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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You acknowledge and agree explicitly that you will solely bear the risk associated with the use of this device, and further you will solely bear any risk related to satisfactory quality, performance and accuracy for any content and service accessed through this device. To the maximum extent permitted by applicable law, this device and any third party's content and service is provided as it is without any guarantee, express or implied.

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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.



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.



DC voltage: This symbol indicates that the rated voltage marked with the symbol is DC 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 Notice

Paragraphs beginning with the symbol **1** indicate important instructions, tips or conditions for the following settings.



For your own safety and the optimal performance of your TV, ensure to read the safety instructions before performing any installation.

Compatibility with 3rd party products, software and services are not guaranteed. We cannot be held liable for any damage or loss suffered whilst operating, using or connecting to incompatible devices or apps.

The recording and playback of content on this or any other device may require permission from the owner of the copyright or other such rights in that content. It is your responsibility to ensure that your use of this or any other device complies with applicable copyright legislation in your country. Please refer to that legislation for more information on the relevant laws and regulations involved or contact the owner of the rights of the content you wish to record or playback.

Read these instructions Follow all instructions Heed all warnings Keep these instructions All rights reserved.



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.

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.

CHILD SAFETY:

It Makes A Difference How and Where You Use Your Flat Panel Display

Congratulations on your purchase! As you enjoy your new product, please keep these safety tips in mind:



THE ISSUE

- The home theater entertainment experience is a growing trend and larger flat panel displays are popular purchases. However, flat panel displays are not always supported on the proper stands or installed according to the manufacturer's recommendations.
- Flat panel displays that are inappropriately situated on dressers, bookcases, shelves, desks, speakers, chests or carts may fall over and cause injury.

THIS MANUFACTURER CARES!

 The consumer electronics industry is committed to making home entertainment enjoyable and safe.

TUNE INTO SAFETY

- One size does NOT fit all. Follow the manufacturer's recommendations for the safe installation and use of your flat panel display.
- Carefully read and understand all enclosed instructions for proper use of this product.
- Don't allow children to climb on or play with furniture and television sets.
- Don't place flat panel displays on furniture that can easily be used as steps, such as a chest of drawers.
- Remember that children can become excited while watching a program, especially on a "larger than life" flat panel display. Care should be taken to place or install the display where it cannot be pushed, pulled over, or knocked down.
- Care should be taken to route all cords and cables connected to the flat panel display so that they cannot be pulled or grabbed by curious children.

WALL MOUNTING: IF YOU DECIDE TO WALL MOUNT YOUR FLAT PANEL DISPLAY, ALWAYS:

- Use a mount that has been recommended by the display manufacturer and/or listed by an independent laboratory (such as UL, CSA, ETL).
- Follow all instructions supplied by the display and wall mount manufacturers.
- Be sure to follow the installation guide supplied with the Wall-Mount Bracket when installing the TV. To complete the installation, please contact wall-mount manufacturer.
- Make sure that the wall where you are mounting the display is appropriate.
 Some wall mounts are not designed to be mounted to walls with steel studs or old cinder block construction. To complete the installation, please contact wall-mount manufacturer.
- A minimum of two people are required for installation. Flat panel displays can be heavy.





Important Safety Instructions



CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN



TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

- 1. Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. Do not use this apparatus near water.
- 6. Clean only with dry cloth.
- 7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10.Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11. Only use attachments/accessories specified by the manufacturer.
- 12.Use only with cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



- 13.Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15.To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. The apparatus shall not be exposed to dripping or splashing and that objects filled with liquids, such as vases, shall not be placed on apparatus.
- 16.To prevent injury, this apparatus must be securely attached to the wall in accordance with the installation instructions.



The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



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

- 17. The MAINS plug used as the disconnect device. The disconnect device shall remain readily operable.
- 18.Keep your TV away from moisture. Do not expose your TV to rain or moisture. If water penetrates into your TV, unplug the power cord and contact your dealer. Continuous use in this case may result in fire or electric shock.
- 19.Do not expose batteries to excessive heat such as sunshine, fire or the like
- 20.Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.
- 21. Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

22. **A** WARNING

This product can expose you to chemicals including [Both Styrene and BPA] which are known to the State of California to Cause Cancer and Reproductive Harm. For more information go to www.P65Warnings.ca.gov.

