

# **Hisense**

# **USER MANUAL**

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



## 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.



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



Class I product: 75"/ 86" 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.

### Stability Hazard

#### Warning!

The device set may fall, causing serious personal injury or death. To prevent injury, this device set must be securely attached to the wall in accordance with the installation instructions.

# 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 on the power cord is used as the disconnect device, the disconnect device and socket-outlet shall be easily accessible.



Apparatus with CLASS I construction(75"/ 86") shall be connected to a MAINS socket outlet with a protective earthing connection.

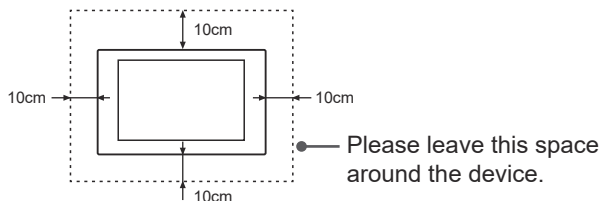


## Start Guide

### Precautions for Installation

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

When mounted on the wall:

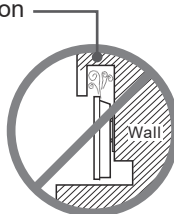


- When installing this device on a vertical wall, the distance A between the product and the wall should be kept at least 10cm to facilitate ventilation.



- Do not install the device as shown below.

Hinder air circulation



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



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# 1

## Accessories List

### NOTE

- Items may differ in different locations
- Display design and accessories may differ from the images shown.

Remote Control × 1

Battery(AAA) × 2

Quick Setup Guide × 1

Warranty Card×1(Optional)

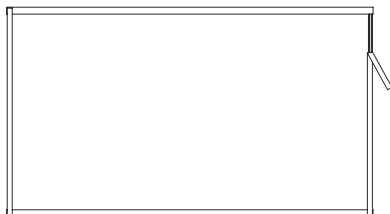
RS232 Converter Cable ×1(Optional)

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

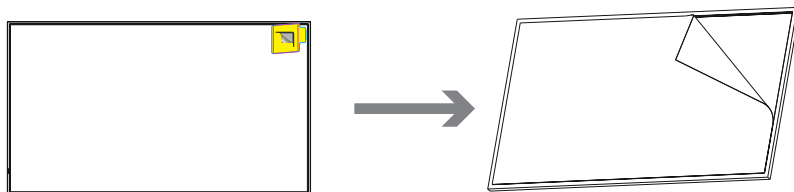
# 2

## Wall Mount (Optional)

1. Before installing the wall-mount bracket, first place the machine on a secure and clean desktop with soft protective cloth. Confirm that the desktop is solid and reliable since the machine is heavy.
2. Remove the wall-mount screws in the wall-mount holes of the rear shell. (Ignore this step in the absence of wall-mount screws. )
3. To avoid damage of the machine, please install the wall mount strictly in the sequence of rollers, wall-mount bracket and wall-mount screws.
4. Before hanging the machine, please confirm that the wall-mount bracket is installed securely without looseness.
5. Slowly peel off the protective tape around the front shell.

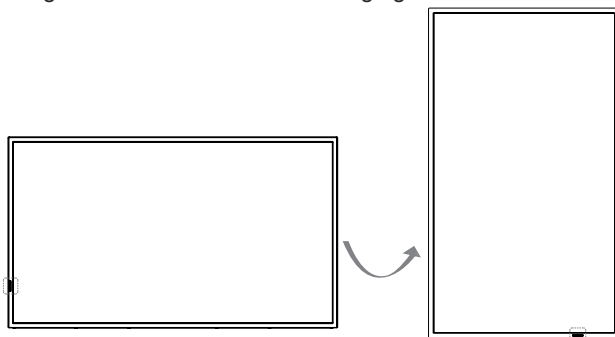


- 6 Slowly peel off the panel protective film on the machine by folding it 180 degrees along the torn film label.



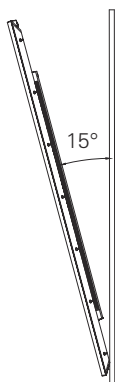
**【Statement】**

- To use this device in portrait mode, rotate it counterclockwise in reverse until the power indicator light is as shown in the following figure.



**【Note】**

- This device can tilt up to 15 degrees forward from a vertical wall.

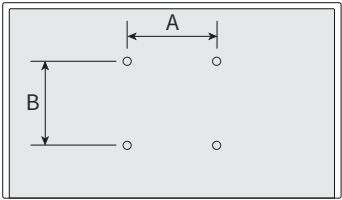


- The pictures are for reference only. For detailed information on installing wall mounted brackets, please refer to the manual provided with the wall mounted bracket.

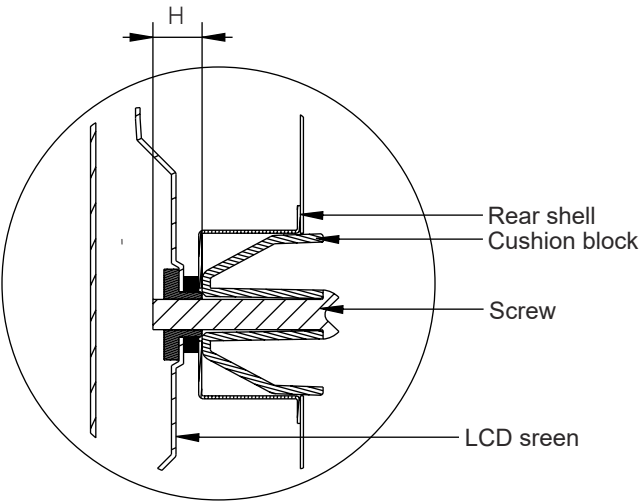
【Note】

- This machine is used in conjunction with Hisense LG400030D (32"/43"/50"/55"/65" ) and LG60060BE (75"/86") wall mounted brackets; Using non designated wall mounted brackets together may cause instability and injury.Product defects caused by unauthorized installation by Hisense are not covered by the warranty.
- If installation instructions are not followed or non Hisense authorized installation services or accessories are used, there may be safety hazards (including but not limited to product falling or falling off) and personal injury or property damage may occur. Such damage or loss is not caused by Hisense Company and should be borne by the corresponding party at fault.
- When using wall mounted installation, to avoid damage to the device or personal injury, please install at an angle of less than 15 ° on a vertical wall.

|                                   |                                                                              |
|-----------------------------------|------------------------------------------------------------------------------|
| VESA wall mount standard (mm)     | 200×200 (32")<br>300×300 (43"/50"/55")<br>400×400 (65")<br>600×400 (75"/86") |
| Diameter of wall-mount screw (mm) | M6                                                                           |
| Number of wall mounting holes     | 4                                                                            |



Schematic diagram of wall mounting holes



### 【Note】

- Only the installation specification of the wall mount is described here; the appearance of rear shell is for schematic purpose only.
- The screw installation depth in the wall-mount holes of the rear shell , H is : 8.0-10.0mm ( 32" ) ; 12.0-13.0mm ( 43"/75"/86" ) ; 11.0-12.5mm ( 50"/55"/65" ) ; overlong screws will cause irreparable damage to the equipment.
- If the intactness of the machine cannot be guaranteed during wall mounting, please contact professional installation personnel or technical support personnel.
- This wall mount is suitable for concrete and brick walls. For plank and plasterboard walls, special reinforcement is required instead of directly using the wall mount. Ensure that a single expansion bolt fixed in the wall can bear over 1/3 of the overall weight of the machine.

