ProScene All-in-One LED Display

User manual

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PREFACE

Please read this manual carefully before making any adjustments and retain it for future reference.

Images in the manual are for reference only. If any details in this document are unclear, please contact your local representative for more information.

Operational Precautions

The interior design of AIO LED display screen is very sophisticated, and has limited dustproof/waterproof capability. Please follow the precautions during installation and use.

- Screen storage/working environment requirements:
  - Storage temperature: -20°C~40°C (-4°F~104°F); Relative humidity: 10%~65%;
  - Working temperature: -10°C~40°C (14°F~104°F); Relative humidity: 10%~80%;
- Installation requirements:
  - Installation area of LED display screen should be free from leakages or under the air conditioner outlet to avoid damage of LED devices and oxidation of circuit board caused by moisture or condensation. The installation environment humidity must be less than 60% (non-condensation state). It is recommended to install a dehumidifier in the environment to control the humidity.
  - Do not place this screen in these environments as the screen could be susceptible to the following: Metal Dust (which could cause damage to the screen and circuit boards), excessive dust and or dusty conditions (which could affect the screen performance).
- Cleaning requirements:

  IMPORTANT! *Ensure the LED display is completely powered off before starting the cleaning or maintenance process.*

  - This display uses Chip-on-board (COB) technology. For daily cleaning process, do the following:

    a) Power off the LED display.

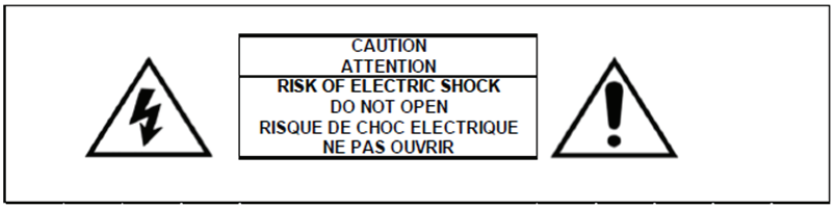
    b) Use a slightly dampened cloth with water to gently wipe the screen.

    IMPORTANT! *Avoid using unknown chemicals and solvents to wipe the screen.*

SAFETY

Please follow all warnings, precautions and maintenance as recommended in this user manual.

Safety Instructions



- Always ensure that the unit is properly earthed and power connections are secured correctly.
- Only use attachments/accessories specified by the manufacturer.
- Do not block any ventilation openings. To ensure reliable operation of the device and to protect from overheating, it is recommended to install the device in a location that does not block ventilation. Do not put the device in an enclosure such as a book case or a cabinet that restricts air flow.
- Do not use the device near water or moisture. To reduce the risk of fire and/or electric shock, do not expose the device to rain or moisture.
- Do not install near heat sources such as radiators, heaters, stoves or any other apparatus, such as amplifiers, that emits heat.
- Do not let objects or liquids enter the device. They may touch dangerous voltage ports or short out parts that could result in fire or electric shock.
- Do not place the device on an unstable, uneven surface. The device may fall over, resulting in injury or damage to the device.
- Do not setup the device in places where it might be subject to vibration or shock.
- Do not use any hard or sharp object to operate the screen.
- Do not use the device if it has been physically damaged. Physical damage would be (but not limited to):
  - The device has been dropped.
  - Power supply cord or plug has been damaged.
  - Liquid has been spilled on the device.
  - The device has been exposed to rain or moisture.
  - Something has fallen into the device or something is loose inside.
- Do not attempt to service the device yourself. Opening or removing covers may expose you to dangerous voltages or other hazards. Please call Optoma before you send the device for repair.
- Disconnect the power plug from AC outlet if the device is not being used for a long period of time.
- Remove the batteries from the remote control before storage. If the batteries are left in the remote for long periods, they may leak.
- Turn off and unplug the power plug from the AC outlet before cleaning the device.
- Use a soft dry cloth to clean the display housing. Do not use abrasive cleaners, waxes or solvents to clean the device.
- See the device enclosure for safety related markings.
- The device should only be repaired by appropriate service personnel.
- Always power off and unplug all cables before moving the display.

Copyright

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Disclaimer

The information in this document is subject to change without notice. The manufacturer makes no representations or warranties with respect to the contents hereof and specifically disclaims any implied warranties of merchantability or fitness for any particular purpose. The manufacturer reserves the right to revise this publication and to make changes from time to time in the content hereof without obligation of the manufacturer to notify any person of such revision or changes.

FCC Statement

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Warning

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

Notice: Canadian users

This Class A digital apparatus complies with Canadian CAN ICES-3 (B)/NMB-003 (B).

Remarque à l’intention des utilisateurs canadiens.

Cet appareil numerique de la classe A est conforme a la norme NMB-003 du Canada.

Declaration of Conformity for EU Countries

- EMC Directive 2014/30/EU (Including amendments)
- Low Voltage Directive 2014/35/EU

WEEE

Disposal instructions

Do not throw this electronic device into the trash when discarding. To minimize pollution and ensure utmost protection of the global environment, please recycle it.

Eye Care

Calculating Breaks

It is recommended to take a 10-minute break every hour of continuous screen use.

Note: *Remember to blink your eyes often to keep them healthy and avoid dryness.*

Looking at Distant Objects

During breaks, look at distant objects or close your eyes.This helps to relax your ciliary (focusing) muscle and avoids eye strain.

How to Exercise Your Eyes?

1. Hold your pointer finger a few inches away from your eye.
2. Focus on your finger.
3. Slowly move your finger away from your face, holding your focus.
4. Look away for a moment, into the distance.
5. Focus on your outstretched finger and slowly bring it back toward your eye.

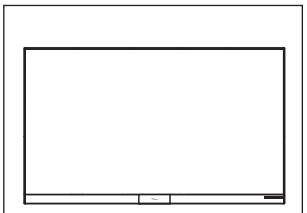
INTRODUCTION

Package Contents

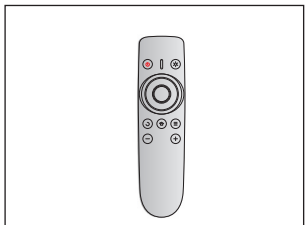
Carefully unpack and verify that you have the items listed below under standard accessories. Some of the items under optional accessories may not be available depending on the model, specification and your region of purchase. Please check with your place of purchase. Some accessories may vary from region to region.

The warranty card is only supplied in some specific regions. Please consult your dealer for detailed information.

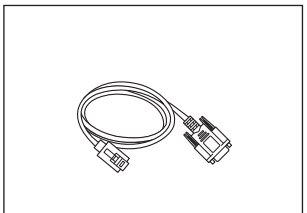
Standard Accessories



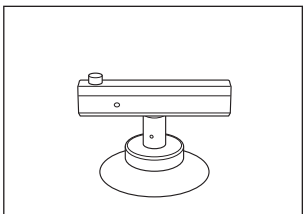
All-in-One LED Display



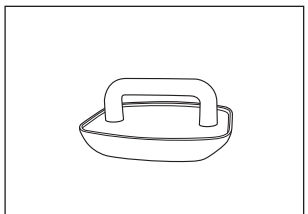
Remote Control



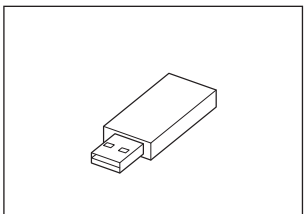
RJ45 to RS232 Cable



Front Tile Puller



Front Cover Maintenance Tool



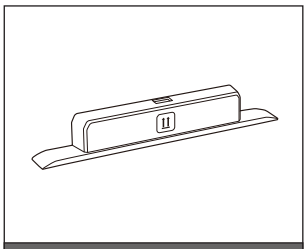
USB Flash Disk

Note:

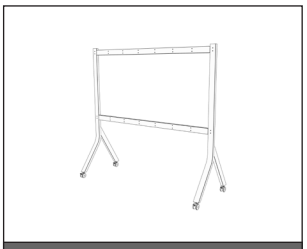
- *For warranty information, please visit www.optoma.com.*
- *Please note the contents may vary by country and model.*
- *For detailed information about the accessories, please contact the regional office.*

INTRODUCTION

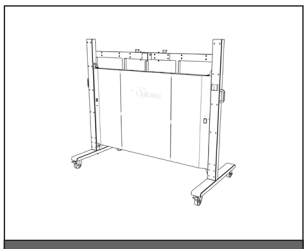
Optional Accessories



Wi-Fi Dongle
(Regional optional)



Floor Stand



Motorized Stand

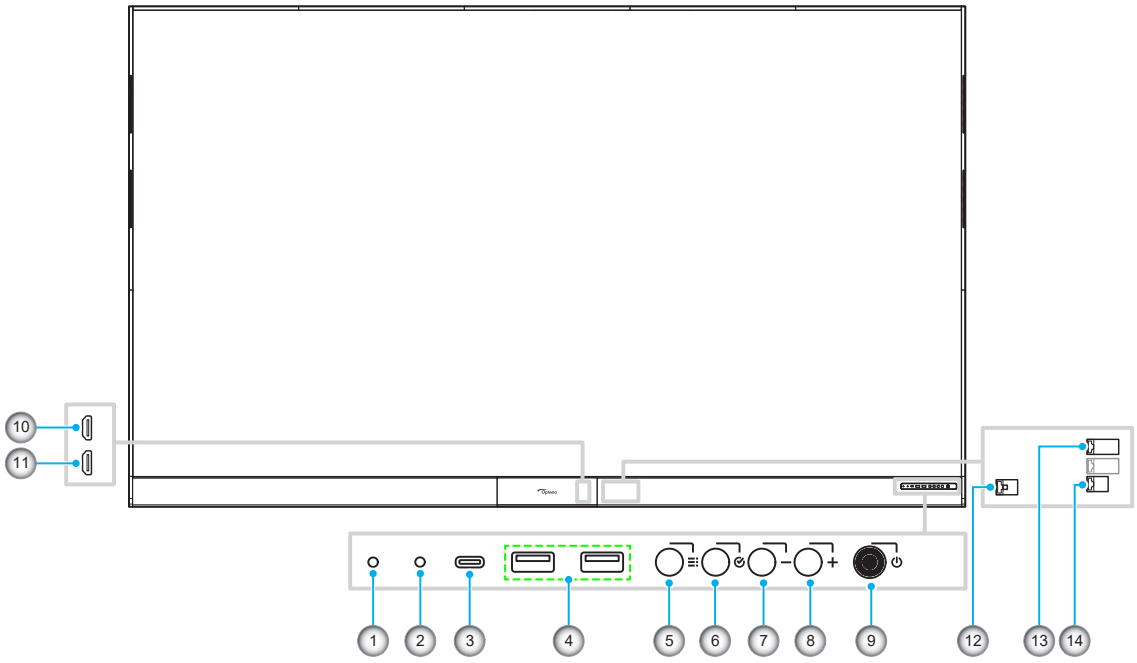
Note:

- *If you are using a stand, please make sure the following:*
  - Place the stand on a flat surface.
  - LED display is heavy after being mounted on the stand. If you need to relocate the LED display, engage the caster brakes to unlock them, and slowly move the stand to your desired location. Finally, secure the stand in its new location by locking the caster brakes.