CONDENSATION:

Moisture will form in the operating section of the unit if the unit is brought from cool surroundings into a warm room or if the temperature of the room rises suddenly. When this happens, unit's performance will be impaired. To prevent this, let the unit stand in its new surroundings for about an hour before switching it on, or make sure that the room temperature rises gradually.

Condensation may also form during the summer if the unit is exposed to the breeze from an air conditioner. In such cases, change the location of the unit.

HOW TO HANDLE THE LCD PANEL:

- Do not press hard or jolt the LCD panel. It may cause the LCD panel glass to break and injury may occur. If the LCD panel is broken, make absolutely sure that you do not touch the liquid in the panel. This may cause skin inflammation.
- If the liquid gets in your mouth, immediately gargle and consult with your doctor. Also, if the liquid gets in your eyes or touches your skin, consult with your doctor after rinsing for at least 15 minutes or longer in clean water.

POSSIBLE ADVERSE EFFECTS ON LCD PANEL:

If a fixed (non-moving) pattern remains on the LCD Panel for long periods of time, the image can become permanently engrained in the LCD Panel and cause subtle but permanent ghost images. This type of damage is **NOT COVERED BY YOUR WARRANTY**. Never leave your LCD Panel on for long periods of time while it is displaying the following formats or images:

- Fixed Images, such as stock tickers, video game patterns, TV station logos, and websites.
- Special Formats that do not use the entire screen. For example, viewing letterbox style (16:9) media on a normal (4:3) display (black bars at top and bottom of screen); or viewing normal style (4:3) media on a widescreen (16:9) display (black bars on left and right sides of screen).

The following symptoms are not signs of malfunction but technical limitation. Therefore we disclaim any responsibility for these symptoms.

 LCD Panels are manufactured using an extremely high level of precision technology, however sometimes parts of the screen may be missing picture elements or have luminous spots.

This is not a sign of a malfunction.

- Do not install the LCD Panel near electronic equipment that produces electromagnetic waves. Some equipment placed too near this unit may cause interference.
- Effect on infrared devices There may be interference while using infrared devices such as infrared cordless headphones.

End of life directives

Your TV also contains material that can be recycled and reused. For disposal or recycling information, contact your local authorities or the Electronic Industries Alliance at www.eia.org (for USA), the Electronic Products Recycling Association at http://www.eprassociation.ca (for Canada) to find a recycler in your area.

Non-active pixels

The LCD panel contains almost 3 million thin film transistors, which provide exceptionally sharp video quality. Occasionally, a few non-active pixels may appear on the screen as a fixed black (in the case of a dead pixel), blue, green, or red point. These non-active pixels do not adversely affect the performance of your TV, and are not considered defects.

Power source

WARNING

- Do not use a different power supply cord to plug the TV into an AC outlet. Using a power cord that did not already come with the TV could cause a fire, electrical shock or damage.
- Do not use a power voltage that is different than what Hisense has already specified. This could cause a fire, electrical shock or damage.
- If you do not plan to use this TV for a long time (due to a lengthy trip or some other reason) then be sure to unplug it from the AC outlet.
- Do not plug or unplug the AC cord when your hands are wet. This may cause electrical shock.
- If an outside antenna or cable system is connected with the TV, be sure the antenna or cable system is grounded so as to provide protection against voltage surges and built-up static charges...

No naked flame sources, such as lighted candles, should be placed on the appara tus.

The WiFi Module complies with FCC radiation exposure limits set forth for an uncontrolled environment. This device should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body. (only applicable for Smart TV built-in wireless)

FCC RF Safety Caution Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment must be installed and operated in accordance with provided instructions 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.

RF Exposure Statement for Canada

The radiated output power of the Wireless Device is below the Industry Canada (IC) radio frequency exposure limits. The Wireless Device should be used in such a manner such that the potential for human contact during normal operation is minimized.