# 3

## Remote Control

| Button name | Button                                                                                                                                                                | Description                                                                                              |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| Power       |                                                                                      | Power on/off                                                                                             |
| Source      |                                                                                      | Input source menu                                                                                        |
| 0-9         |  -  | Number buttons.<br>Use to enter a PIN, enter a Date, etc.                                                |
| *           |                                                                                      |                                                                                                          |
| #           |                                                                                      |                                                                                                          |
| Rewind      |                                                                                      | Video playback page: rewind                                                                              |
| Stop        |                                                                                      | Video playback page: stop                                                                                |
| Play        |                                                                                      | Video play page: pause<br>Video pause page: play                                                         |
| Forward     |                                                                                      | Video playback page: forward                                                                             |
| Lock        |                                                                                      | Unlock the remote control<br>Key combination:<br>lock+ok+ok+lock                                         |
| Setting     |                                                                                      | Call the Settings menu                                                                                   |
| Up          |                                                                                      | Move to the upper menu                                                                                   |
| Down        |                                                                                      | Move to the lower menu                                                                                   |
| Left        |                                                                                    | Move to the left menu                                                                                    |
| Right       |                                                                                    | Move to the right menu                                                                                   |
| OK          | OK                                                                                                                                                                    | Confirm a menu selection.                                                                                |
| Back        |                                                                                    | Back to the previous menu                                                                                |
| Exit        |                                                                                    | Exit the current page                                                                                    |
| Volume +    |                                                                                    | Increase the volume by 1 and<br>pop up the volume bar                                                    |
| Volume -    |                                                                                    | Decrease the volume by 1 and<br>pop up the volume bar                                                    |
| Home        |                                                                                    | A shortcut button to Home screen                                                                         |
| Mute/Unmute |                                                                                    | Mute on: pop up the mute icon<br>Mute off: The mute icon disappears and the current volume is displayed. |

|                 |                                                                                   |                                                                                                                                                                          |
|-----------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BRI+            |   | Setting – Display - Picture mode<br>-Customization – Black grade                                                                                                         |
| BRI -           |                                                                                   |                                                                                                                                                                          |
| APPS            |  | Open all apps                                                                                                                                                            |
| White Balance   |  | Setting – Display – Advanced setting – White balance                                                                                                                     |
| Device Info     |  | Setting – System – About                                                                                                                                                 |
| File Manger     |  | Open File Manager                                                                                                                                                        |
| VisionInfo      |  | Open VisionInfo                                                                                                                                                          |
| Menu            |  | 1. In All Apps, Media Center and Media Autoplay pages, press "Menu" button to enter editing mode;<br>2. Press "menu"button on other pages to call out the shortcut menu. |
| Mutil-Screen    |  | Setting – Display – Multi-screen display                                                                                                                                 |
| Browser         |  | Open browser                                                                                                                                                             |
| Backlight       |  | Setting – Display - Brightness                                                                                                                                           |
| Screen Rotation |  | Setting – Display – Screen rotation                                                                                                                                      |
| Network         |  | Setting - Network                                                                                                                                                        |
| Sound mode      |  | Setting – Sound – Sound mode                                                                                                                                             |

## Battery replacement method

1. Please open the battery cover by separating it from the remote control body at the battery cover grommet.
2. Load two #7 1.5V alkaline batteries, noting that the positive (+) and negative (-) terminals of the batteries must match the positive (+) and negative (-) terminals in the battery compartment.
3. Close the battery cover from the bottom to the top until it fits perfectly into the remote control body.

## Effective range

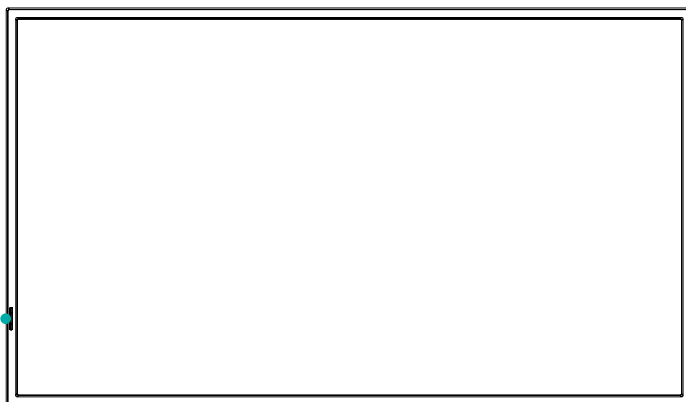
1. Remote Control Distance : Remote control is effective within 8 metres from the front.
2. Remote control angle: Take the remote control receiving window of this machine as the apex, at a distance of 6 metres, the controlled angle is not worse than  $\pm 30$  degrees in the left-right direction, and not worse than  $\pm 15$  degrees in the vertical up-down direction.

### 【Note】

- Replace the batteries if the remote control does not operate properly, is unstable or cannot control the unit remotely.
- If you do not use the remote control for a long time or if the batteries are exhausted, please remove the batteries. (Used batteries pollute the environment, so please dispose of them properly.)
- In order to achieve the best remote control reception effect, please point the remote control transmitter window to the remote control receiver window position of this unit for remote control operation.

# 4

## Control Panel



Remote sensor /  
Power indicator

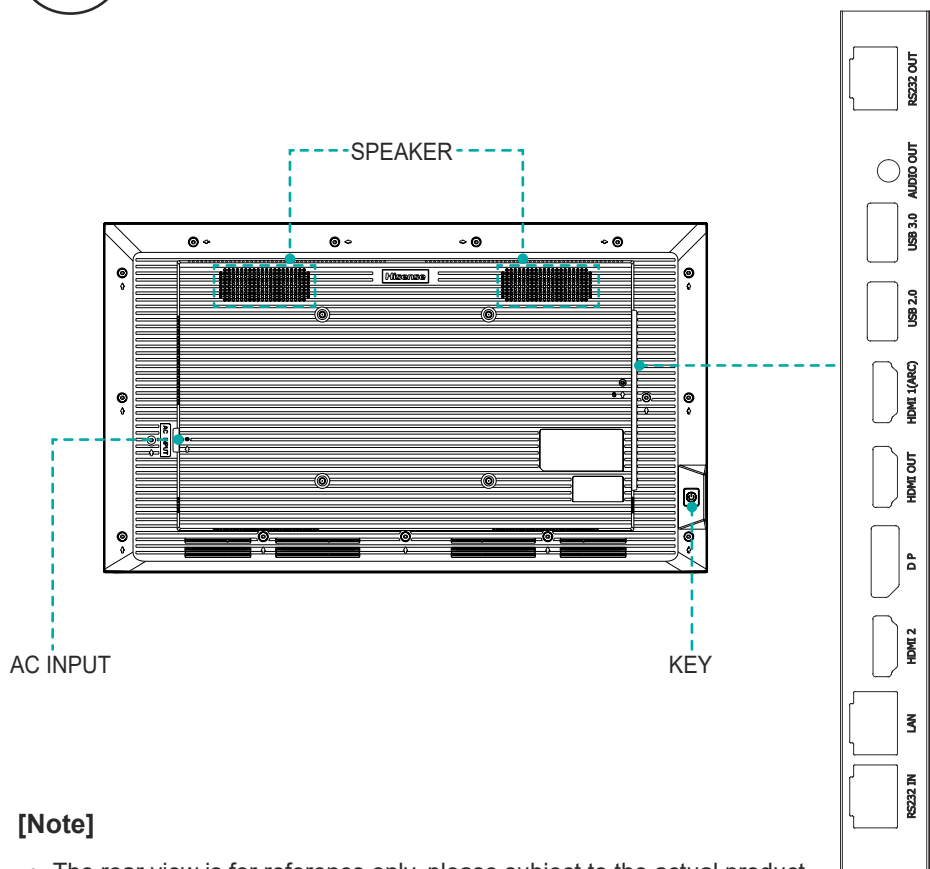
| Name/Operation  | Function                                                                                                     |
|-----------------|--------------------------------------------------------------------------------------------------------------|
| Remote receiver | Receive signals transmitted by the remote control via this window.                                           |
| Indicator       | When the machine is on, the indicator light is white; when it enters sleep mode, the indicator light is red. |

### [Note]

- The appearance is subject to the actual product.
- Since power outage and system processing takes some time, DO NOT power on and off the machine in rapid succession; otherwise the machine may work abnormally.

# 5

## Terminal Introduction



### [Note]

- The rear view is for reference only, please subject to the actual product.
- RS232 port: It is for serial communication control of the machine.
- It is possible that some external devices cannot be connected to the machine due to individual difference. In such case, please replace the signal line with a suitable one or add an adapter cable matching the port.

| Port Name  | Function descriptionunction                                                                                                                                   |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| USB2.0     | USB standard port is provided with this machine; it can also be used to connect a standard USB2.0 device, such as hard disk drive and USB flash drive.        |
| USB3.0     | USB standard port is provided with this machine; it can also be used to connect a standard USB2.0/USB3.0 device, such as hard disk drive and USB flash drive. |
| HDMI1(ARC) | It can be used to connect an external device with HDMI port, such as STB, player, or PC with HDMI output.                                                     |
| HDMI2      | It can be used to connect an external device with HDMI port, such as STB, player, or PC with HDMI output.                                                     |
| HDMI OUT   | When HDMI2 or DP has signal input, HDMI OUT can output HDMI2 or DP input signals; it can be used to connect other display device with HDMI port.              |
| LAN        | It can be used to connect a network cables so as to access the Internet.                                                                                      |
| RS232 OUT  | It is the output port of the serial communication command.                                                                                                    |
| RS232 IN   | It is the input port of the serial communication command.                                                                                                     |
| AUDIO OUT  | It can be used to connect a headphone.                                                                                                                        |
| DP         | It can be used to connect an external device with DP port.                                                                                                    |

### [Note]

- The rear view is for reference only, subject to the actual product.
- It is possible that some external devices cannot be connected to the machine due to individual difference. In such case, please replace the signal line with a suitable one or add an adapter cable matching the port.