INTRODUCTION

Product Overview

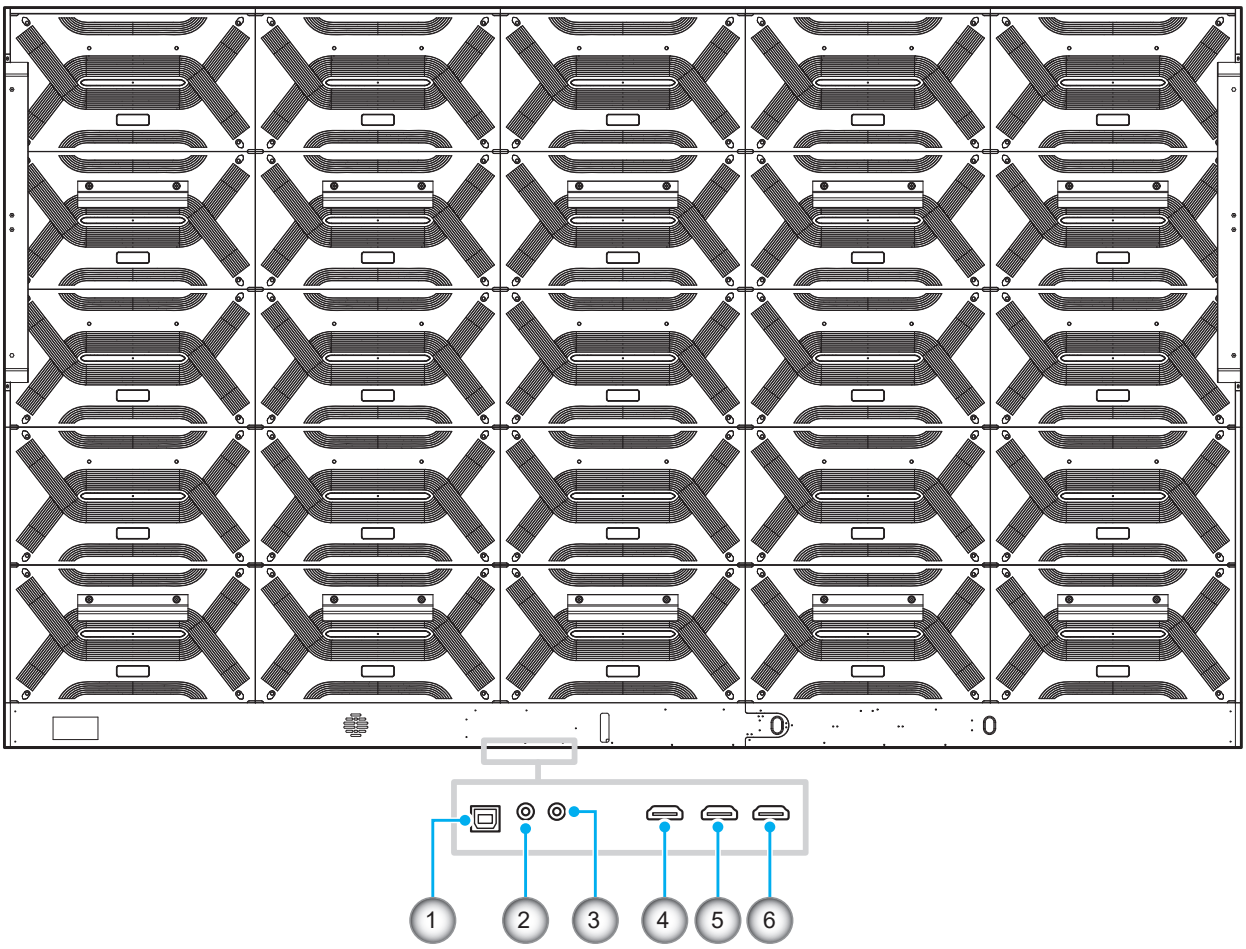
Front View



No.	Item	Description
1.	Light sensor	Detects the amount of light in the environment and automatically adjusts the screen brightness.
2.	IR receiver	Detects infrared signals from the remote control.
3.	USB type-C port	USB type-C (5V / 1A).
4.	USB type-A ports (x2)	USB3.0 type-A (5V / 1A).
5.	OSD menu key	Opens the OSD menu on the screen.
6.	Brightness key	• If OSD menu is closed, press the “+” and “-” keys to adjust brightness. • If OSD menu is opened, press to confirm settings.
7.	Volume down key or Left / down / minus key	• If OSD menu is closed, press to volume down. • In the brightness adjustment mode, press to decrease brightness. • If OSD menu is opened, press to use as left / down / minus key.
8.	Volume up key or Right / up / add key	• If OSD menu is closed, press to volume up. • In the brightness adjustment mode, press to increase brightness. • If OSD menu is opened, press to use as right / up / add key.
9.	Power key	Powers on / off the LED display or puts the display into standby mode.
10.	HDMI 1 port	HDMI input 2.0.
11.	HDMI 2 port	HDMI input 1.4.
12.	RS232 port	RS232 input, requires RJ45 to RS232 converter.
13.	RJ45 port	Connects to the Internet.
14.	RJ45 port	LED control via PC. For example, Optoma LCT2.

INTRODUCTION

Rear View



No.	Item	Description
1.	USB type-B port	USB type-B output.
2.	Audio port	3.5mm audio input.
3.	Audio port	3.5mm audio output.
4.	HDMI loop-out port	HDMI output
5.	HDMI 4 port	HDMI input 1.4.
6.	HDMI 3 port	HDMI input 1.4.

INTRODUCTION

Rear View (Continued)

Note: *Power cable is attached to the LED display in the factory. For more detailed information, refer to the table below.*

135" Model:

At 100V AC input				At 220V AC input			
Parameter	**Unit**	**Rating nom.**	**Max.**	**Parameter**	**Unit**	**Rating nom.**	**Max.**
Input current	A	6.00	15.00	Input current	A	2.73	6.82
Input frequency	Hz	50~60	65	Input frequency	Hz	50~60	65
Power	W	600	1500	Power	W	600	1500

163" Model:

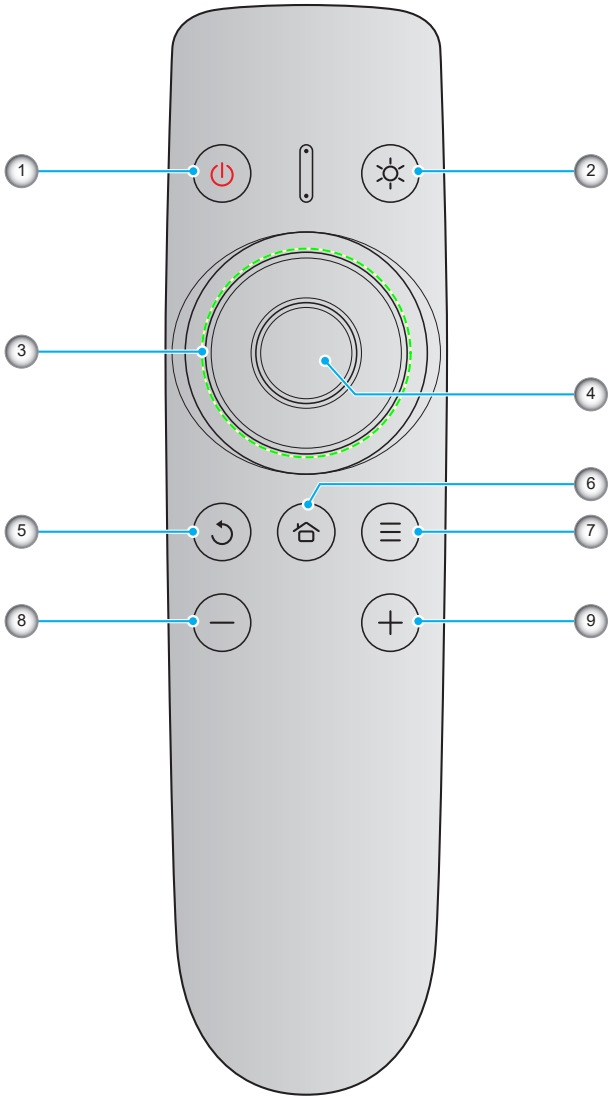
At 100V AC input				At 220V AC input			
Parameter	**Unit**	**Rating nom.**	**Max.**	**Parameter**	**Unit**	**Rating nom.**	**Max.**
Input current	A	6.00	15.00	Input current	A	3.82	9.54
Input frequency	Hz	50~60	65	Input frequency	Hz	50~60	65
Power	W	600	1500(*)	Power	W	600	2100

Important!

- *Each section of the screen should be protected by a Circuit Breaker to protect against high fault currents, and a Residual Current Device (RCD) to detect earth leakage currents.*
- *(*) For 163" model in an environment with a voltage range of 100 to 120V, please select the correct power voltage range at initial setting. Full power consumption and brightness will be reduced to 70% based on the specification.*

USING THE LED DISPLAY

Remote Control



No.	Button	Icon	Description
1.	Power		Turns the LED display on/off.
2.	Brightness		Adjusts brightness.
3.	Up / Left / Right / Down		Direction buttons up, left, right, down.
4.	Enter		Confirms the selection in the On Screen Display (OSD) menu.
5.	Back		Returns to the last page / step.
6.	Home		Returns to the Home screen.
7.	Menu		Displays or hide the OSD menu.
8.	Volume-		Decreases volume.
9.	Volume+		Increases volume.

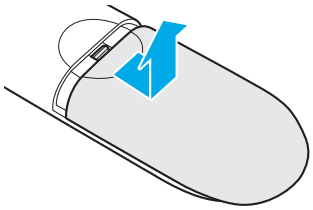
USING THE LED DISPLAY

Using the Remote Control

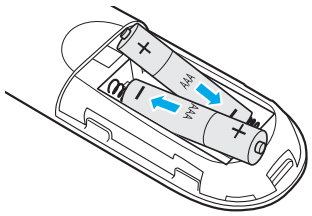
Installing/Replacing the Remote Control Batteries

Note: *Remote control uses two (2x) AAA size batteries. Batteries are not included in the package.*
IMPORTANT! *Replace only with the same or equivalent type batteries.*

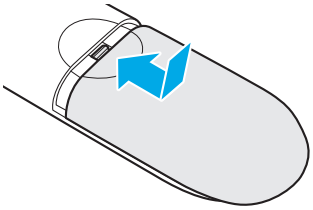
1. Remove the cover of the battery compartment.



2. Insert the two batteries with correct polarity (+/-) as shown inside the battery compartment.



3. Replace the cover.



CAUTION

Improper use of batteries can result in chemical leakage or explosion. Be sure to follow the instructions below.