(only applicable for TV with RF port)

WARNING

Never place a television set in an unstable location. A television set may fall, causing serious personal injury or death. Many injuries, particularly to children, can be avoided by taking simple precautions such as:

- Using cabinets or stands recommended by the manufacturer of the television set.
- Only using furniture that can safely support the television set.
- Ensuring the television set is not overhanging the edge of the supporting furniture.
- Not placing the television set on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the television set to a suitable support.
- Not placing the television set on cloth or other materials that may be located between the television set and supporting furniture.
- Educating children about the dangers of climbing on furniture to reach the television set or its controls.

If your existing television set is being retained and relocated, the same considerations as above should be applied.

Content

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

Content	1
Accessories List	1
Start Guide	2
Control Panel	3
Remote Control	4
Connection	6
Basic Operation	10
Initial Start	10
Soft Control Menu Use	10
Settings	11
Settings Menu	11
Network	11
System	12
Serial Protocol	13
Troubleshooting	16
Specifications	17
Other Information	20
EU Declaration of Conformity (DoC)	22
UK Declaration of Conformity (DoC)	25

Accessories List

The following accessories are included with the device:

Stylus × 2 Audio Cable × 1 Remote Control × 1

Wireless Cast × 1 (Optional) User Manual of the Device × 1

Battery × 2 (Optional) Wall Mount Bracket × 1 (Optional)

User Manual of Wireless Cast × 1 (Optional)

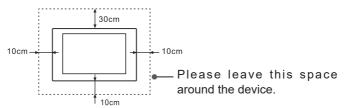
Power Cord (It depends on the models, regions, or countries.)

Start Guide

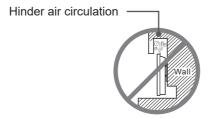
Precautions for Installation

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

When mounted on the wall:



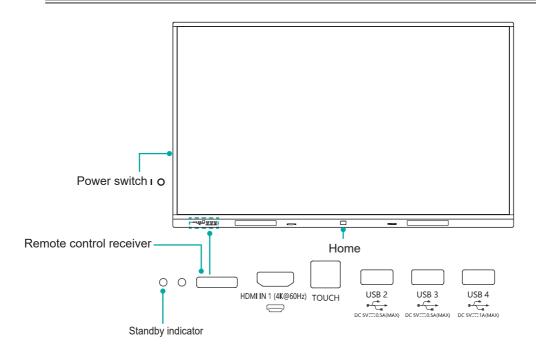
Do not install the device as shown below.



Insufficient ventilation will overheat the device and may cause damage to the device and even fire.

Start Guide

Control Panel

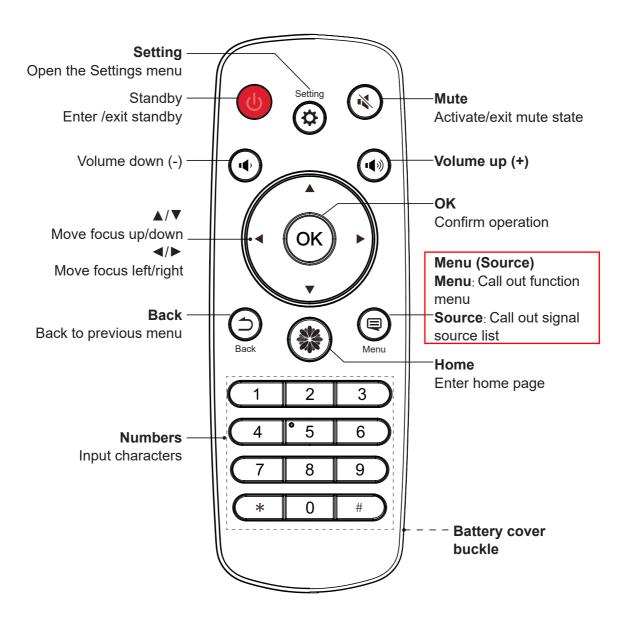


Name	Function description
Power switch 1 0	Turn the device on or off.
Remote control receiver	The signal transmitted by the remote control is received through this window.
Standby indicator	Display the state of power on or standby. When turned on, the indicator light is blue; in standby, the indicator light is red.
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.
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