# 6

## Initial Startup

### 1 Startup/Shutdown

- Connect the power cord of the machine to a 100-240V AC power outlet.
- In power-on state, press the **STANDBY key**  on the remote control; the machine will enter sleep mode. To watch normally, simply press again the **STANDBY key**  on the remote control.

#### [Note]

- After pull off the power cord, there should be an interval of at least 5s before restart to prevent abnormality of the machine.

### 2 Adjust Local Settings

Use of the setting function can satisfy your different needs and allow you to fully enjoy the audiovisual effect brought by the machine.

You can adjust image and sound, set network connection and perform other operations from here.

- In menus at different levels, you can perform the following operations using the remote control:

Press the **arrow keys** to select each option

Press the **OK key** to confirm operation or enter the sub-menu

Press the **LEFT/RIGHT key** to adjust values

Press the **UP/DOWN key** to adjust options

- Press the  **key** to go back to the previous menu.

# 7

## Setting

### 1 Calling Methods:

Press the  **SETTING button** on the remote control to enter the setting interface.

### 2 Setting:

#### Network

| 2nd                | 3rd                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ethernet           | Automatic IP acquisition | -Wired priority, connects automatically when wired is plugged in.<br>-Cannot be turned on when not connected to a wired network.<br>-By default, the IP address is obtained automatically.                                                                                                                                                                                                                                         |
|                    | Manual IP                | Users are connected to a wired network and can also manually configure an IP address for Internet access.                                                                                                                                                                                                                                                                                                                          |
|                    | MAC address              | Showcase a wired Mac                                                                                                                                                                                                                                                                                                                                                                                                               |
| Wi-Fi              | On/Off                   | The wireless network has two states: on and off, and is on by default.                                                                                                                                                                                                                                                                                                                                                             |
|                    | MAC address              | Showcase Wireless Mac Address                                                                                                                                                                                                                                                                                                                                                                                                      |
|                    | Available network        | Display a list of currently connectable WiFi.<br>-The WiFi list is automatically refreshed every 10s.<br>-Shows the current status of each SSID: Connected, Not Connected or No Internet Access.<br>-For connected networks, click to view the IP address (including the IPV6 address) or to disconnect; for unconnected networks, click to enter a password to connect, or open the Advanced Settings and select Manual Settings. |
|                    | Add other network        | Manually add the network you want to connect to.                                                                                                                                                                                                                                                                                                                                                                                   |
| Network Diagnostic |                          | Detects the current network connection status.                                                                                                                                                                                                                                                                                                                                                                                     |

|               |                   |                                                                                                                                                                                                                              |
|---------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hotspot       | On/Off            | <p>-The hotspot has two states, on and off, and is off by default.</p> <p>-Note: Hotspot and wireless network are mutually exclusive, i.e., if the hotspot is on, the wireless network is automatically off if it is on;</p> |
|               | Name and password | Enter the name and password of the hotspot you want to connect to                                                                                                                                                            |
|               | Advanced setting  | Users can select the encryption method and channel in the advanced settings                                                                                                                                                  |
| Bluetooth     | On/Off            | Bluetooth has both on and off states, and is off by default.                                                                                                                                                                 |
|               | Paired devices    | <p>-Show paired devices.</p> <p>-Note: Users can click on the device to cancel the pairing.</p>                                                                                                                              |
|               | Available devices | <p>-Show the list of currently searched Bluetooth devices.</p> <p>-Note: Users can perform pairing operation by clicking the device.</p>                                                                                     |
|               | Search Equipment  | Users can start the search function by clicking the "Available Devices" button to search for Bluetooth devices around them. Once a device is searched, it will be displayed in the "Available Devices" list.                 |
| Wi-Fi Display |                   | <p>-Support Miracast protocol.</p> <p>-Note: You need to open this page to search the device to cast screen.</p>                                                                                                             |

## Display

| 2nd             | 3rd                                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Brightness      |                                      | Backlight brightness, range 0-100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Auto adjust     |                                      | Automatically adjusts the brightness of the whole backlight according to the light sense, and is on by default.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Image mode      | Standard, Text, Bright, Natural, HDR | <p>-Normal videos correspond to five image modes: Standard, Bright, Natural, Text, and Customization.</p> <p>-When HDR video is played back, the image mode automatically switches to HDR standard mode.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                 | Customization                        | <p>-Black Level: This parameter has a value range of 0-100 and is used to describe the degree of black expression in the image.</p> <p>-Contrast: The value of this parameter ranges from 0 to 100 and is used to describe the contrast between light and dark of the image.</p> <p>-Chroma: The value of this parameter ranges from 0 to 100, and is used to describe the degree of colour performance of the image.</p> <p>-Sharpness: The value of this parameter ranges from 0 to 20, which is used to describe the degree of detail performance of the image.</p> <p>-Colour Temperature: This parameter has five grades, namely, Cool, Cooler, Standard, Warmer and Warmer, which are used to describe the tonal performance of the image.</p> <p>-Noise Reduction: This parameter has four levels, namely Off, Low, Medium and High, and the default level is Medium, which is used to describe the degree of noise reduction of the image.</p> |
| Screen rotation | Landscape                            | <p>-Rotation of the whole machine content, i.e. the signal display is rotated synchronously with the menu display.</p> <p>-Provides two angles, lanscape and vertical, the default is lanscape .</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                 | Vertical                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Menu rotation   | Landscape                            | -Only menu shows rotation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                 | Vertical                             | -Provides both lanscape and vertical angles, default lanscape.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

|                  |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Advanced setting | Zoom                    | <ul style="list-style-type: none"> <li>-Landscape screen: full screen, standard, zoom 1, zoom 2, point to point.</li> <li>-Vertical screen: full screen, custom.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                  | Dynamic Contrast        | On, off, default on.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                  | Luminance dynamic range | Auto, Limit, All, default Auto.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                  | White balance           | <p>Users can adjust the white balance of the video image</p> <ul style="list-style-type: none"> <li>-2-point and 10-point white balance can be selected for adjustment;</li> <li>-2-point white balance adjusts the white balance sub-items of the image: red gain, green gain, blue gain, red deviation, green deviation, blue deviation. The adjustment range is (-30 --- +30), and the default is 0.</li> <li>-10-point white balance adjusts the image's options including LEVEL selections: 1-10; red, green, blue, with an adjustment range of (-30 --- +30) and a default of 0.</li> </ul>                                                                                                                          |
|                  | Gamma                   | <ul style="list-style-type: none"> <li>-Adjust the centre brightness of the image.</li> <li>-The user has the option to turn gamma on or off. Sub options include: 1.8, 2.0, 2.2, 2.4.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                  | Colour correction       | <p>Users can adjust the colour of the video image.</p> <ol style="list-style-type: none"> <li>1. Adjustment sub-items: red, green, blue, cyan, yellow, purple, skin tone hue, colour saturation, brightness options.</li> <li>2. Adjustment range (-15 --- +15), default is 0.</li> <li>3. The setting effect takes effect instantly.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                           |
|                  | Multi-screen display    | <p>Used in multiple screen splicing scenarios.</p> <ol style="list-style-type: none"> <li>1. Set the position and display content of each screen through the four options of "Horizontal Ratio", "Vertical Ratio", "Screen Position" and "Edge Masking". Set the position and display content of each screen;</li> <li>2. Horizontal and vertical settings for the number of rows and columns of the splicing settings, the default is 1 row and 1 column, range 1-15.</li> <li>3. Screen Position is the position of the row and column where the screen is located.</li> <li>4. Edge Masking Setting sub-option for On and Off, default Off, when turned on, the splicing position image is used to crop off.</li> </ol> |
|                  | Image parameter reset   | Rest preset values for image settings.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

## Sound

| 2nd              | 3rd                                             | Description                                                                                                                                                                                                                                                                                                                          |
|------------------|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sound mode       | Standard, Cinema, Music, Meeting, Customization | <p>Users can adjust several sound modes preset by the unit: standard, cinema, music, meeting, customization.</p> <ol style="list-style-type: none"> <li>1.Default standard.</li> <li>2.Custom support 5-band equalisation adjustment: 120Hz, 500Hz, 1.5kHz, 5kHz, 10kHz.</li> </ol>                                                  |
| Output device    | Device speakers, HDMI ARC, USB sound equipment  | <p>Users can adjust the sound output device selection.</p> <ol style="list-style-type: none"> <li>1. Output devices include: device speakers, HDMI ARC, Bluetooth devices, USB audio devices</li> <li>2. Default native speakers.</li> </ol> <p>When a device type is selected, other types of audio devices do not output sound</p> |
| Advanced setting | Automatic volume control                        | <p>Users can adjust the automatic volume control switch.</p> <ol style="list-style-type: none"> <li>1. Adjustment items: on, off, default is off.</li> </ol>                                                                                                                                                                         |
|                  | Balance                                         | <p>Users can adjust the left/right balance of the sound output.</p> <ol style="list-style-type: none"> <li>1. Adjustment range -10 to 10, default 0.</li> </ol>                                                                                                                                                                      |
|                  | Maximum Volume/ Minimum Volume                  | <p>Users can set the maximum and minimum volume.</p>                                                                                                                                                                                                                                                                                 |
|                  | Sound parameter reset                           | <p>Users has the option to restore the sound settings to the factory preset state.</p>                                                                                                                                                                                                                                               |