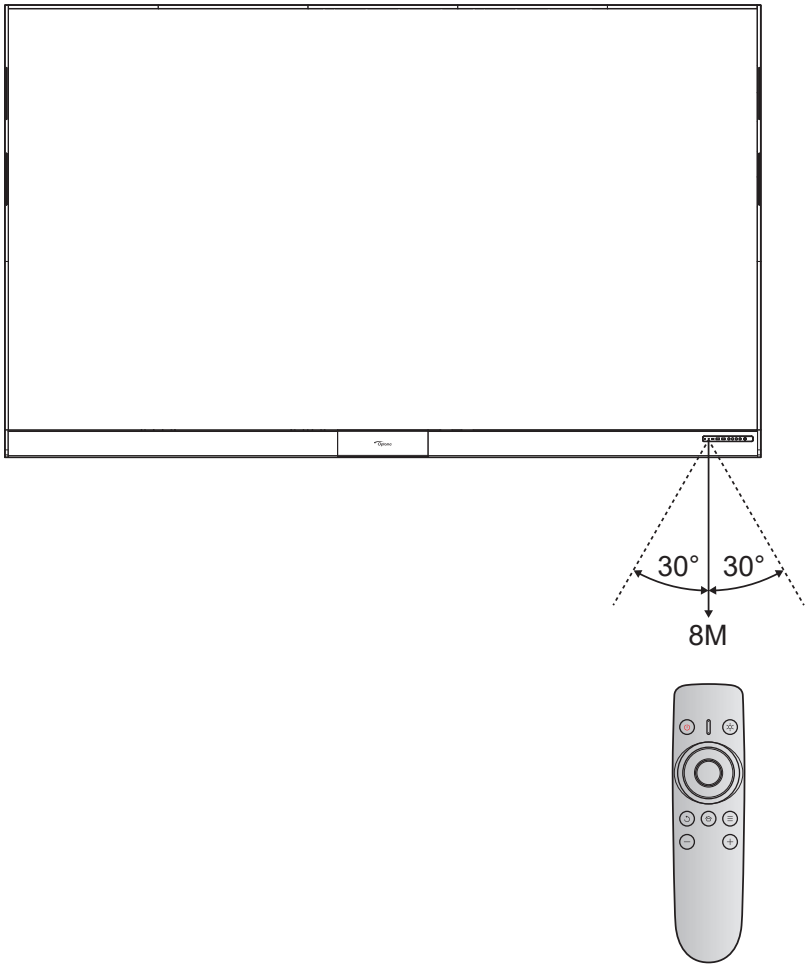
- Do not mix batteries of different types. Different types of batteries have different characteristics.
- Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries or cause chemical leakage in old batteries.
- Remove batteries as soon as they are depleted. Chemicals that leak from batteries that come in contact with skin can cause a rash. If you find any chemical leakage, wipe thoroughly with a cloth.
- The batteries supplied with this product may have a shorter life expectancy due to storage conditions.
- If you will not be using the remote control for an extended period of time, remove the batteries.
- When you dispose of the batteries, you must obey the law in the relative area or country.

USING THE LED DISPLAY

Remote Control Operating Range

When using the remote control, make sure to point it within ±30° to the IR receiver on the LED display. The distance between the remote control and the IR sensor window should not be longer than 8 meters (~ 25 feet).

- Make sure that there are no obstacles between the remote control and the IR sensor window on the LED display that might obstruct the infra-red beam.
- Make sure the IR transmitter of the remote control is not being used where direct sunlight or light from fluorescent lamps can interfere with the infra-red beam.
- If the remote control is close to Inverter-Type fluorescent lamps, it might cause intermittent service issues.
- If the remote control and the LED display are too close together, the remote control may not function or experience intermittent issues.



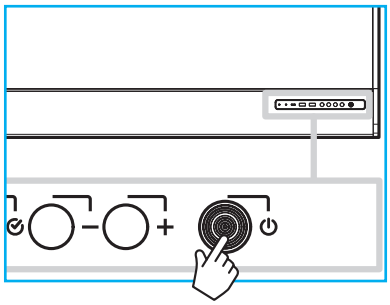
USING THE LED DISPLAY

Turning the Power On/Off

Powering On

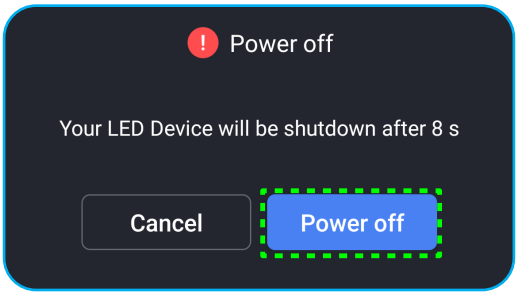
Press the **Power** button to turn on the LED display. The LED indicator light turns blue, indicating the display is ready to use.

Note: *You can also press the ⏻ button on the remote control to turn on the LED display.*



Powering Off

Press the **Power** button for 5 seconds to turn off the LED display. Press ***Power off*** at the prompt to turn it off immediately or wait for 10 seconds until the LED display turns off automatically.



When the LED indicator light turns red, this indicates that the LED display has entered standby mode.

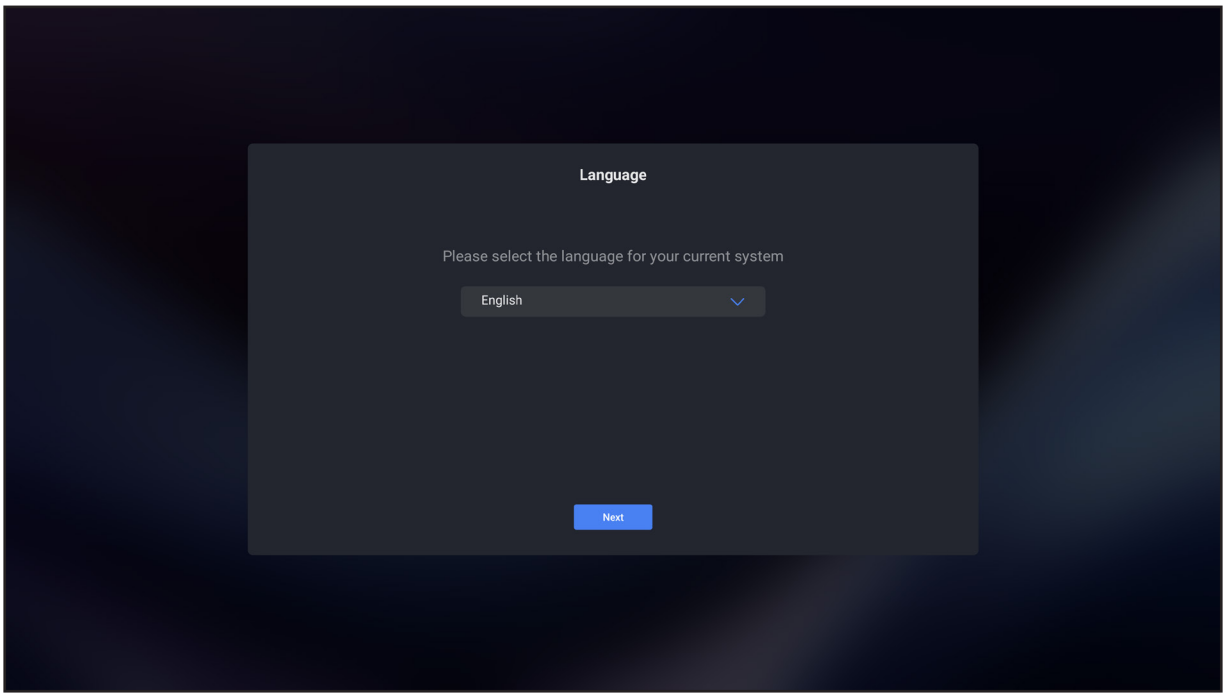
Note:

- *You can also press the ⏻ button on the remote control to turn off the LED display.*
- *The LED display still consumes power when it is in standby mode. It is highly recommended to unplug the power cord from the power outlet if the LED display will not be used for an extended period of time.*

USING THE LED DISPLAY

Setup Wizard

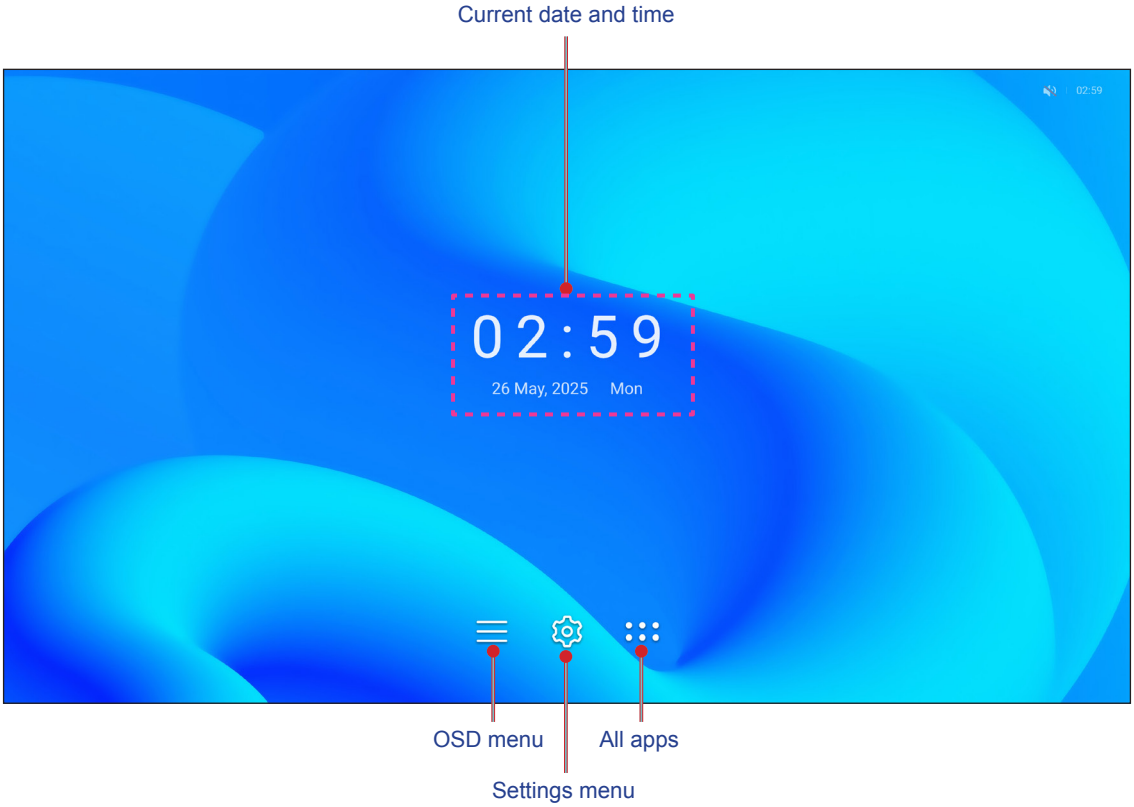
The Setup Wizard will appear on the screen when you turn on your LED display for the first time. You are prompted to configure some basic settings, such as language, Wi-Fi, security, and more. Follow the onscreen instructions to complete the initial setup.



BASIC OPERATIONS

Home Screen Overview

Home screen is displayed every time you start the LED display.



To navigate the Home screen, press the left and right button to select an option and press the ***Enter*** button to confirm.