Remote Control

Battery replacement method

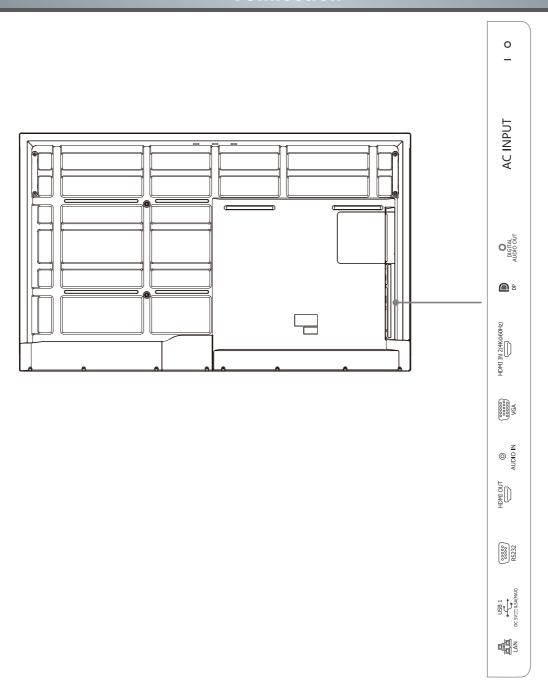
- Disconnect the battery cover from the remote control at the battery cover buckle and open the battery cover.
- 2. Insert two AAA 1.5V alkaline batteries. Note that the positive (+) and negative (-) terminals of the batteries must match the positive (+) and negative (-) terminals in the battery case.
- 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 ±30°, and the angle in vertical direction is at least ±15°.



→ 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.

▶ Connect to HDMI input

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



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

▶ Connect to HDMI output

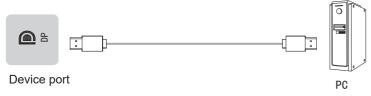
Connect the HDMI output connector of the device to the HDMI input port of an external device.



→ NOTE

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

Connect to DP interface device



→ 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.

Part of input RGB signals may occur low quality situations in low or high brightness mode. To adapt the picture quality, you can press the **Assistance** button on the remote control, select Dynamic Range in the Picture menu, and then select All.

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.

▶ Connect to TOUCH interface device

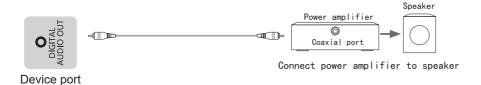
It is the touch screen interface used for an external PC as touch host. In HDMI, VGA and DP channel, the device is used as the touch unit by default.

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



Connect to external audio device

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

Ð 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 [IO] of the device to [I] (Some models have no power switch).
- Press the standby button [\circlearrowleft] on the remote control in the power on state to switch the device to standby; to resume normal watch, simply press the standby button [\circlearrowleft] on the remote control again.
- To turn off the device, press the power switch [IO] 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.

ScreenOff

Tap to turn off the screen backlight.

Back

Tap to return to the previous interface of one App. Apps that haven't passed our test may not respond to this button.

Lock

Tap to lock the screen, and disable operation of the device.

Volume

Tap to increase or decrease volume of the device, and the volume bar will be called out.

Settings

Tap to call out the settings menu.

WhiteBoard

Tap to open the electronic whiteboard.

Settings

Settings Menu

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

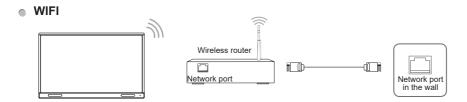
Call method

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

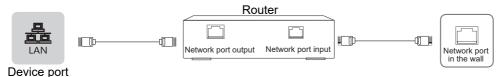
Enter the **Settings** menu and select the **Network** item.



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.

Settings

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 standard, HDMI enhance.