## Switch on/off

| 2nd                  | 3rd                                                                           | Description                                                                                                                                                                                                                                          |
|----------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Switch-on source     | Memory, Home, HDMI1, HDMI2, DP, Media Autoplay                                | <ol style="list-style-type: none"> <li>1. Media autoplay option is displayed according to the playlist, it is not displayed when the playlist is empty.</li> <li>2. Default boot source is home.</li> </ol>                                          |
| Power on mode        | Boot, Standby, Last                                                           | Default boot.                                                                                                                                                                                                                                        |
| Wake-on LAN          | Switch on, switch off                                                         | <p>Users can wake up the whole machine through wired network.</p> <ol style="list-style-type: none"> <li>1. When it is on, you can wake up the whole machine through the network, and off, you can't wake up.</li> <li>2. Off by default.</li> </ol> |
| Sleep mode settings  | Switch on, switch off                                                         | Users can set whether or not to enter the hibernation state through the hibernation menu.                                                                                                                                                            |
| Turn-on delay        | Switch on, switch off                                                         | Sets the power-on delay default value. Setting range 2-255s.                                                                                                                                                                                         |
| Timed switch on/off  | Boot, Shutdown                                                                | Users can activate and deactivate the timer on/off function. The clock sets hours and minutes in a 24-hour manner, and up to three different switch-on/switch-off time points can be set per day (each switch is a time period).                     |
| No signal standby    | Off, 30S, 1 minute, 5 minutes, 10 minutes, 15 minutes, 30 minutes, 60 minutes | <p>Automatic standby with no signal from the source.</p> <p>Default 10 minutes.</p>                                                                                                                                                                  |
| No operation standby | Off, 10 minutes, 15 minutes, 30 minutes, 60 minutes, 90 minutes, 120 minutes  | <p>Auto standby for Android without operation.</p> <p>Default 15 minutes.</p>                                                                                                                                                                        |

## Signal management

| 2nd                | 3rd                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Failover           | switch on, switch off        | <p>The sub-options contain On and Off, with Off being the default. When on, you can select master signal source and slave signal source.</p> <ol style="list-style-type: none"> <li>1. Among the channels supported by the whole machine, select two signal sources as master signal source and slave signal source;</li> <li>2. When there is no signal from the master signal source and there is signal from the slave signal source, it will automatically jump to the slave signal source;</li> <li>3. When there is no signal from the master signal source and no signal from the slave signal source, out of the no signal screen saver;</li> <li>4. when the signal from the main signal source is restored, automatically switch to the main signal source;</li> <li>5. When the master signal source is not restored and the slave signal source is restored, automatically switch to the slave signal source;</li> </ol> |
| Auto switch source | switch on, switch off        | <p>The device automatically switches channels when it detects a new signal access.</p> <p>Enabled by default.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Automatic wake-up  | switch on, switch off        | <p>-Supports external signal for whole machine standby wake-up.</p> <p>-Enabled by default.</p> <p>-This option unifies the control of the standby wake-up function for HDMI and DP signals.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| HDMI version       | HDMI standard, HDMI enhanced | Default HDMI standard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

|                        |                    |                                                                                                                                                                                                  |
|------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HDMI CEC               | CEC switch         | <p>-On, off, default off.</p> <p>-When the control switch is on, the HDMI CEC control takes effect and the standby control, auto power on, and remote control switches are highlighted.</p>      |
|                        | Standby control    | <p>-On, off, default grey on.</p> <p>-When the whole machine is switched off by remote control, the external HDMI CEC device also enters the standby state.</p>                                  |
|                        | Automatic power-on | <p>-On, off, default set grey on.</p> <p>-When switching on the whole machine, the CEC device will automatically switch on after receiving the command from the whole machine.</p>               |
|                        | Remote control     | <p>-On, off, default grey on.</p> <p>-Through the remote control, you can control the external HDMI CEC device, such as up, down, left, right, OK, return.</p>                                   |
| Homepage setting       |                    | Users can customise the homepage according to their needs. Supports browsers, Screen Cast (provided that the multi-screen interactive service lock is on) and installed third-party applications |
| Serial port ID setting |                    | <p>-User can set the ID for serial communication through the setting menu.</p> <p>-ID setting data range is: 1-255.</p>                                                                          |

## System

| 2nd                         | 3rd                                                                                                                                                       | Description                                                                                                                     |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Language                    | Simplified Chinese, English, French, German, Polish, Sipan, Russian, Italian, Finnish, Norwegian, Swedish, Israeli, Arabic, Thai, Malay, Bahasa Indonesia | -Switches the system language.<br>-The default language is set according to the shipping country.                               |
| Input method                | kika input method                                                                                                                                         | Currently there is only one kika input method.                                                                                  |
| Country/Time zone selection |                                                                                                                                                           | Select country and time zone                                                                                                    |
| Time and date               | Network synchronization                                                                                                                                   | Select whether to enable network synchronisation of the system date and time.                                                   |
|                             | Date                                                                                                                                                      | Modify the system date.                                                                                                         |
|                             | Time                                                                                                                                                      | Modify the system time.                                                                                                         |
| Upgrade and update          | Device upgrade                                                                                                                                            | -Detect the availability of new system software versions through the network.<br>-Performs an OTA upgrade of the entire system. |
|                             | USB upgrade and update                                                                                                                                    | -Detect the availability of updatable system software through the USB port.<br>-Upgrade the whole system.                       |
|                             | USB differential upgrade                                                                                                                                  | Differential upgrade of the complete system via USB interface.                                                                  |
| Over temperature protection | Device internal temperature                                                                                                                               | Display the internal temperature of the unit.                                                                                   |
|                             | Primary protection                                                                                                                                        | On by default, automatically reduces backlight brightness by half when the temperature reaches 70 degrees Celsius.              |
|                             | Secondary protection                                                                                                                                      | (Forced on) Prompts to switch off when temperature reaches 90 degrees Celsius.                                                  |
|                             | Level 3 protection                                                                                                                                        | (Forced on) Automatically switches off when the temperature reaches 100 degrees Celsius.                                        |
| Reset                       |                                                                                                                                                           | Restore all options and hard disc space of the device to the initial default state.                                             |
| Disclaimer                  | User agreement                                                                                                                                            | Displaying user agreement.                                                                                                      |
|                             | Privacy policy                                                                                                                                            | Showcasing the privacy policy.                                                                                                  |

|       |                      |                                                                                                                                                        |
|-------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| About | Device name          | -Display the name of the local machine.<br>-The device name supports customisation.                                                                    |
|       | Serial number        | Display the SN code of unit.                                                                                                                           |
|       | Device ID            | Display device ID.                                                                                                                                     |
|       | Android version      | Display the current system Android version.                                                                                                            |
|       | System capacity      | Display system capacity.                                                                                                                               |
|       | Software version     | Display the current system software version number.                                                                                                    |
|       | Wired MAC            | Display wired mac.                                                                                                                                     |
|       | Wireless MAC         | -Display the mac address after connecting to the wireless network.<br>-Note: Display the default mac 02:00:00:00:00:00 when wireless is not connected. |
|       | Booting running time | Records and displays the power-on run time.                                                                                                            |
|       | Issue report         | Export logs to a storage device via the USB port.                                                                                                      |

**Serial Port State:** When the serial port is open, the machine can receive serial port commands sent by the external controller. See the table below for the specific command protocol.

### Data Parameters

| DM-SERIES          |      |
|--------------------|------|
| Baud Rate          | 9600 |
| Data length (bits) | 8    |
| Parity             | None |
| Stop bit           | 1    |
| Flow control       | None |

### Command Format

PC -> TV:

| Header<br>(2 Bytes) |    | Length<br>(2 Bytes) |  | Command<br>(4 Bytes) |  |  |  | Monitor ID<br>(1 Byte) | Data<br>(N Bytes) |  |  |  | Checksum<br>(1 Bytes) | End<br>(2 Bytes) |    |
|---------------------|----|---------------------|--|----------------------|--|--|--|------------------------|-------------------|--|--|--|-----------------------|------------------|----|
| DD                  | FF |                     |  |                      |  |  |  |                        |                   |  |  |  |                       | BB               | CC |

TV -> PC:

| Header<br>(2 Bytes) |    | Length<br>(2 Bytes) |  | Command<br>(4 Bytes) |  |  |  | Monitor ID<br>(1 Byte) | Data<br>(N Bytes) |  |  |  | Checksum<br>(1 Bytes) | End<br>(2 Bytes) |    |
|---------------------|----|---------------------|--|----------------------|--|--|--|------------------------|-------------------|--|--|--|-----------------------|------------------|----|
| AB                  | AB |                     |  |                      |  |  |  |                        |                   |  |  |  |                       | CD               | CD |

### [Note]

- Length is the number of bytes of Command, Data and Checksum.
- Checksum is XOR of Length, Command, Monitor ID and Data.