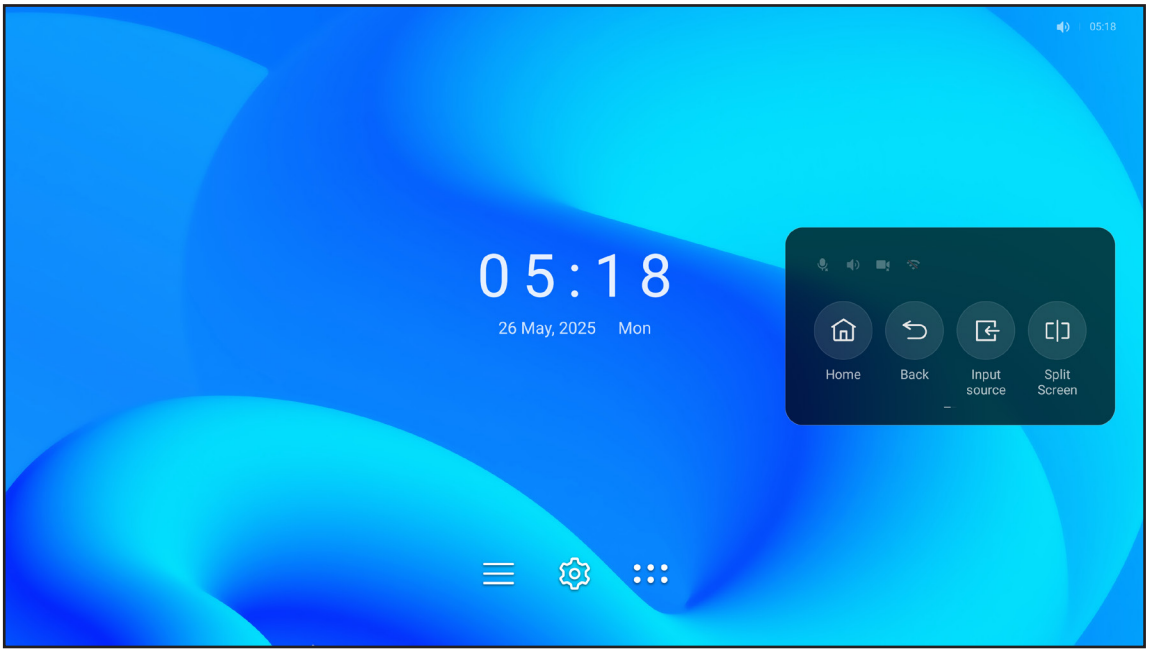
Note:

- *Unless otherwise specified, this section describes panel operations using the remote control.*
- *You can also use the control panel or mouse to operate the panel.*

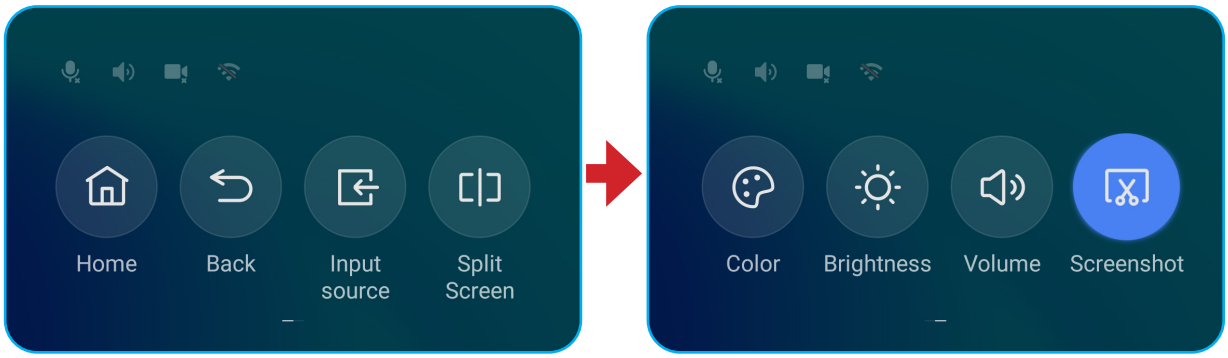
BASIC OPERATIONS

OSD Menu

To open the OSD menu, press ☰ button on the remote control or select ☰ on the Home screen.



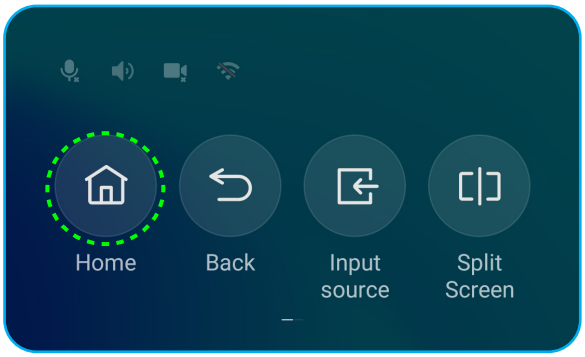
Page 1 ***Page 2***



Operation/Action	Using the Remote Control	Using the Control Panel
Open / close the OSD menu	Press the ☰ button	Press the ☰ key
Select an item / adjust setting	Press the direction buttons	Press the — and + keys
Enter the submenu / confirm the selection	Press the ***Enter*** button	Press the ✓ key
Move to the previous item	Press the ↩ button	Press the — or **MENU** key

Home

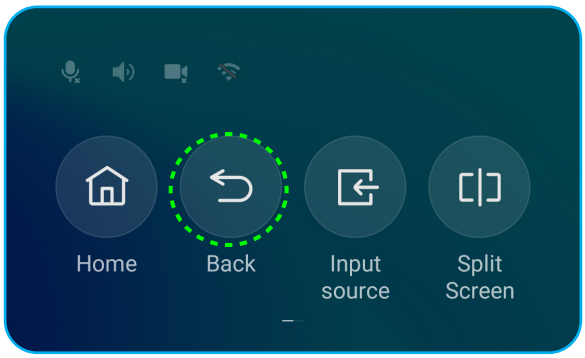
Select ***Home*** to return to the Home screen.



BASIC OPERATIONS

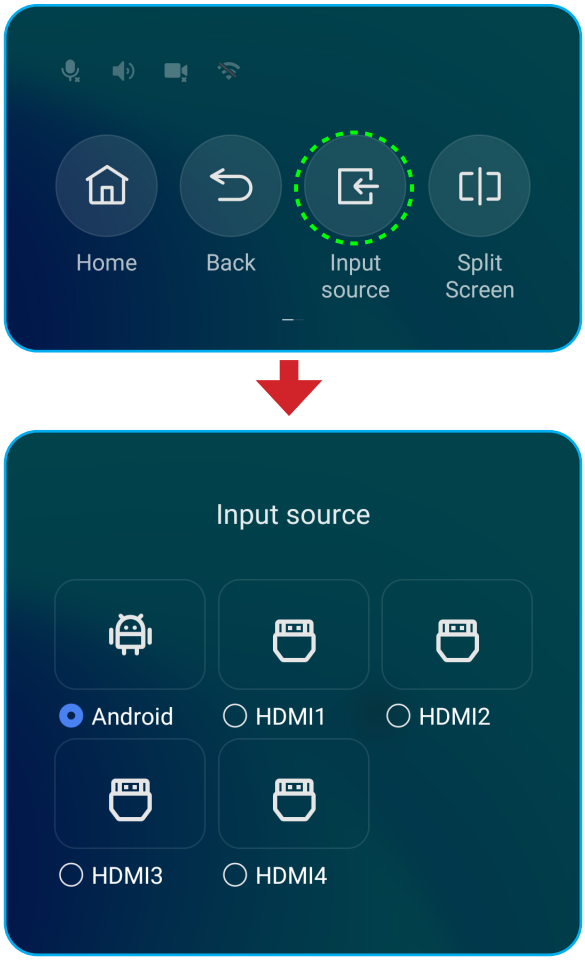
Back

Select ***Back*** to return to the previous app.



Input Source

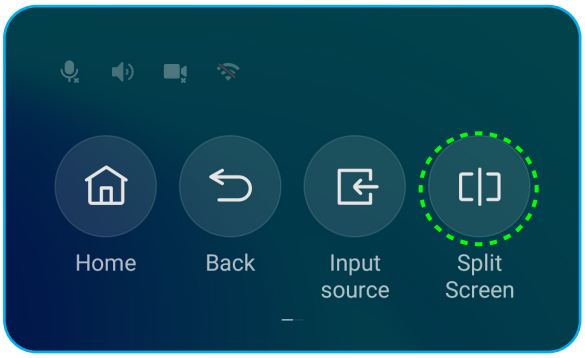
Select ***Input source*** and then select another source. The available options are: ***Android, HDMI 1, HDMI 2, HDMI 3, and HDMI 4***.



BASIC OPERATIONS

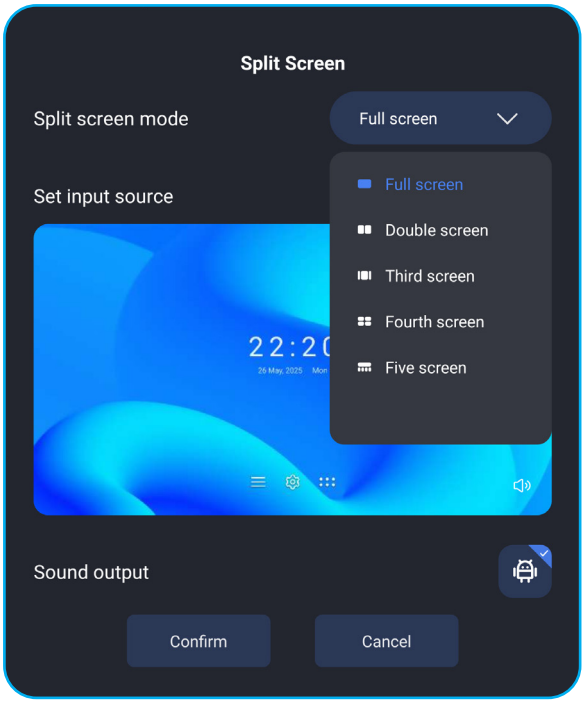
Split Screen

Select ***Split Screen*** to view multiple windows from different sources simultaneously on the screen.



Do the following to set up split screen:

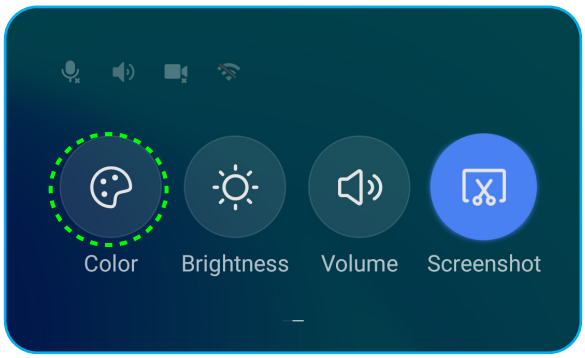
- ***Split screen mode***: Select how you want to split the screen. The available options are: ***Full screen***, ***Double screen***, ***Third screen***, ***Fourth screen***, or ***Five screen***.



