	XX	XX	CD	CD
	Remark	Data: XX 00 is the screen off state. 01 is the screen on state.												

Serial Protocol

		Protocol header		ID	Length	Command code				Protocol tail	
Switch on/ off	On PC to device	DD	FF	01	04	A1	00	00	00	BB	CC
	On Device to PC	AB	AB	01	04	A1	00	00	00	CD	CD
	Off PC to device	DD	FF	01	04	A1	01	00	00	BB	CC
	Off Device to PC	AB	AB	01	04	A1	01	00	00	CD	CD
Volume Control	PC to device	DD	FF	01	04	A1	07	00	XX	BB	CC
	Device to PC	AB	AB	01	04	A1	07	00	XX	CD	CD
	Remark	XX is the volume value.									
Bright- ness Control	PC to device	DD	FF	01	04	A1	08	00	XX	BB	CC
	Device to PC	AB	AB	01	04	A1	08	00	XX	CD	CD
	Remark	XX is the brightness value.									

NOTE

- Verify is the exclusive OR of Length, Command code, ID and Data.
- All data are hexadecimal values.
- For all commands received by the device, the protocol header needs to be changed to AB AB and the protocol tail needs to be changed to CD CD when returning to the PC.
- Precautions for control terminal programming: For the power-on command, AB AB 01 04 A1 00 00 00 CD CD are returned after the power-on action is executed; if the command is not received, the power-on command needs to be sent again. After the TV is turned on, the PC will receive AB AB 01 04 A1 00 00 00 CD CD again, and then the PC can send a control command to the device. If the correct command is not returned after any command is sent, the command should be sent again at least after 500ms.
- In standby state, the device only supports startup commands.

Troubleshooting

Troubleshooting

Before preparing for repair, check according to the table below to see if you can find the cause of the problem.

If you strictly follow the instructions but still can't resolve the problem, you can turn to professional servicemen for help.

Problem	Solution
No sound or picture	<ul style="list-style-type: none">• Check if the power cord is connected to the wall outlet, and if the wall outlet is energized.• Check if you have pressed the Power button or Standby button.• Check the volume.
Sound and picture are disturbed	<ul style="list-style-type: none">• Try to find the appliance that affects the LCD monitor and keep it away.• Try plugging the LCD monitor's power plug into another outlet.

Specifications

Features, appearance and specifications are subject to change without notice.

Model	HN75WR80U
Product name	Hisense Interactive Digital Board
Size(mm)(W×H×D) excluding base	1720×1048×105
Weight(kg) excluding base	52
Visual picture diagonal size (cm)	189
Display resolution	3840×2160
Power supply	100-240V ~ 50/60Hz 3.5A
Sound power	15W+15W
Executive standard	Q/0202RSR 620
Environmental conditions	Operating temperature 5°C ~ 35°C Operating humidity 20% ~ 80%RH Atmospheric pressure 86kPa ~ 106kPa

The supported video formats are as follows:

Encapsulation	Video decoding				Audio decoding
	Type	Resolution(Max)	Bit rate(Max)	Frame rate(Max)	
.avi	Xvid	1920×1080	50Mbps	30fps	Dolby Audio, MPEG1(Layer1,2,3)
.avi .mpg .ts	MPEG2	1920×1080	80Mbps	30fps	Dolby Audio, MPEG1(Layer1,2,3)
.ts .mkv .avi .mp4 .flv	H.264	3840×2160	160Mbps	30fps	Dolby Audio, AAC, MPEG1(Layer1,2,3)
.avi .mpg .mov	MPEG4	1920×1080	50Mbps	30fps	Dolby Audio, MPEG1(Layer1,2,3)
.mkv .mp4 .ts	H.264	3840×2160	160Mbps	30fps	Dolby Audio, AAC, MPEG1(Layer1,2,3)
.ts .mkv .mp4	H.265	3840×2160	160Mbps	60fps	Dolby Audio, AAC, MPEG1(Layer1,2,3)

Dolby Audio: Support Dolby Digital, Dolby Digital Plus, Dolby AC4, and Dolby TrueHD.

NOTE

Formats listed above may not all supported by the device as video making tools are not unified.

Specifications

Signal Formats Supported by HDMI & DP Ports	
RGB/60Hz	640×480, 800×600, 1024×768
YUV/50Hz	576i, 576p, 720p, 1080i, 1080p
YUV/60Hz	480i, 480p, 720p, 1080i, 1080p
YUV/24Hz 25Hz 30Hz	3840 x 2160, 4096 x 2160
YUV420/50Hz 60Hz	3840 x 2160, 4096×2160
YUV444/50Hz 60Hz	3840 x 2160, 4096×2160
RGB444/50Hz 60Hz	3840 x 2160, 4096×2160

NOTE

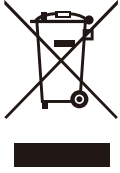
HDMI2.0 and HDMI1.4 are supported by the device. HDMI1.4 is the default, which only supports part of formats listed above. HDMI2.0 supports all formats listed above. If HDMI2.0 is needed, you can tab menu under HDMI Version and select HDMI2.0.

PC Signal Formats Supported by VGA Port		
Signal format	Resolution	Refresh rate
VGA	640×480	60Hz
SVGA	800×600	60Hz
XGA	1024×768	60Hz
SXGA	1280×1024	60Hz

Other Information

Recycling/Licenses

WEEE (Waste Electronic Electric Equipment)
European Directive 2012/19/EU



This symbol on the product or on its packaging indicates that this product must not be disposed of with your household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

Batteries



In accordance with the Battery Directive, used batteries should not be disposed of in the domestic waste. Dispose your batteries in the collection containers specific for this purpose in retail stores.

ROHS (Restriction of Hazardous Substance)
European Directive 2011/65/EU



This European directive limits the use of dangerous and hazardous substances which are difficult to recycle.

This allows recycling easily the EEE and contributes to the safeguard of the environment.

Substances included in this product match to the RoHS directive.



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