## RS232 Command

| Description             | Command (HEX Bytes)                             | Example (PC -> TV ID 01)                                                                                                                                                                                                                                      | TV -> PC                                                                                                                                                                                           |
|-------------------------|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power On                | DD FF 00 08 C1 15<br>00 00 xx BB BB yy<br>BB CC | DDFF0008C115000001<br>BBBBDDBBCC<br>Tips: The range of this<br>command's ID is 0x01-<br>0x34.                                                                                                                                                                 | AB AB 00 08 C1 15<br>00 00 xx BB BB yy<br>CD CD<br>When TV is in<br>standby state, send<br>this command will<br>get one feedback<br>from TV, once TV<br>starts up, it will send<br>feedback again. |
| Power Off               | DD FF 00 08 C1 15<br>00 00 xx AAAA yy<br>BB CC  | DD FF 00 08 C1 15 00 00<br>01 AAAA DD BB CC                                                                                                                                                                                                                   | AB AB 00 08 C1 15<br>00 00 xx AAAA yy<br>CD CD                                                                                                                                                     |
| Screen Off              | DD FF 00 07 C1 31<br>00 00 xx 00 yy BB<br>CC    | DD FF 00 07 C1 31 00 00<br>01 00 F6 BB CC                                                                                                                                                                                                                     | AB AB 00 07 C1 31<br>00 00 xx 00 yy CD<br>CD                                                                                                                                                       |
| Screen On               | DD FF 00 07 C1 31<br>00 00 xx 01 yy BB<br>CC    | DD FF 00 07 C1 31 00 00<br>01 01 F7 BB CC                                                                                                                                                                                                                     | AB AB 00 07 C1 31<br>00 00 xx 01 yy CD<br>CD                                                                                                                                                       |
| Reboot                  | DD FF 00 06 C1 1E<br>00 00 xx yy BB CC          | DD FF 00 06 C1 1E 00 00<br>01 D8 BB CC                                                                                                                                                                                                                        | AB AB 00 06 C1 1E<br>00 00 xx yy CD CD                                                                                                                                                             |
| Set AC Power<br>On Mode | DD FF 00 07 C1 FF<br>00 09 xx zz yy BB<br>CC    | DDFF0007C1FF00090<br>10031BBCC<br>zz: power on mode. 00<br>– direct, 01 – last, 02 –<br>standby<br>direct: DD FF 00 07 C1 FF<br>00 09 01 00 31 BB CC<br>last: DD FF 00 07 C1 FF 00<br>09 01 01 30 BB CC<br>standby: DD FF 00 07 C1<br>FF 00 09 01 02 33 BB CC | AB AB 00 07 C1 FF<br>00 09 xx zz yy CD<br>CD                                                                                                                                                       |
| DP Input                | DD FF 00 07 C1 08<br>00 00 xx 16 yy BB<br>CC    | DDFF0007C10800000116<br>D9BBCC                                                                                                                                                                                                                                | AB AB 00 07 C1 08<br>00 00 xx 16 yy CD<br>CD                                                                                                                                                       |
| VGA Input               | DD FF 00 07 C1 08<br>00 00 xx 17 yy BB<br>CC    | DDFF0007C10800000117<br>D8BBCC                                                                                                                                                                                                                                | AB AB 00 07 C1 08<br>00 00 xx 17 yy CD<br>CD                                                                                                                                                       |
| HDMI1 Input             | DD FF 00 07 C1 08<br>00 00 xx 0E yy BB<br>CC    | DDFF0007C1080000010<br>EC1BBCC                                                                                                                                                                                                                                | AB AB 00 07 C1 08<br>00 00 xx 0E yy CD<br>CD                                                                                                                                                       |
| HDMI2 Input             | DD FF 00 07 C1 08<br>00 00 xx 0F yy BB<br>CC    | DDFF0007C1080000010<br>FC0BBCC                                                                                                                                                                                                                                | AB AB 00 07 C1 08<br>00 00 xx 0F yy CD<br>CD                                                                                                                                                       |

|                                      |                                                                                                                       |                                                                                                        |                                                                                |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| PC Input                             | DD FF 00 07 C1 08<br>00 00 xx 0C yy BB<br>CC                                                                          | DDFF0007C1080000010<br>CC3BBCC                                                                         | AB AB 00 07 C1 08<br>00 00 xx 0C yy CD<br>CD                                   |
| DVI Input                            | DD FF 00 07 C1 08<br>00 00 xx 09 yy BB<br>CC                                                                          | DDFF0007C1080000010<br>9C6BBCC                                                                         | AB AB 00 07 C1 08<br>00 00 xx 09 yy CD<br>CD                                   |
| Set Screen Aspect Ratio              | DD FF 00 07 C1 35<br>00 00 xx zz yy BB<br>CC<br>Once this command is set, reboot TV, it will show with expected ratio | ex: set screep ratio 90 degrees<br>DDFF0007C1350000010<br>9FBBCC<br>zz = 00 - 0 degree, 01 - 90 degree | AB AB 00 07 C1 35<br>00 00 xx zz yy CD<br>CD                                   |
| Set Mute                             | DD FF 00 07 C1 26<br>00 00 xx 01 yy BB<br>CC                                                                          | DDFF0007C1260000010<br>1E0BBCC                                                                         | AB AB 00 07 C1 26<br>00 00 xx 01 yy CD<br>CD                                   |
| Set Unmute                           | DD FF 00 07 C1 26<br>00 00 xx 00 yy BB<br>CC                                                                          | DDFF0007C1260000010<br>0E1BBCC                                                                         | AB AB 00 07 C1 26<br>00 00 xx 00 yy CD<br>CD                                   |
| Set Volume                           | DD FF 00 07 C1 27<br>00 00 xx zz yy BB<br>CC                                                                          | DDFF0007C1270000010<br>1E1BBCC<br>zz: volume range 0-100                                               | AB AB 00 07 C1 27<br>00 00 xx zz yy CD<br>CD                                   |
| Set Backlight Brightness             | DD FF 00 08 C1 32<br>00 00 xx 06 zz yy BB<br>CC                                                                       | ex: set brightness to 32 - zz = 0x20<br>DDFF0008C1320000010<br>620DCBBCC                               | AB AB 00 08 C1 32<br>00 00 xx 06 zz CD<br>CD                                   |
| Set Backlight Brightness Auto Adjust | DD FF 00 07 C1 34<br>00 00 xx zz yy BB<br>CC                                                                          | ex: set brightness auto adust off<br>DDFF0007C1340000010<br>0F3BBCC<br>zz = 00 - off, 01 - on          | AB AB 00 07 C1 34<br>00 00 xx zz yy CD<br>CD                                   |
| Set Date                             | DD FF 00 09 C1 1C<br>00 00 xx zz zz yy BB CC                                                                          | ex: set date to 23.Jan.2<br>DDFF0009C11C0000011<br>7010<br>2C1BBCC<br>zz zz zz = Year Month Day        | AB AB 00 09 C1 1C<br>00 00 xx zz zz yy CD CD<br>zz zz zz = FF FF FF when error |
| Set Time                             | DD FF 00 09 C1 1D<br>00 00 xx zz zz yy BB CC                                                                          | ex: set time to 12:25:2<br>DDFF0009C11D0000010<br>C1902C3BBCC<br>zz zz zz = Hour Minute Second         | AB AB 00 09 C1 1D<br>00 00 xx zz zz yy CD CD<br>zz zz zz = FF FF FF when error |