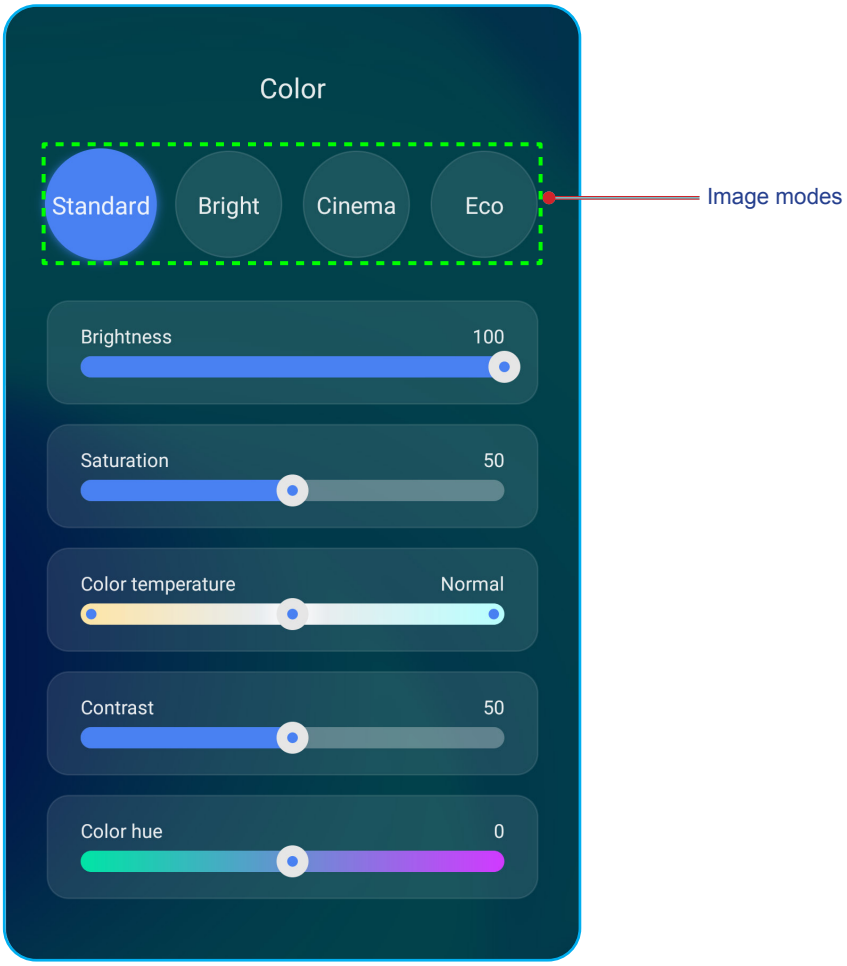
BASIC OPERATIONS

Color

Select ***Color*** to adjust color settings for different image modes. These image modes are applicable to all input sources.



- Select the image mode. The available options are: ***Standard***, ***Bright***, ***Cinema***, and ***Eco***.
  Then adjust ***Brightness***, ***Saturation***, ***Color temperature***, ***Contrast***, and ***Color hue*** for each mode.



BASIC OPERATIONS

Brightness

Select ***Brightness*** to adjust the screen brightness.

Note: *You can also adjust brightness by pressing the button on the remote control and then using the up and down buttons to increase or decrease the screen brightness.*

BASIC OPERATIONS

Volume

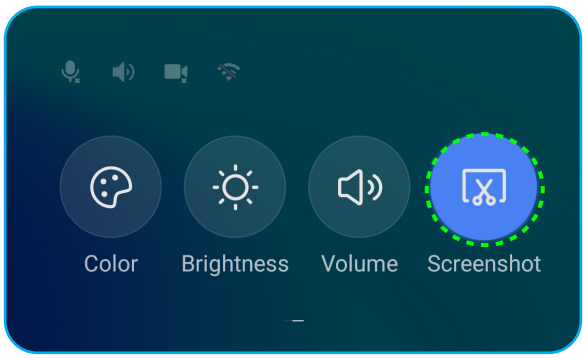
Select ***Volume*** to adjust volume.

Note: *You can increase or decrease volume directly by pressing the + or — button respectively on the remote control.*

Screenshot

Select ***Screenshot*** to capture the screen image. Screen images can be captured only in Android mode.

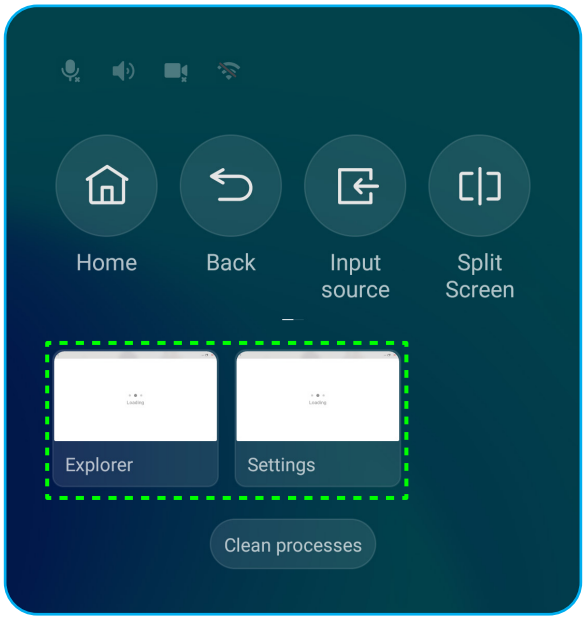
Note: *By default, screen images are saved to* ***Explorer*** **> *Screenshots*** *folder.*



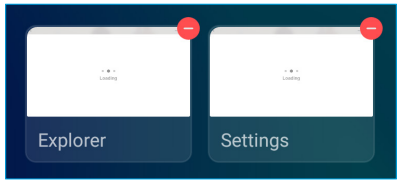
BASIC OPERATIONS

Task Manager

All opened apps are visible in the task manager. Select the app to open it on the screen.



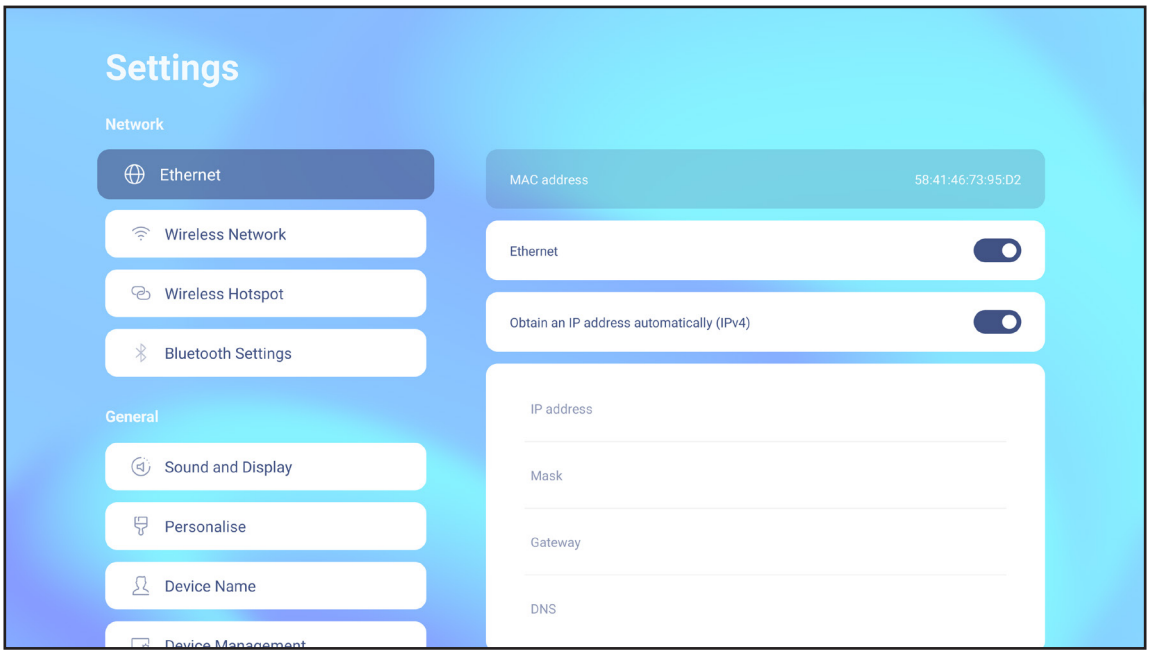
To close apps, select ***Clean processes***. Then select ⊖ on top of each app that you want to close.



BASIC OPERATIONS

Settings Menu

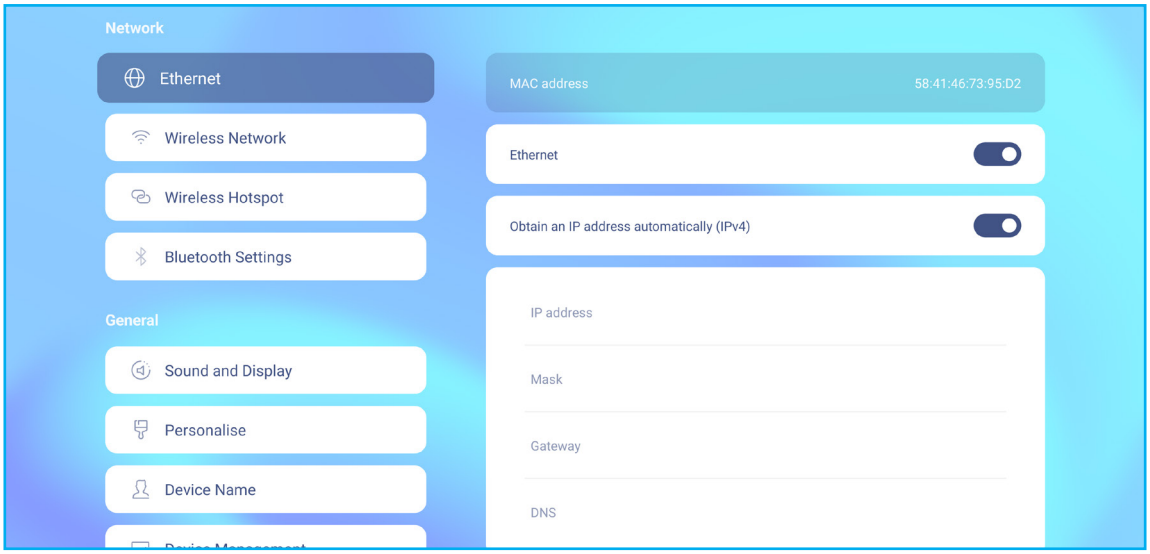
To open the Settings menu, select on the Home screen.



Operation/Action	Using the Remote Control
Select an item / adjust setting	Press the direction buttons
Enter the submenu / confirm the selection	Press the ***Enter*** button
Move to the previous item or close the Settings menu	Press the ↺ button

Configuring Network Settings

In ***Network*** menu, configure ***Ethernet***, ***Wireless Network***, ***Wireless Hotspot***, and ***Bluetooth Settings***.



- Select ***Ethernet*** and view or configure network settings:
  - View ***MAC address*** of the LED display.
  - Enable ***Ethernet*** to configure network settings. To obtain network settings automatically, enable ***Obtain an IP address automatically (IPv4)***. To configure network settings manually, disable ***Obtain an IP address automatically (IPv4)*** and enter ***IP address***, ***Mask***, ***Gateway***, and ***DNS*** manually.