→ 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 $\rightarrow \mbox{PC}$

		Proto hea		Ler	ngth	Со	mmar	nd cod	de	ID	Data	Verify	1	ocol
	On PC to device	DD	FF	00	07	C1	31	00	00	01	00	F6	ВВ	СС
Screen on/	On Device to PC	AB	AB	00	07	C1	31	00	00	01	00	F6	CD	CD
off	Off PC to device	DD	FF	00	07	C1	31	00	00	01	01	F7	ВВ	СС
	Off Device to PC	АВ	AB	00	07	C1	31	00	00	01	01	F7	CD	CD
	PC to device	DD	FF	00	06	C1	1A	00	00	01		DC	ВВ	СС
Current	Device to PC	AB	AB	00	09	C1	1A	00	00	01	xx xx xx	XX	CD	CD
Signal Source Query	Remark	XX XX XX: 05 03 02: PC 06 04 00: VGA 05 03 00: HDMI1 05 03 01: HDMI2 05 03 03: DP												
	PC to device	DD	FF	00	06	C1	1B	00	00	01		DD	ВВ	СС
Software Version	Device to PC	AB	AB	00	09	C1	1B	00	00	01	XX XX XX	XX	CD	CD
Query	Remark	The s	The first XX is the Year. The second XX is the Month. The third XX is the Day.											
	PC to device	DD	FF	00	09	C1	1C	00	00	01	XX XX XX	XX	ВВ	СС
Set Time	Device to PC	AB	AB	00	09	C1	1C	00	00	01	XX XX XX	XX	CD	CD
(Y/M/D)	Remark	The s	rst XX econd nird XX failure:	XX is	the Ne Day	/lonth.		n FF.						

		Protocol header Length		Command code			ID	Data	Verify	Prot ta	ocol ail			
	PC to device	DD	FF	00	09	C1	1D	00	00	01	XX XX XX	XX	ВВ	СС
Set Time (H/M/S)	Device to PC	AB	AB	00	09	C1	1D	00	00	01	XX XX XX	XX	CD	CD
Rei	Remark	The The	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	PC to device	DD	FF	00	06	C1	1E	00	00	01		D8	BB	СС
TV	Device to PC	АВ	AB	00	06	C1	1E	00	00	01		D8	CD	CD
	PC to device	DD	FF	00	07	C1	08	00	00	01	XX	XX	ВВ	СС
Signal	Device to PC	AB	AB	00	07	C1	08	00	00	01	XX	XX	CD	CD
Source Selection	Remark	Data	04: F 05: F	HDMI HDMI /GA										
	PC to device	DD	FF	00	06	C1	32	00	00	01		F4	ВВ	CC
Screen on/	Device to PC	AB	AB	00	07	C1	32	00	00	01	XX	XX	CD	CD
	Data	00 is			n off s									

Serial Protocol

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

Product name		Hisense Interactive Digital Board			
Model		HN75WR80U			
Size(mm) (W×H×D) ex	cluding base	1720 × 1048 × 105			
Weight(kg) excluding I	oase	52			
Visual picture diagona	l size (cm)	189			
Power supply		100-240V ~ 50/60Hz 3.5A			
	Model	W2NM2510	ZDGFMT7668AU		
Wireless I AN Module	Frequency	2.4~2.4835GHz	2.4~2.4835GHz		
specifications	Range	2.4°2.4033GHZ	5.15~5.85GHz		
3pcomodions	Output	2.4~2.4835GHz 17.5dBm	2.4~2.4835GHz 16dBm		
	Power (Max.)	2.4 · 2.4033GHZ 17.3dBH	5.15~5.85GHz 14dBm		
Display resolution		3840 × 2160			
Sound power		15W + 15W			
Executive standard		Q/0202RSR 620			
Environmental condition	ons	Operating temperature 5°C ~ 35°C Operating humidity 20% ~ 80%RH Atmospheric pressure 86kPa ~ 106kPa			

Product name		Hisense Interactive Digital Board				
Model		65WR60AE				
Size(mm) (W×H×D) ex	cluding base	1500 × 922 × 105				
Weight(kg) excluding l	pase	39				
Visual picture diagona	l size (cm)	164				
Power supply		100-240V ~ 50/60Hz 3.0A				
	Model	TX8822CU52T	TX7663BU52T			
Wireless I AN Module	Frequency	2.4~2.4835GHz				
specifications	Range	5.15~5.85GHz				
3pcomoation3	Output	2.4~2.4835GHz 16dBm				
	Power (Max.)	5.15~5.85GHz 14dBm				
Display resolution		3840 × 2160				
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				