|                            |                                                                                                |                                                                                                                                                                                                                                                                                                                 |                                                    |
|----------------------------|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| Set Schedule for Power On  | DD FF 00 09 C1 3E<br>00 00 xx tt zz zz yy<br>BB CC                                             | ex: power on at 9:10 every day<br>DDFF0009C13E0000010<br>1090AF5BBCC<br>tt = 00 - turn off schedule,<br>01 - everyday<br>zz zz = Hour Minute<br>Tips: If the device has been set to power on and off at a scheduled time, sending this command will clear the original settings, and leaving only the one sent. | AB AB 00 09 C1 3E<br>00 00 xx zz zz zz yy<br>CD CD |
| Set Schedule for Power Off | DD FF 00 09 C1 3F<br>00 00 xx tt zz zz yy<br>BB CC                                             | ex: power off at 18:10 every day<br>DDFF0009C13F0000010<br>1120AEFBCC<br>tt = 0 - turn off schedule, 1 - everyday<br>zz zz = Hour Minute<br>Tips: If the device has been set with a timed power on/off command, all previously set power on/off will be turned off                                              | AB AB 00 09 C1 3F<br>00 00 xx zz zz zz yy<br>CD CD |
| Set Brightness             | DD FF 00 07 C1 36<br>00 00 xx zz yy BB<br>CC                                                   | ex: set brightness to 32 - zz = 0x20<br>DDFF0007C1360000012<br>0D1BBCC                                                                                                                                                                                                                                          | AB AB 00 07 C1 36<br>00 00 xx zz yy CD<br>CD       |
| Set Contrast               | DD FF 00 07 C1 37<br>00 00 xx zz yy BB<br>CC<br>current source must be: DP, VGA, HDMI, PC, DVI | ex: set contrast to 32 - zz = 0x20<br>DDFF0007C1370000012<br>0D0BBCC                                                                                                                                                                                                                                            | AB AB 00 07 C1 37<br>00 00 xx zz yy CD<br>CD       |
| Set Sharpness              | DD FF 00 07 C1 38<br>00 00 xx zz yy BB<br>CC<br>current source must be: DP, VGA, HDMI, PC, DVI | ex: set sharpness to 32 - zz = 0x20<br>DDFF0007C1380000012<br>0DFBBCC                                                                                                                                                                                                                                           | AB AB 00 07 C1 38<br>00 00 xx zz yy CD<br>CD       |

|                         |                                                                                                |                                                                                                                                                                                                |                                              |
|-------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Set Color Temperature   | DD FF 00 07 C1 39<br>00 00 xx zz yy BB<br>CC<br>current source must be: DP, VGA, HDMI, PC, DVI | ex: set colour temperature to 32 - zz = 0x20<br>DDFF0007C1390000012<br>0DEBBCC                                                                                                                 | AB AB 00 07 C1 39<br>00 00 xx zz yy CD<br>CD |
| Set Noise Reduction     | DD FF 00 07 C1 3A<br>00 00 xx zz yy BB<br>CC<br>current source must be: DP, VGA, HDMI, PC, DVI | ex: set noise reduction to High - zz = 0x03<br>DDFF0007C13A0000010<br>3FEBBCC<br>zz = 01 - low, 02 - medium, 03 - high, 04 - auto, 00 – off                                                    | AB AB 00 07 C1 3A<br>00 00 xx zz yy CD<br>CD |
| Set Image Scaling       | DD FF 00 07 C1 3B<br>00 00 xx zz yy BB<br>CC<br>current source must be: DP, VGA, HDMI, PC, DVI | ex: set image scaling to Full - zz = 0x03<br>DDFF0007C13B0000010<br>3FFBBCC<br>zz = 00 - full, 01 - 16:9, 02 - 4:3, 03 - scaling 1, 04 - scaling 2, 05 - point to point                        | AB AB 00 07 C1 3B<br>00 00 xx zz yy CD<br>CD |
| Set Picture Mode        | DD FF 00 07 C1 0F<br>06 00 xx zz yy BB<br>CC                                                   | ex: set picture mode to movie mode - zz = 0x03<br>DDFF0007C10F0600010<br>30CBBCC<br>zz = 00 - standard, 01 - bright, 02 - soft, 03 - Movie, 04 - Text, 5 - gaming 12 – natural                 | AB AB 00 07 C1 0F<br>06 00 xx zz yy CD<br>CD |
| Set Sound Mode          | DD FF 00 07 C1 FF<br>00 03 xx zz yy BB<br>CC                                                   | ex: set sound mode to standard mode - zz = 0x00<br>DDFF0007C1FF0003010<br>03BBBCC<br>zz = 00 - standard, 01 - music, 02 - news, 08 - movie, 10 - sports, 20 - custom, 30 - voice, 40 - meeting | AB AB 00 07 C1 FF<br>00 03 xx zz yy CD<br>CD |
| Set Eye Protection Mode | DD FF 00 07 C1 FF<br>00 1E xx zz yy BB<br>CC                                                   | ex: set eye protection mode on - zz = 0x01<br>DDFF0007C1FF001E010<br>127BBCC<br>zz = 00 - off, 01 - on                                                                                         | AB AB 00 07 C1 FF<br>00 1E xx zz yy CD<br>CD |
| VGA Auto Adjust         | DD FF 00 07 C1 01<br>00 00 xx yy BB CC<br>current source must be VGA                           | ex: VGA Auto Adjust<br>DDFF0007C101000001C<br>6BBCC<br>zz = 00 - off, 01 – on                                                                                                                  | AB AB 00 07 C1 01<br>00 00 xx yy CD CD       |

|                                    |                                                     |                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                      |   |   |   |   |   |   |   |   |   |    |    |    |
|------------------------------------|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|---|---|---|---|---|----|----|----|
| Set anti-burn-in (image retention) | DD FF 00 07 C1 33<br>00 00 xx zz yy BB<br>CC        | ex: set anti-burn-in on<br>DDFF0007C1330000010<br>1F4BBCC<br>zz = 00 - off, 01 - on                                                                                                                                                                                                              | AB AB 00 07 C1 33<br>00 00 xx zz yy CD<br>CD                                                                                                                                                                                         |   |   |   |   |   |   |   |   |   |    |    |    |
| Set Power on delay                 | DD FF 00 07 C1 3C<br>00 00 xx zz yy BB<br>CC        | ex: set power on delay to<br>10s<br>DDFF0007C13C0000010<br>AF1BBCC<br>zz = 00 - off, others - delay<br>time, range: 2s - 255s                                                                                                                                                                    | AB AB 00 07 C1 3C<br>00 00 xx zz yy CD<br>CD                                                                                                                                                                                         |   |   |   |   |   |   |   |   |   |    |    |    |
| Set Video Wall                     | DD FF 00 09 C1 0A<br>00 00 xx zz zz zz yy<br>BB CC  | ex: vertical 3 devices,<br>horizontal 4 devices, device<br>position: 6<br>DDFF0009C10A0000010<br>30406C2BBCC<br>zz: how many devices in<br>vertical<br>zz: how many devices in<br>horizontal<br>zz: current device position                                                                      | AB AB 00 09 C1 0A<br>00 00 xx zz zz zz yy<br>CD CD<br><table><tr><td>1</td><td>2</td><td>3</td></tr><tr><td>4</td><td>5</td><td>6</td></tr><tr><td>7</td><td>8</td><td>9</td></tr><tr><td>10</td><td>11</td><td>12</td></tr></table> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 1                                  | 2                                                   | 3                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                      |   |   |   |   |   |   |   |   |   |    |    |    |
| 4                                  | 5                                                   | 6                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                      |   |   |   |   |   |   |   |   |   |    |    |    |
| 7                                  | 8                                                   | 9                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                      |   |   |   |   |   |   |   |   |   |    |    |    |
| 10                                 | 11                                                  | 12                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                      |   |   |   |   |   |   |   |   |   |    |    |    |
| Set Static IP Address of LAN       | DD FF 00 16 C1 1B<br>30 00 xx zz ... zz yy<br>BB CC | Ex: set IP 10.16.150.225,<br>subnet mask:<br>255.255.248.0, gateway:<br>10.16.144.1, DNS:<br>10.16.144.2<br>DDFF0016C11B3000010<br>A1096E1FFFFFF8000A10<br>90010<br>A10900249BBCC<br>zz .. zz - 16 bytes, IP<br>address - 4 bytes, Subnet<br>mask - 4 bytes, gateway - 4<br>bytes, DNS - 4 bytes | AB AB 00 16 C1 1B<br>30 00 xx zz ... zz yy<br>CD CD                                                                                                                                                                                  |   |   |   |   |   |   |   |   |   |    |    |    |
| Set USB Lock                       | DD FF 00 07 C1 FF<br>00 0E xx zz yy BB<br>CC        | ex: lock USB<br>DDFF0007C1FF000E010<br>036BBCC<br>zz = 00 - lock USB, 01 -<br>enable USB                                                                                                                                                                                                         | AB AB 00 07 C1 FF<br>00 0E xx zz yy CD<br>CD                                                                                                                                                                                         |   |   |   |   |   |   |   |   |   |    |    |    |
| Factory Reset                      | DD FF 00 06 C1 10<br>00 00 xx yy BB CC              | DDFF0006C110000001D<br>6BBCC                                                                                                                                                                                                                                                                     | AB AB 00 06 C1 10<br>00 00 xx yy CD CD                                                                                                                                                                                               |   |   |   |   |   |   |   |   |   |    |    |    |