BASIC OPERATIONS

Configuring Network Settings (Continued)

- Select ***Wireless Network*** and enable ***Wireless network*** option. Connect to your preferred Wi-Fi: If the selected Wi-Fi is secured, you are prompted to enter an access password.
- Select ***Wireless Hotspot*** and configure hotspot settings as listed below. When the configuration is complete, select ***Confirm*** to save the settings or ***Cancel*** to discard the settings.

  - Enable ***Hotspot switch***.

  - Enable or disable ***Hotspot Shield Mode***. If enabled, this feature will prohibit devices connected to the hotspot from accessing the network connected to the LED display.

  - View ***SSID (Service Set Identifier)***.

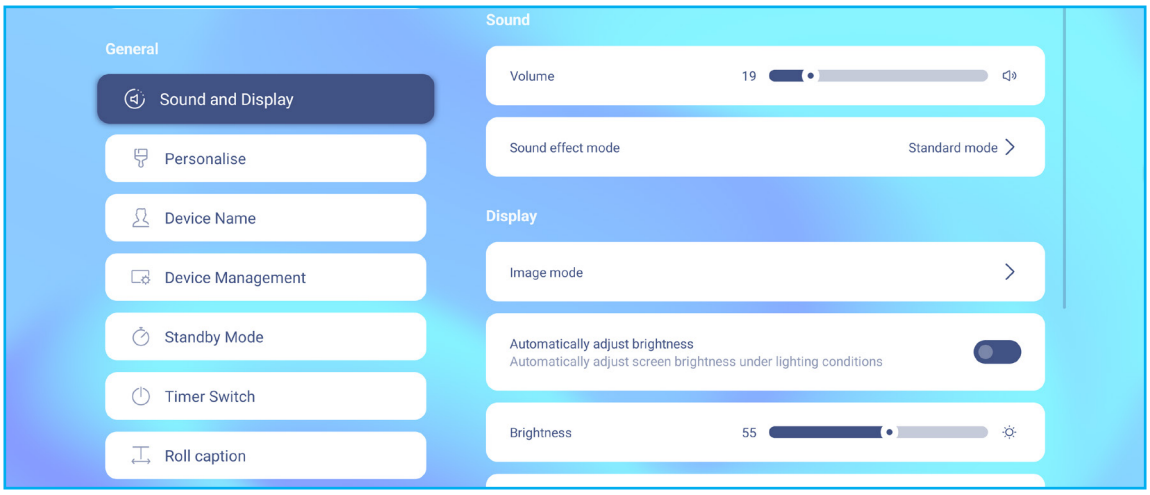
  - Select ***Hide SSID*** to enable or disable displaying SSID.

  - Enter SSID password to the ***SSID password*** field.
- Select ***Bluetooth Settings*** and configure Bluetooth settings:

  - Enable ***Bluetooth settings*** if you want to use a Bluetooth remote control. Then select ***Pair bluetooth remote control*** and follow the onscreen instructions to complete the pairing process.

Configuring General Settings

In ***General*** menu, configure ***Sound and Display***, ***Personalise***, ***Device Name***, ***Device Management***, ***Standby Mode***, ***Timer Switch***, and ***Roll caption***.



- Select ***Sound and Display*** and configure the following settings:

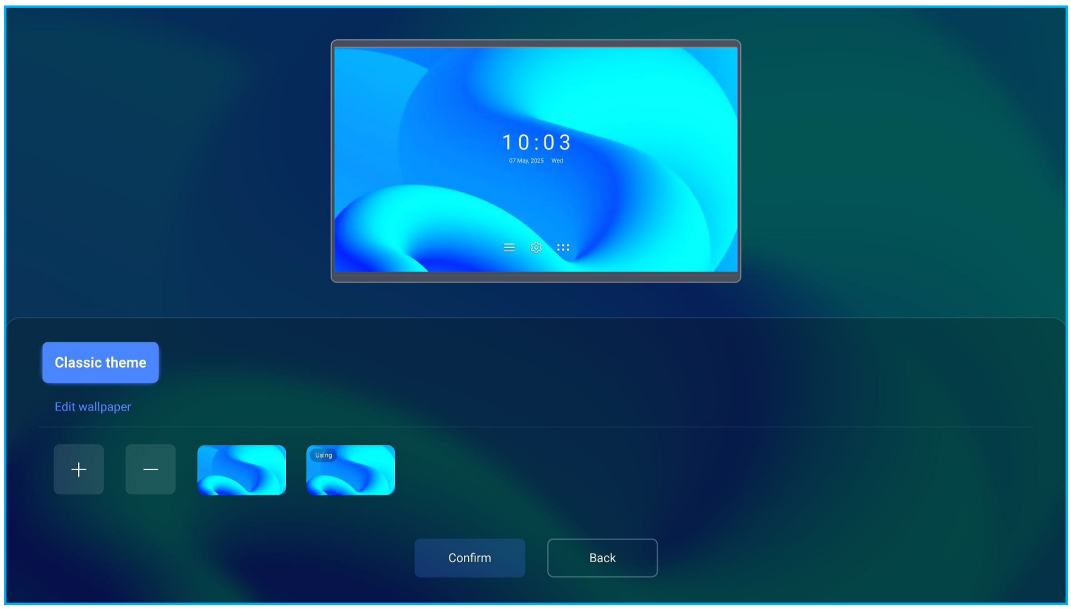
  - In the ***Sound*** section, adjust ***Volume*** and select the ***Sound effect mode***. The available options are: ***Standard mode***, ***Cinema mode***, and ***Meeting mode***. Select ***Confirm*** to save the mode setting.

  - In the ***Display*** section, select the ***Image mode***. The available options are: ***Standard***, ***Bright***, ***Cinema***, and ***Eco***. Select ***Confirm*** to save the mode setting.
    Enable or disable ***Automatically adjust brightness*** option. By default, this feature is disabled. If you eanble it, then LED brightness will be adjusted based on the ambient light condition.

BASIC OPERATIONS

Configuring General Settings (Continued)

- Select ***Personalise*** and configure the following settings:
  - Select ***Home page*** and choose Home screen theme and wallpaper. Select ***Confirm*** to save the settings.



  - Select ***Boot animation*** and customize boot animation and logo. The supported formats for ***Boot logo*** are PNG, BMP, and JPG. The supported format for ***Boot animation*** is MP4. Select ***Confirm*** to save the settings, ***Reset*** to use the default settings, or ***Cancel*** to discard the settings.
  - Select ***Switch homepage*** to customize the default Home screen that is displayed after bootup. Select ***Confirm*** to save the setting.
- Select ***Device name*** and enter a new device name (if necessary). Select ***Confirm*** to save the setting.
- Select ***Device Management*** and configure the following settings:
  - Select ***Home page*** and choose Home screen theme and wallpaper. Select ***Confirm*** to save the settings.
  - Enable or disable ***Microphone*** option.
  - Select ***Microphone equipment***. The available options is ***Automatically choose***.
  - Select ***Speaker***. The available options are: ***Automatically choose*** and ***Built-in speaker***. Select ***Confirm*** to save the setting.
  - Select ***Detect Speakers*** to detect automatically available speakers.
  - Enable or disable ***USB shield***. Replug or unplug the USB device to make this feature take effect.
  - Enable or disable ***Remote wake-up service***.
  - Select ***Automatic maintenance*** and set the dehumidification level. Configure this feature if the LED display is used in a high humidity environment. When powering off the display for a prolonged period, the system will calculate the number of days when the display has not been in use and based on that period set the maintenance time. The available options are: ***Off***, ***Low***, ***Middle***, *and* ***High***. Select ***Confirm*** to save the setting.
  - Enable or disable ***Auto Source***. If enabled, select the ***Source priority*** in the situation when the current channel loses signal. The available options are: ***System Default***, ***Android***, *and* ***HDMI 1~HDMI 4***. Select ***Confirm*** to save the setting.
  - Select ***Last shutdown input*** and then select the signal source that is displayed at startup. The available options are: ***Default last shutdown channel***, ***Android***, *and* ***HDMI 1~HDMI 4***. Select ***Confirm*** to save the setting.
- Select ***Standby Mode*** and configure the following settings:
  - Select ***Power Mode (Standby)*** and then choose your preferred power mode when the LED display is in standby mode. The available options are: ***Eco.*** *and* ***Active***. Select ***Confirm*** to save the setting.

    Note: ***OMS*** *power on fucntion is supported only if the* ***Power Mode (Standby)*** *is set to* ***Active****.*

BASIC OPERATIONS

Configuring General Settings (Continued)

Note:

- ***Active*** *standby mode consumes more power because the system only turns off the backlight but the mainboard is still working to listen for power on command from LAN and* ***OMS****. If you don't have remote power on requirement, we suggest using* ***Eco.*** *standby mode to save power.*
- *It is also highly recommended that you switch back to* ***Eco.*** *mode and turn off the LED display for a period of time. It will help the LED display to release memory and CPU loading.*

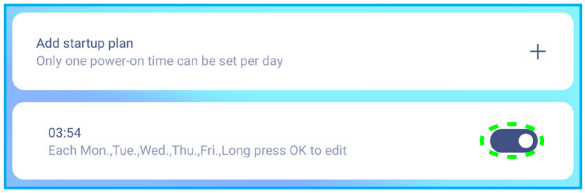
- Enable or disable ***Hibernate***.
- Enable or disable ***Screensaver***.

- Select ***Timer Switch*** and ***Add startup plan*** and/or ***Add shutdown plan***:
  - First, select ***Add startup plan*** *or* ***Add shutdown plan***. Next, select +.

Add startup plan

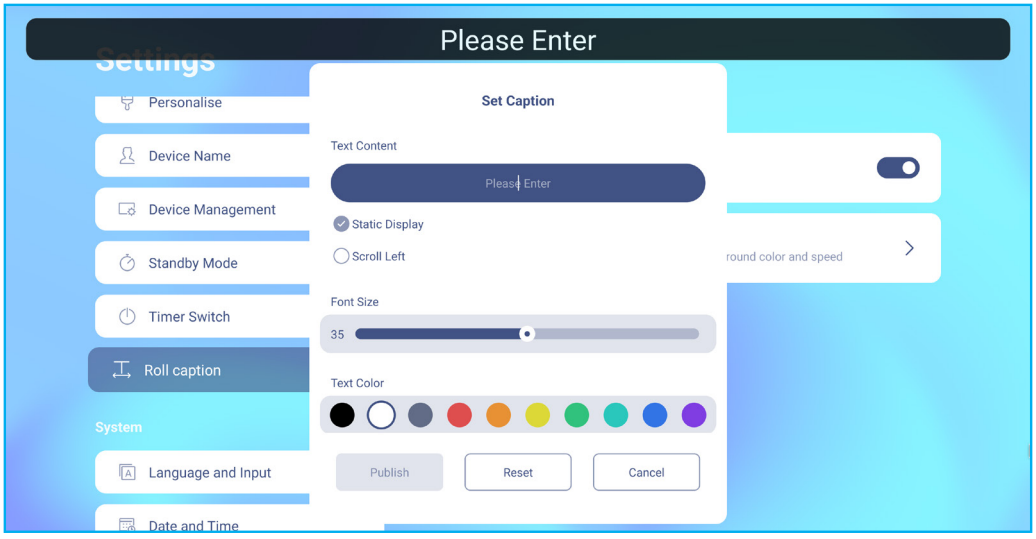
Add shutdown plan

Select ***Confirm*** to save the setting. Finally, enable the schedule in the ***Timer Switch*** menu.