Specifications

Product name		Hisense Interactive Digital Board			
Model		86WR60AE			
Size(mm) (W×H×D) ex	xcluding base	1972 × 1192 × 116			
Weight(kg) excluding I	base	75			
Visual picture diagona	I size (cm)	217			
Power supply		100-240V ~ 50/60Hz 5.0A			
	Model	W2NM2510	ZDGFMT7668AU		
Wireless LAN Module	Frequency	2.4~2.4835GHz	2.4~2.4835GHz		
specifications	Range	2.4°2.4033GHZ	5.15~5.85GHz		
3pccilication3	Output	2.4~2.4835GHz 17.5dBm	2.4~2.4835GHz 16dBm		
	Power (Max.)	2.4°2.4033GHZ 17.3dBH	5.15~5.85GHz 14dBm		
Display resolution		3840 × 2160			
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:

		Video			
Encapsulation	Туре	Resolution(Max)	Bit rate(Max)	Frame rate(Max)	Audio decoding
.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 port					
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

HDMI enhance and HDMI standard are supported by the device. HDMI standard is the default, which only supports part of formats listed above. HDMI enhance supports all formats listed above, except front-facing port. Front-facing HDMI enhance port doesn't support the formats of YUV444 and RGB444. If HDMI enhance is needed, you can tab menu under HDMI Version and select HDMI enhance.

Signal formats supported by DP port					
RGB/60Hz	640 × 480, 800 × 600, 1024 × 768				
YUV/50Hz	576p, 720p, 1080i, 1080p				
YUV/60Hz	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				

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.



The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc. in the United States and other countries.

Other Information

Certification and Compliance

FCC Notice

This device 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 device 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 device does cause harmful interference to radio or television reception, which can be determined by turning the device 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 device and receiver.
- Connect the device 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.

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

The Wi-Fi Module complies with FCC radiation exposure limits set forth for an uncontrolled environment. This device should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

This device complies with Industry Canada's licence-exempt RSSs. 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

Declaration of Conformity

Trade Name: Hisense

Model: 65WR60AE/HN75WR80U/86WR60AE Responsible Party: Hisense USA Corporation

Address: 7310 McGinnis Ferry Road, Suwanee, GA 30024

Telephone Number: 678-318-9060

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.

EU Declaration of conformity(DoC)

EU Declaration of conformity (DoC)

Unique identification of this DoC: hisense-03

Yang Lan

We, Declare under our sole responsibility that the product:

Product Name: Hisense Interactive Digital Board

Trade Name: Hisense Model: HN75WR80U

To which this declaration relates is in conformity with the essential requirements and other relevant requirements of the radio equipment directive (2014/53/EU), Ecodesign Directive (2009/125/EC) & Regulation 642/2009/EC, RoHS Directive (2011/65/EU). The product is in conformity with the following standards and /or other normative documents:

Health & Safety (Art. 3(1)(a)): EN62311:2008

EN62368-1:2014+A11:2017

EMC (Art. 3(1)(b)): EN55032:2015

EN55035:2017 EN61000-3-2:2014 EN61000-3-3:2013

EN301489-1 V2.2.0:2017 EN301489-17 V3.2.0:2017

Spectrum (Art. 3(2)): EN300328 V2.2.2:2020

EN301893 V2.2.2:2020

ErP: EN50564:2011 IEC62087-1:2015

RoHS: EN50581:2012

Software *: HN75.V0000.WR80.U.00.01A.J1212

*The company reserves the right to install updated Software versions to improve the performance ofthe appliance.

Place and date of issue (of this DoC): QingDao 2019/12/17

Signed by or for the manufacturer: Hisense Commercial Display Co.,Ltd.