|                            |                                        |                              |                                                                                                                                                                                                                                                                                                                                                             |
|----------------------------|----------------------------------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Query TV Status            | DD FF 00 06 C1 28<br>00 00 xx yy BB CC | DDFF0006C128000001E<br>EBBCC | AB AB 00 0C C1 28<br>00 00 xx zz zz zz zz<br>zz zz yy CD CD<br>zz: volume<br>zz zz: 05 01 - PC, 05<br>02 - DVI, 05 03 - DP,<br>05 04 - HDMI2, 05<br>05 - HDMI1, 08 01 -<br>VGA<br>zz: 00 - power on,<br>FF - power off<br>zz: 01 - mute; 00 -<br>unmute<br>zz: 00 - no signal, 01<br>- has signal                                                           |
| Query Screen Status        | DD FF 00 06 C1 32<br>00 01 xx yy BB CC | DDFF0006C110000001D<br>6BBCC | AB AB 00 07 C1 32<br>00 01 xx zz yy CD<br>CD<br>zz: 00 - screen off;<br>01 - screen on                                                                                                                                                                                                                                                                      |
| Query Source               | DD FF 00 06 C1 1A<br>00 00 xx yy BB CC | DDFF0006C11A000001D<br>CBBCC | AB AB 00 08 C1 1A<br>00 00 xx zz zz yy<br>CD CD<br>zz zz - source, refer<br>to user menu for<br>source definition                                                                                                                                                                                                                                           |
| Query SW Version           | DD FF 00 06 C1 1B<br>00 00 xx yy BB CC | DDFF0006C11B000001D<br>DBBCC | AB AB 00 09 C1 1B<br>00 00 xx zz zz zz yy<br>CD CD<br>zz zz zz - Year<br>Month Date                                                                                                                                                                                                                                                                         |
| Query Backlight Brightness | DD FF 00 06 C1 3E<br>00 24 xx yy BB CC | DDFF0006C13E000001F<br>8BBCC | AB AB 00 LL C1 3E 00<br>24 xx zz zz yy CD CD<br>zz: 01 - bright, 02 -<br>soft, 03 - auto adjust,<br>04 - stereo frequency<br>conversion, 05 -<br>Comfort frequency<br>conversion, 06 -<br>custom<br>zz: when first zz is<br>06 custom, this byte<br>means backlight<br>brightness value: 0-30<br>LL: when first zz is zz,<br>LL = 08, otherwise, LL<br>= 07 |

|                          |                                        |                                        |                                                                                                                                                                          |
|--------------------------|----------------------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Query Brightness         | DD FF 00 06 C1 36<br>00 01 xx yy BB CC | DDFF0006C136000101F<br>0BBCC           | AB AB 00 07 C1 36<br>00 01 xx zz yy CD<br>CD<br>zz is the brightness<br>value                                                                                            |
| Query Network Status     | DD FF 00 06 C1 FF<br>00 16 xx yy BB CC | DDFF0006C1FF0016012<br>FBBCC           | AB AB 00 07 C1 FF<br>00 16 xx zz yy CD<br>CD<br>zz: 00 - no network<br>connection; 01 -<br>network connected                                                             |
| Query Sound Mode         | DD FF 00 06 C1 FF<br>00 02 xx yy BB CC | DDFF0006C1FF0002013<br>BBBCC           | AB AB 00 07 C1 FF<br>00 02 xx zz yy CD<br>CD<br>zz = 00 - standard,<br>01 - music, 02 -<br>news, 08 - movie,<br>10 - sports, 20 -<br>custom, 30 - voice,<br>40 - meeting |
| Query AC Power On Status | DD FF 00 06 C1 FF<br>00 08 xx yy BB CC | DDFF0006C1FF0008013<br>1BBCC           | AB AB 00 07 C1 FF<br>00 08 xx zz yy CD<br>CD<br>zz: 00 - power on;<br>01 - Last mode; 02 -<br>standby                                                                    |
| Query IP Address         | DD FF 00 06 C1 1B<br>20 00 xx yy BB CC | DDFF0006C11B200001F<br>DBBCC           | AB AB 00 16 C1 1B<br>20 00 xx zz ... zz yy<br>CD CD<br>zz zz zz zz - IP<br>address<br>zz zz zz zz - Subnet<br>mask<br>zz zz zz zz Gateway<br>zz zz zz zz - DNS           |
| Query Device Temperature | DD FF 00 06 C1 FE<br>00 00 xx yy BB CC | DDFF0006C1FE0000013<br>8BBCC           | AB AB 00 07 C1 FE<br>00 00 xx zz yy CD<br>CD<br>zz: temperature in<br>centigrade                                                                                         |
| Query Picture Mode       | DD FF 00 06 C1 6D<br>00 00 xx yy BB CC | DD FF 00 06 C1 6D 00 00<br>64 CE BB CC | AB AB 00 07 C1 6D<br>00 00 xx zz yy CD<br>CD<br>zz: 00 – standard, 01<br>– bright, 06 – AI, 07 –<br>user, 02 – soft, 03 –<br>movie, 04 – text, 05 –<br>game, 12- nature  |

|                           |                                        |                                        |                                                                                                                           |
|---------------------------|----------------------------------------|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Query USB Status          | DD FF 00 06 C1 6E<br>00 00 xx yy BB CC | DD FF 00 06 C1 6E 00 00<br>64 CD BB CC | AB AB 00 07 C1 6E<br>00 00 xx zz yy CD<br>CD<br>zz: 00 - off, 01 - on                                                     |
| Query Eye Protection Mode | DD FF 00 06 C1 FF<br>00 1D xx yy BB CC | DDFF0006C1FF001D012<br>4BBCC           | AB AB 00 07 C1 FF<br>00 1D xx zz yy CD<br>CD<br>zz: 00 - Off; 01 - On                                                     |
| Query SN                  | DD FF 00 06 C1 FF<br>00 0B xx yy BB CC | DDFF0006C1FF000B013<br>2BBCC           | AB AB 00 1D C1 FF<br>00 0B xx zz...zz yy<br>CD CD<br>zz .. zz: 23 bytes<br>serial number                                  |
| Query Device ID           | DD FF 00 06 C1 FF<br>00 0D xx yy BB CC | DDFF0006C1FF000D013<br>4BBCC           | AB AB 00 26 C1 FF<br>00 0D xx zz...zz yy<br>CD CD<br>zz .. zz: 32 bytes<br>device ID                                      |
| Query MAC Address         | DD FF 00 06 C1 6C<br>00 00 xx yy BB CC | DDFF0006C16C000001A<br>ABBCC           | AB AB 00 0C C1 6C<br>00 00 xx zz...zz yy<br>CD CD<br>zz .. zz: 6 bytes                                                    |
| Query volume              | DD FF 00 06 C1 7D<br>00 00 xx yy BB CC | DD FF 00 06 C1 7D 00 00<br>64 DE BB CC | AB AB 00 07 C1 7D<br>00 00 xx zz yy CD<br>CD<br>zz: volume                                                                |
| Query Serial Port ID      | DD FF 00 06 C1 1B<br>10 00 xx yy BB CC | DD FF 00 06 C1 1B 10 00<br>64 A8 BB CC | AB AB 00 06 C1 1B<br>10 00 xx zz yy CD<br>CD<br>zz: serial port ID.<br>Settings -> signal<br>manager -> serial<br>port ID |
| Query brand               | DD FF 00 06 C1 FE<br>00 01 xx yy BB CC | DD FF 00 06 C1 FE 00 01<br>64 5C BB CC | AB AB 00 06 C1 FE<br>00 01 xx zz...zz yy<br>CD CD<br>zz...zz: brand. ex:<br>hisense (ASCII)                               |
| Query model               | DD FF 00 06 C1 FE<br>00 02 xx yy BB CC | DD FF 00 06 C1 FE 00 02<br>64 5F BB CC | AB AB 00 06 C1 FE<br>00 02 xx zz...zz yy<br>CD CD<br>zz...zz: model name                                                  |