Note: *To modify or delete the plan, long press the* ***Enter*** *button on the schedule plan and then do the modifications and select* ***Confirm*** *or select* ***Delete*** *to delete the plan.*

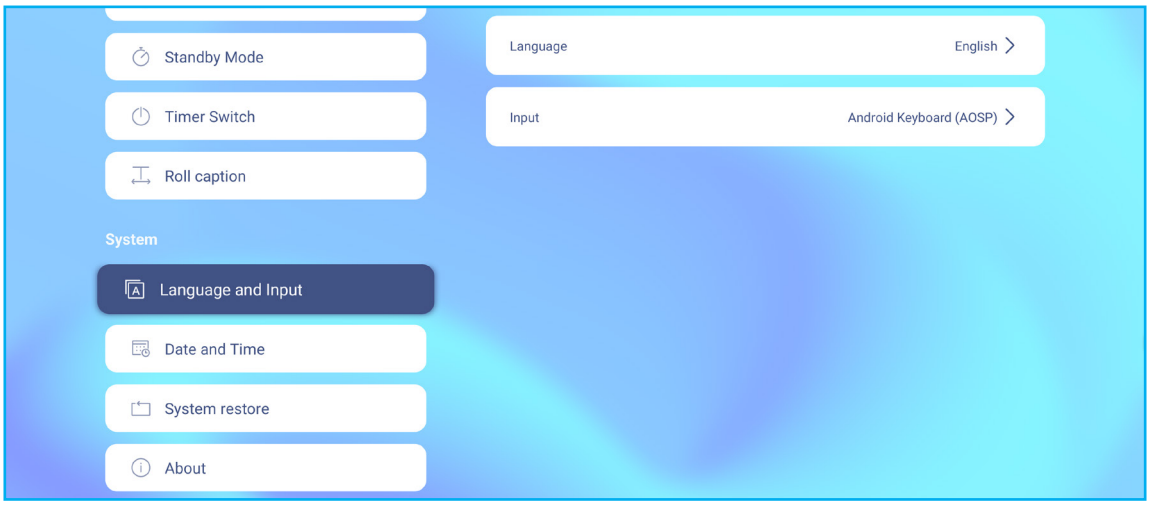
- Enable or disable ***Roll caption***. If enabled, select ***Set caption*** and enter text that you want to publish to the ***Text Content*** field, select text motion (***Static Display*** or ***Scroll Left***), ***Font Size***, and ***Text Color***. To publish text, select ***Publish***, to reset, select ***Reset***, and to discard modifications, select ***Cancel***.



BASIC OPERATIONS

Configuring System Settings

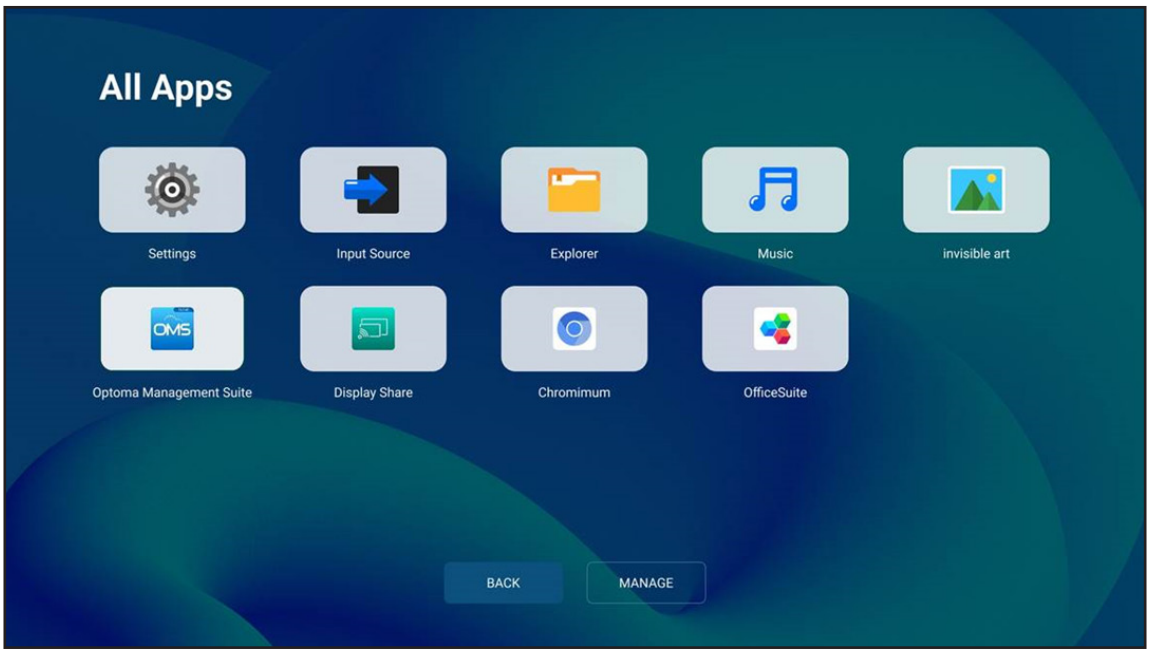
In ***System*** menu, configure ***Language and input***, ***Date and Time***, ***System restore***, and read ***About*** information.



- Select ***Language and Input*** and configure the following settings:
  - Select ***Language*** and choose in what language menus are displayed.
  - Select ***Input*** and choose the keyboard. The available options are: ***Android Keyboard (AOSP)*** *and* ***Google Pinyin Keyboard****.* Select ***Confirm*** to save the setting.
- Select ***Date and Time*** and configure the following settings:
  - Enable or disable ***24-hour clock***.
  - Enable or disable ***Automatically synchronize time***.
  - If ***Automatically synchronize time*** is disabled, select ***Set date*** and set the date setting. Select ***Confirm*** to save the setting.
  - Select ***Set date format*** and choose the format. Select ***Confirm*** to save the setting.
  - If ***Automatically synchronize time*** is disabled, select ***Set time*** and set the time setting. Select ***Confirm*** to save the setting.
  - Select ***Select time zone*** and choose the time zone. Select ***Confirm*** to save the setting.
- ***System restore*** setting is for service only.
- Select ***About*** and view ***Regulatory model name***, ***System capacity***, and ***S/N***, read ***Legal information***, export system log (***Export log***), and view ***Software version information***.

USING THE APPS

To open the All Apps screen, select on the Home screen.

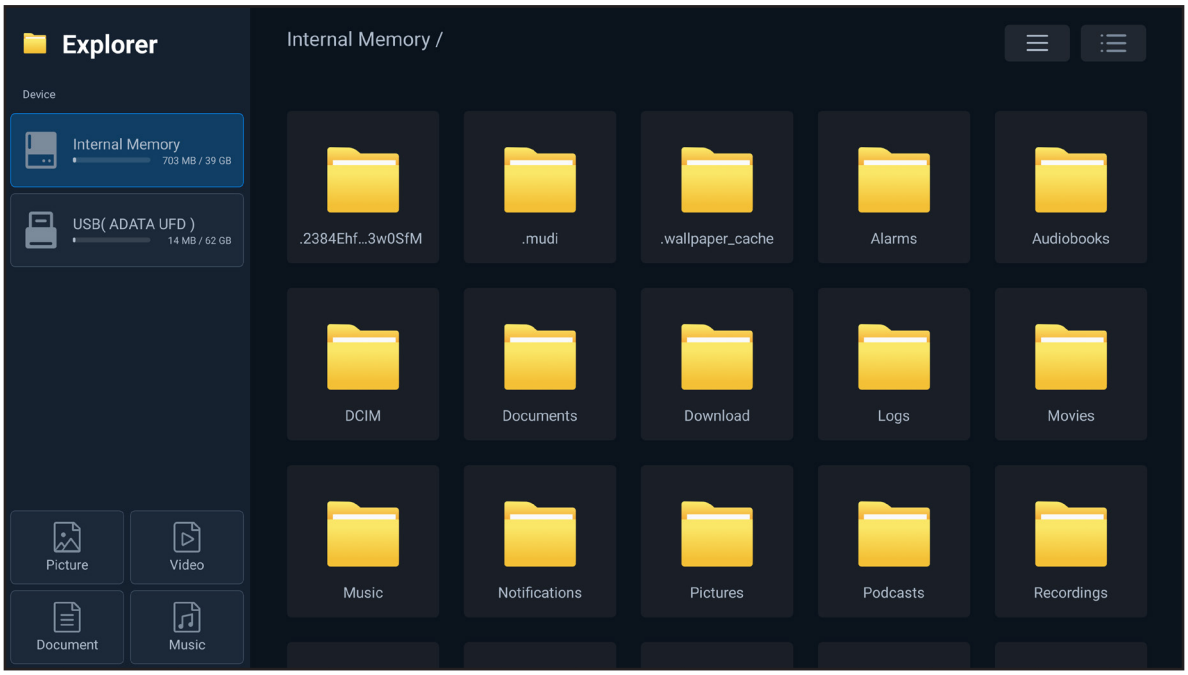


Note: *Pre-installed apps may vary depending on the software version.*

Explorer

To open ***Explorer***, select ***Home screen >*** **> *Explorer***.

Managing Files



USING THE APPS

Explorer (Continued)

Select a storage location and browse for a file or folder you want to view. Then select the file or folder to open. The table below will help you navigate ***Explorer*** and its included features.

Item		Description
	Picture	Display only image files in the selected storage location.
	Videos	Display only video files in the selected storage location.
	Document	Display only document files in the selected storage location.
	Music	Display only audio files in the selected storage location.
	Thumbnail view	View files and folders as thumbnails.
	List view	View files and folders as a list.
	Modification mode	Select and then choose files and folders. When selected, choose any of the following: • **Cancel**: Exit the modification mode and return to the default menu. • **Multi**: Select individual items. • **Select all**: Select all items. • **Copy**: Copy item(s). • **Cut**: Cut item(s). • **Paste**: Select a storage and paste item(s). • **Delete**: Delete item(s). • **Sort by name**: Sort items by name. • **Sort by time**: Sort items by time. • **Sort by size**: Sort items by size.