Address: No.218, Qianwangang Road, Economy& Technology Development Zone, Qingdao, China

Title: Product manager Name (in print): Yanglin

EU Declaration of conformity(DoC)

EU Declaration of conformity (DoC)

Unique identification of this DoC: hisense-03

Yang Lan

We, Declare under our sole responsibility that the product:

Product Name: Hisense Interactive Digital Board

Trade Name: Hisense Model: 65WR60AE

To which this declaration relates is in conformity with the essential requirements and other relevant requirements of the radio equipment directive(2014/53/EU), Ecodesign Directive(2009/125/EC)& Regulation (EU) 2019/2021, ROHS Directive (2011/65/EU). The product is in conformity with the following standards and /or other normative documents:

Health & Safety (Art. 3(1)(a)): EN62311:2008

EN62368-1:2014+A11:2017

EMC (Art. 3(1)(b)): EN 55032:2015+A11:2020,class A

EN 55035:2017+A11:2020 EN 301 489-1 V2.2.3:2019 EN 301 489-17 V3.2.4:2020 EN IEC 61000-3-2:2019+A1:2021 EN 61000-3-3: 2013+A1: 2019

Spectrum (Art. 3(2)): EN300328 V2.2.2:2019

EN301893 V2.1.1:2017

ErP: Transitional Test Method for Ecodesign and Energy Labelling requirements for electronic displays

RoHS: IEC 63000:2018

Software *: 65. V0001.WR60.AE.00.01A.L1013

*The company reserves the right to install updated Software versions to improve the performance of the appliance.

Place and date of issue (of this DoC): QingDao 2021/12/15

Signed by or for the manufacturer: Hisense Commercial Display Co., Ltd.

Address: No.218, Qianwangang Road, Economy& Technology Development Zone, Qingdao, China

Title: Product manager Name (in print): Yanglin

EU Declaration of conformity(DoC)

EU Declaration of conformity (DoC)

Unique identification of this DoC: hisense-03

Yang Lin

We, Declare under our sole responsibility that the product:

Product Name: Hisense Interactive Digital Board

Trade Name: Hisense Model: 86WR60AE

To which this declaration relates is in conformity with the essential requirements and other relevant requirements of the radio equipment directive(2014/53/EU), Ecodesign Directive(2009/125/EC)& Regulation642/2009/EC, ROHS Directive (2011/65/EU). The product is in conformity with the following standards and /or other normative documents:

Health & Safety (Art. 3(1)(a)): EN62311:2008

EN62368-1:2014+A11:2017

EMC (Art. 3(1)(b)): EN55032:2015

EN55035:2017 EN61000-3-2:2014 EN61000-3-3:2013

EN301489-1 V2.2.0:2017 EN301489-17 V3.2.0:2017

Spectrum (Art. 3(2)): EN300328 V2.2.2:2020

EN301893 V2.2.2:2020

ErP: EN50564:2011 IEC62087-1:2015

RoHS: EN50581:2012

Software *: 86.V0000.WR60.AE.00.01A.K0213

*The company reserves the right to install updated Software versions to improve the performance ofthe appliance.

Place and date of issue (of this DoC): QingDao 2020/02/15

Signed by or for the manufacturer: Hisense Commercial Display Co.,Ltd.

Address: No.218, Qianwangang Road, Economy& Technology Development Zone, Qingdao, China

Title: Product manager Name (in print): Yanglin

UK Declaration of conformity(DoC)

UK Declaration of conformity (DoC)

Unique identification of this DoC: ZGB-DOC-20210820-001

Yang Lan

We, Declare under our sole responsibility that the product:

Product Name: Hisense Interactive Digital Board

Trade Name: Hisense Model: HN75WR80U

To which this declaration relates is in conformity with the essential requirements and other relevant requirements of the Radio Equipment Regulations 2017, The Ecodesign for Ener- gy-related Products Regulations 2010, Ecodesign for Energy-related Products and Energy Information Regulations 2021 (with respect to Ecodesign Requirements for Electronic Dis plays)& The Restriction of the Use of Certain Hazardous Substances in Electrical and Elec tronic Equipment Regulations 2012. The product is in conformity with the following standards and /or other normative documents:

Health & Safety (Art. 3(1)(a)): EN62311:2008

EN62368-1:2014+A11:2017

EMC (Art. 3(1)(b)): EN55032:2015

EN55035:2017 EN61000-3-2:2014 EN61000-3-3:2013

EN301489-1 V2.2.0:2017 EN301489-17 V3.2.0:2017

Spectrum (Art. 3(2)): EN300328 V2.2.2:2020

EN301893 V2.2.2:2020

ErP: EN50564:2011 IEC62087-1:2015

RoHS: EN50581:2012

Software *: HN75. V0000. WR80. U.00.01A. J1212

*The company reserves the right to install updated Software versions to improve the performance of the appliance.