|                                 |                                              |                                                                                                                                                                                                                |                                              |
|---------------------------------|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Send Remote Controller Key Code | DD FF 00 08 C1 17<br>00 00 xx zz yy BB<br>CC | ex: send menu key: zz zz =<br>00 00<br>DDFF0008C1170000010<br>000DFBBCC<br>zz zz = 00 00 - Menu; 00<br>01 - UP, 00 02 - DOWN,<br>00 03 - LEFT, 00 04 -<br>RIGHT, 00 05 - OK, 00<br>06 - Return, 00 07 - Source | AB AB 00 08 C1 17<br>00 00 xx zz yy CD<br>CD |
| Open Settings                   | DD FF 00 06 C1 41<br>00 00 xx yy BB CC       |                                                                                                                                                                                                                | AB AB 00 06 C1 41<br>00 00 xx yy CD CD       |
| Open Home                       | DD FF 00 06 C1 FF<br>00 1A xx yy BB CC       | DDFF0006C1FF001A<br>0123BBCC                                                                                                                                                                                   | AB AB 00 06 C1 FF<br>00 1A xx yy CD CD       |
| Open CMS                        | DD FF 00 06 C1 FF<br>00 13 xx yy BB CC       | DDFF0006C1FF0013012<br>ABBCC                                                                                                                                                                                   | AB AB 00 06 C1 FF<br>00 13 xx yy CD CD       |
| Open ScreenShare                | DD FF 00 06 C1 43<br>00 00 xx yy BB CC       | DDFF0006C1430000018<br>5BBCC                                                                                                                                                                                   | AB AB 00 06 C1 43<br>00 00 xx yy CD CD       |
| Turn on Hotspot                 | DD FF 00 06 C1 44<br>00 00 xx yy BB CC       | DDFF0006C1440000018<br>2BBCC                                                                                                                                                                                   | AB AB 00 06 C1 44<br>00 00 xx yy CD CD       |
| Take Screenshot                 | DD FF 00 06 C1 4B<br>00 00 xx yy BB CC       | DDFF0006C14B0000018<br>DBBCC                                                                                                                                                                                   | AB AB 00 06 C1 4B<br>00 00 xx yy CD CD       |
| Freeze Screen                   | DD FF 00 07 C1 0F<br>08 00 xx zz yy BB<br>CC | DD FF 00 07 C1 0F 08 00<br>01 01 C1 BB CC<br>zz = 01 - freeze; 00 –<br>unfreeze                                                                                                                                | AB AB 00 07 C1 0F<br>08 00 xx zz yy CD<br>CD |

## [Note]

- The range of BoardID is from 01 to FF, supporting 255 machines to be networked together. 00 is the broadcast address, the commands issued by this ID will be executed by all MFPs, but the commands will not be returned.
- When all the commands received from TV terminal are returned to PC terminal, the start code should be changed to AB AB, and the end code should be changed to CD CD.
- Note for programming of control terminal: For power-on instruction, after power-on action is executed, it returns AB AB 00 08 C1 15 00 00 XX BB BB XX CD CD (refer to the above table for the meaning of XX); if the instruction is not received, it is necessary to send the power-on instruction again. after TV is turned on, the PC will receive AB AB 00 08 C1 15 00 00 00 XX BB BB XX CD CD again, and then the PC can send the control instruction. After the TV is switched on, the PC will receive the command again, then the PC can send control commands to the TV; if any command is not returned correctly, the interval between sending the command again should be more than 500ms.
- When TV is in sleep state, only power-on command and query command are supported.

# 9

## Miscellaneous

### 1 Troubleshooting

Before preparation for repair, please check the following table to see if the cause of problem you are encountering can be found.

If the problem still exists when you confirm that you are operating the product in strict accordance with the this manual, you can consider contacting professional service personnel for repair.

| Symptom                                   | Solution                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| No sound or image                         | <ul style="list-style-type: none"> <li>• Check whether the power cord is connected to a wall outlet and whether the outlet is energized.</li> <li>• Check whether the power key is pressed.</li> <li>• Check the volume setting or whether it is muted.</li> </ul>                                                                                                                                                                    |
| Sound and image interference              | <ul style="list-style-type: none"> <li>• Try finding out the electrical appliance affecting the machine, and keep it away from the machine.</li> <li>• Try inserting the power plug of the machine to another power outlet.</li> </ul>                                                                                                                                                                                                |
| Blurred or snowy screen, image distortion | <ul style="list-style-type: none"> <li>• Check the position and connection of signal line.</li> </ul>                                                                                                                                                                                                                                                                                                                                 |
| Malfunction of remote control             | <ul style="list-style-type: none"> <li>• Replace the batteries in the remote control.</li> <li>• After removing the batteries, press any key several times, and then install new batteries.</li> <li>• Check the battery contacts.</li> <li>• Check whether any obstruction exists between the display screen and the remote control.</li> <li>• Check whether the anode and cathode of batteries are correctly installed.</li> </ul> |

### 2 Related Instructions

**HDMI™** HDMI, 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.

#### [Statement]

- The pictures and descriptions in this manual are for reference only, please subject to our available products. (This statement is valid throughout this manual)
- Quality upgrade, product design and specification are subject to change without prior notice.
- The software content services applying to this product depend on the third-party provider. It is possible that partial software cannot be used due to network, region, service period or other problems, which has nothing to do with the product quality. Please contact the third-party provider for relevant details.

# 10 Specifications

| Model                             |                  | 32"               | 43"               | 50"               |
|-----------------------------------|------------------|-------------------|-------------------|-------------------|
| Product name                      |                  | Digital Signage   |                   |                   |
| Size (mm)<br>(W×H×D)              | excluding handle | 726.0×420.6×61.5  | 970.4×557.5×62.8  | 1124.1×644.2×62.5 |
|                                   | including handle | \                 | \                 | \                 |
| Product weight (kg)               |                  | 4.6               | 8.5               | 11.0              |
| Visual picture diagonal size (cm) |                  | 80                | 108               | 126               |
| Display resolution                |                  | 1920×1080         | 3840×2160         | 3840×2160         |
| Product power                     |                  | 110W              | 130W              | 170W              |
| Sound power                       |                  | 7W+7W             | 10W+10W           | 10W+10W           |
| Model                             |                  | 55"               | 65"               | 75"               |
| Product name                      |                  | Digital Signage   |                   |                   |
| Size (mm)<br>(W×H×D)              | excluding handle | 1239.7×710.2×63.3 | 1458.9×832.8×63.7 | 1675.3×955.1×63.7 |
|                                   | including handle | \                 | \                 | 1675.3×955.1×88.4 |
| Product weight (kg)               |                  | 13.9              | 21.5              | 29.0              |
| Visual picture diagonal size (cm) |                  | 139               | 164               | 189               |
| Display resolution                |                  | 3840×2160         | 3840×2160         | 3840×2160         |
| Product power                     |                  | 200W              | 240W              | 320W              |
| Sound power                       |                  | 10W+10W           | 10W+10W           | 10W+10W           |

|                                      |                     |                                                                                                        |
|--------------------------------------|---------------------|--------------------------------------------------------------------------------------------------------|
| Model                                |                     | 86"                                                                                                    |
| Product name                         |                     | Digital Signage                                                                                        |
| Size (mm)<br>(W×H×D)                 | excluding<br>handle | 1926.6×1095.5×64.2                                                                                     |
|                                      | including<br>handle | 1926.6×1095.5×89.1                                                                                     |
| Product weight (kg)                  |                     | 38.2                                                                                                   |
| Visual picture<br>diagonal size (cm) |                     | 217                                                                                                    |
| Display resolution                   |                     | 3840×2160                                                                                              |
| Product power                        |                     | 360W                                                                                                   |
| Sound power                          |                     | 10W+10W                                                                                                |
| Executive standard                   |                     | Q/0202RSR 615                                                                                          |
| Power supply                         |                     | 100-240V ~ 50/60Hz                                                                                     |
| Environmental<br>conditions          |                     | Operating temperature: 0°C~40°C<br>Operating humidity: 10%~80%RH<br>Atmospheric pressure: 86kPa~106kPa |

### Signal Formats Supported by DP Port

|          |                                                                                            |
|----------|--------------------------------------------------------------------------------------------|
| RGB/60Hz | 640×480、800×600、1024×768、1280×720、1280×1024、1360×768、1366×768、1600×900、1920×1080、3840×2160 |
| YUV/50Hz | 720p、1080i、1080p                                                                           |
| YUV/60Hz | 720p、1080i、1080p                                                                           |

### Signal Formats Supported by HDMI Port

|          |                                                                                                     |
|----------|-----------------------------------------------------------------------------------------------------|
| RGB/60Hz | 640×480、800×600、1024×768、1280×720、1280×1024、1360×768、1366×768、1440×900、1600×900、1920×1080、3840×2160 |
| YUV/50Hz | 576i、576p、720p、1080i、1080p                                                                          |
| YUV/60Hz | 480i、480p、720p、1080i、1080p                                                                          |

### Multimedia Formats Supported by USB Port

|                     |                                                                                          |
|---------------------|------------------------------------------------------------------------------------------|
| Video coding format | VP9 / HEVC / H265 / MPEG1 / MPEG2 / MPEG4 / SorensomH.263 / H263 / H264 / AVS            |
| Audio coding format | MP3 / AVI / ASF / MKA / MKV / 3gpp / 3gp / mp4 / m4a / flv / wav / ts / mpg / mpeg       |
| Picture format      | JPEG,BMP,PNG ( The limitation of max resolution depends on DRAM size, up to 15360x8640 ) |