Place and date of issue (of this DoC): QingDao 2021/08/20

Signed by or for the manufacturer: Hisense Commercial Display Co.,Ltd.

Address: No.218, Qianwangang Road, Economy& Technology Development Zone, Qingdao, China

Title: Product manager Name (in print): Yanglin

UK Local Representative

Alltrade Ltd.

Sussex House Business Park,274 Old Shoreham Road,

BRIGHTON & HOVE, BN3 7EU

UK Declaration of conformity(DoC)

UK Declaration of conformity (DoC)

Unique identification of this DoC: ZGB-DOC-20210820-001

Yanglan

We, Declare under our sole responsibility that the product:

Product Name: Hisense Interactive Digital Board

Trade Name: Hisense Model: 65WR60AE

To which this declaration relates is in conformity with the essential requirements and other relevant requirements of the Radio Equipment Regulations 2017, The Ecodesign for Ener- gy-related Products Regulations 2010, Ecodesign for Energy-related Products and Energy Information Regulations 2021 (with respect to Ecodesign Requirements for Electronic Dis plays)& The Restriction of the Use of Certain Hazardous Substances in Electrical and Elec tronic Equipment Regulations 2012. The product is in conformity with the following standards and /or other normative documents:

Health & Safety (Art. 3(1)(a)): EN 62311:2008

EN62368-1:2014+A11:2017

EMC (Art. 3(1)(b)): EN 55032:2015+A11:2020,class A

EN 55035:2017+A11:2020 EN IEC 61000-3-2:2019 EN 301 489-17 V3.2.4:2020 EN IEC 61000-3-2:2019+A1:2021

EN 61000-3-3: 2013+A1: 2019

Spectrum (Art. 3(2)): EN300328 V2.2.2:2019

EN301893 V2.1.1:2017

ErP: Transitional Test Method for Ecodesign and Energy Labelling requirements for electronic displays

RoHS: IEC 63000:2018

Software * 65. V0001.WR60.AE.00.01A.L1013

*The company reserves the right to install updated Software versions to improve the performance of the appliance.

Place and date of issue (of this DoC): QingDao 2021/08/20

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Title: Product manager Name (in print): Yanglin

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Yang Lan

We, Declare under our sole responsibility that the product:

Product Name: Hisense Interactive Digital Board

Trade Name: Hisense Model: 86WR60AE

To which this declaration relates is in conformity with the essential requirements and other relevant requirements of the Radio Equipment Regulations 2017, The Ecodesign for Ener- gy-related Products Regulations 2010, Ecodesign for Energy-related Products and Energy Information Regulations 2021 (with respect to Ecodesign Requirements for Electronic Dis plays)& The Restriction of the Use of Certain Hazardous Substances in Electrical and Elec tronic Equipment Regulations 2012. The product is in conformity with the following standards and /or other normative documents:

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EN62368-1:2014+A11:2017

EMC (Art. 3(1)(b)): EN55032:2015

EN55035:2017 EN61000-3-2:2014 EN61000-3-3:2013

EN301489-1 V2.2.0:2017 EN301489-17 V3.2.0:2017

Spectrum (Art. 3(2)): EN300328 V2.2.2:2020

EN301893 V2.2.2:2020

ErP: EN50564:2011 IEC62087-1:2015

RoHS: EN50581:2012

Software * 86.V0000.WR60.AE.00.01A.K0213

*The company reserves the right to install updated Software versions to improve the performance of the appliance.

Place and date of issue (of this DoC): QingDao 2021/08/20

Signed by or for the manufacturer: Hisense Commercial Display Co.,Ltd.

Address: No.218, Qianwangang Road, Economy& Technology Development Zone, Qingdao, China

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