USING THE APPS

Playing Multimedia Files

Multimedia formats supported

Movie

File	Codec		
Extension	Video	Audio	Maximum transmit ratio
.3gp/3GP2	H.263	Mpeg1/2 Layer1/2/3, AAC-LC, PCM	Max. solution: SQCIF(128x96), QCIF(176x144), CIF(352x288), 4CIF(704x576) 30fps, 38.4Mbps
	H.264		Max. solution: 7680x4320 30fps (60fps for simple stream), 80Mbps
.avi	H.264	Mpeg1/2 Layer1/2/3, AAC-LC, PCM	Max. solution: 7680x4320 30fps, 80Mbps
	Mjpeg		Max. solution: 1920x1088 30fps, 45Mbps
.dat	mpeg1/2	Mpeg1/2 Layer1/2/3	Max. solution: 1920x1088 30fps, 38.4Mbps
.flv	H.264	Mpeg1/2 Layer1/2/3, AAC-LC, PCM	Max. solution: 7680x4320 30fps (60fps for simple stream), 80Mbps
.mkv	Mpeg-4	Mpeg1/2 Layer 2, AAC, FLAC, Vorbis	Max. solution: 1920x1088 30fps, 80Mbps
	H.264		Max. solution: 7680x4320 30fps (60fps for simple stream), 80Mbps
.mov	Mpeg-4	Mpeg1/2 Layer1/2/3, AAC-LC, PCM	Max. solution: 1920x1088 30fps, 80Mbps
	H.264		Max. solution: 7680x4320 30fps (60fps for simple stream), 80Mbps
.mp4	Mpeg-4	Mpeg1/2 Layer1/2/3, AAC-LC, PCM	Max. solution: 1920x1088 30fps, 80Mbps
	H.264		Max. solution: 7680x4320 30fps (60fps for simple stream), 80Mbps
.VOB	mpeg1/2	Mpeg1/2 Layer1/2/3	Max. solution: 1920x1088 30fps, 80Mbps
.mpg.mpeg	mpeg1/2	Mpeg1/2 Layer1/2/3, AAC-LC, PCM	Max. solution: 1920x1088 30fps, 80Mbps
.webm	vp9	Mpeg1/2 Layer1/2/3, AAC-LC, PCM, opus	Max. solution: 7680x4320 60fps, 80Mbps
	vp8		Max. solution: 1920x1088 30fps, 38.4Mbps
.ts	H.265	Mpeg1/2 Layer1/2/3, AAC-LC, PCM, opus	Max. solution: 7680x4320 60fps, 100Mbps
	mpeg1/2		Max. solution: 1920x1088 30fps, 80Mbps
	H.264		Max. solution: 7680x4320 30fps (60fps for simple stream), 80Mbps

USING THE APPS

Audio

File	Format	Audio codec	Supported range
.aac	AAC, M4A	ADIF, ATDS Header AAC-LC, AAC-ELD	Sample rate: 8KHz~48KHz Bit rate: N/A
.mpeg	MP1, MP2, MP3	MPEG1/2/2.5 Audio Layer1/2/3	Sample rate: 8KHz~48KHz Bit rate: 8Kbps~320Kbps, CBR and VBR
.flac	FLAC	Compress Level 0~8	Sample rate: 8KHz~48KHz Bit rate: N/A
.ape	Monkey's Audio	/	/
.opus	OPUS	OPUS	Sample rate: 8KHz~48KHz Bit rate: 32Kbps~9612Kbps
.mp3	MPEG Audio Layer 3	MPEG1/2 Layer3	Sample rate: 8KHz~48KHz Bit rate: 8Kbps~320Kbps
.ogg	OGG, OGA, Vorbis	Q1~Q10	Sample rate: 8KHz~48KHz Bit rate: N/A
.mid	XMF, MXMF, RTTTL, RTX, OTA, IMY	Midi Type 0 and 1, DLS version 1 and 2, XMF and Mobile XMF, RTTTL/RTX, OTA, iMelody	Sample rate: N/A Bit rate: N/A
.wav	WAV	MS-ADPCM, IMA-ADPCM, PCM	Sample rate: 8KHz~48KHz Bit rate: N/A

Photo

File	Format	Supported range	Remarks
.jpeg/jpg	JPEG	48x48 pixels to 65536x65536 pixels	(1) Not support non-interleaved Scan (2) Software support SRGB JPEG (3) Software support Adobe RGB JPEG
.png	PNG	/	/
.bmp	BMP	/	/
.gif	GIF	/	/

USING THE APPS

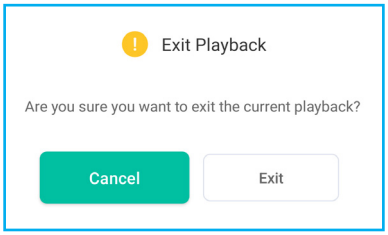
Playing videos

Select the video you want play on the screen.

During playback, press the ***Enter*** key on the control panel or on the remote control to open playback control toolbar.

Item		Description
	List	Display video thumbnails.
	Rewind	Rewind video.
	Previous video	Skip to the previous video.
/	Pause/Play toggle	Select to pause the playback. To resume, select .
	Next video	Skip to the next video.
	Fast forward	Fast forward video.
	Loop/Play once toggle	Select the loop option.
/	Volume control	Adjust the volume level.

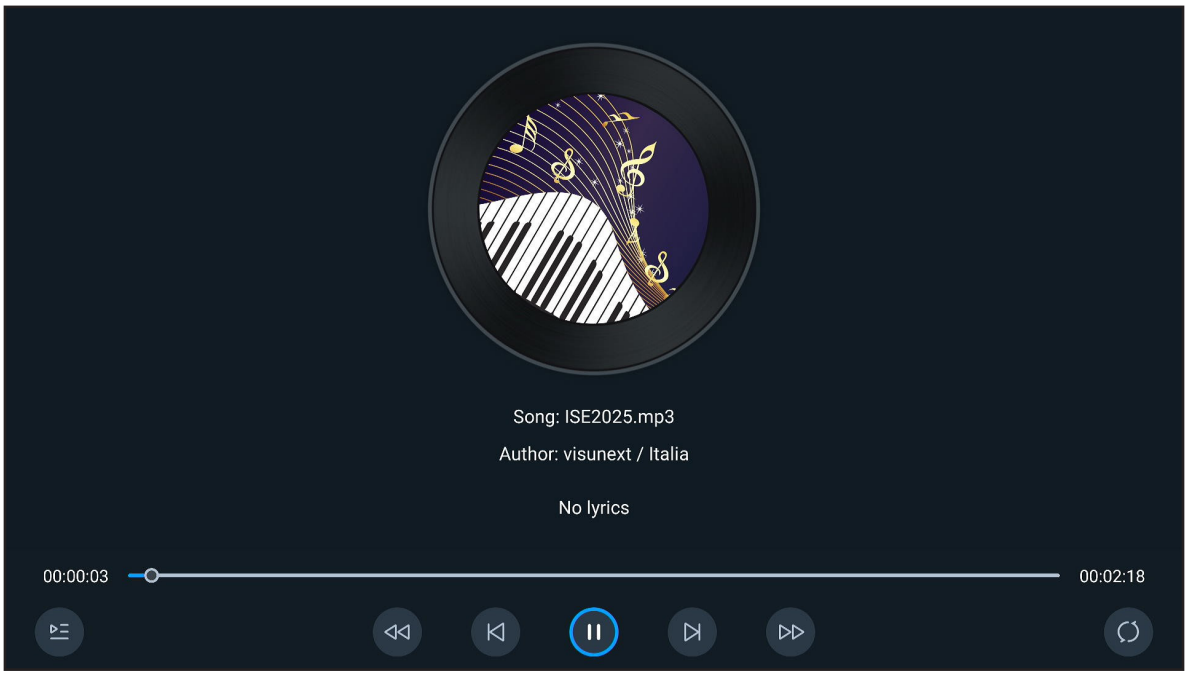
Note: *To stop playback, press button on the remote control. When the confirmation message appears, select* ***Exit****.*



USING THE APPS

Playing music

Select the audio track you want to play on the screen.



During playback, press the ***Enter*** key on the control panel or on the remote control to open playback control toolbar.

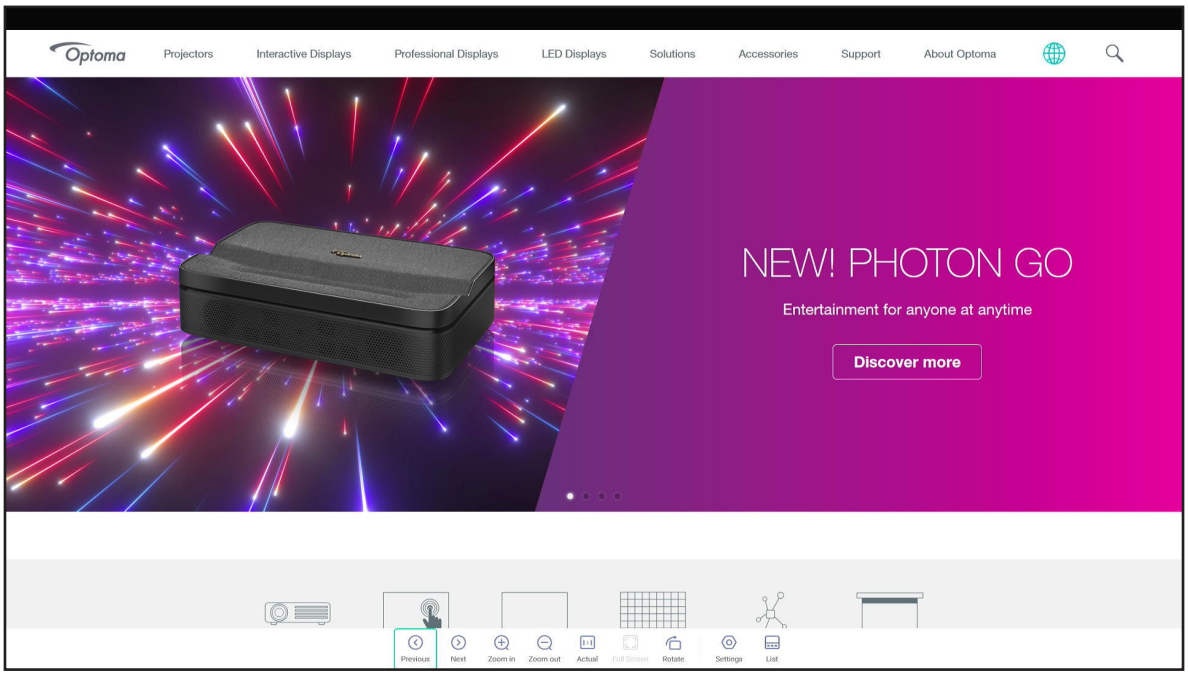
Item		Description
	Info	View track information.
	Rewind	Rewind track.
	Previous track	Skip to the previous track.
/	Pause/Play toggle	Select to pause the playback. To resume, select .
	Next track	Skip to the next track.
	Fast forward	Fast forward track.
	Loop/Play once toggle	Select the loop option.

Note: *To stop playback, press button on the remote control.*

USING THE APPS

Viewing images

Select the image you want to display on the screen.



Press the ***Enter*** key on the control panel or on the remote control to open the control toolbar.

Item		Description
	Previous	Display the previous image.
	Next	Display the next image.
/	Zoom in/Zoom out	Magnify the image or zoom out on the magnified image.
	Actual	Display the image in its actual size.
	Rotate	Rotate the image clockwise.
	Settings	Configure slideshow settings.
	List	Display image list.

Note: *To exit slideshow, press ↺ button on the remote control.*

USING THE APPS

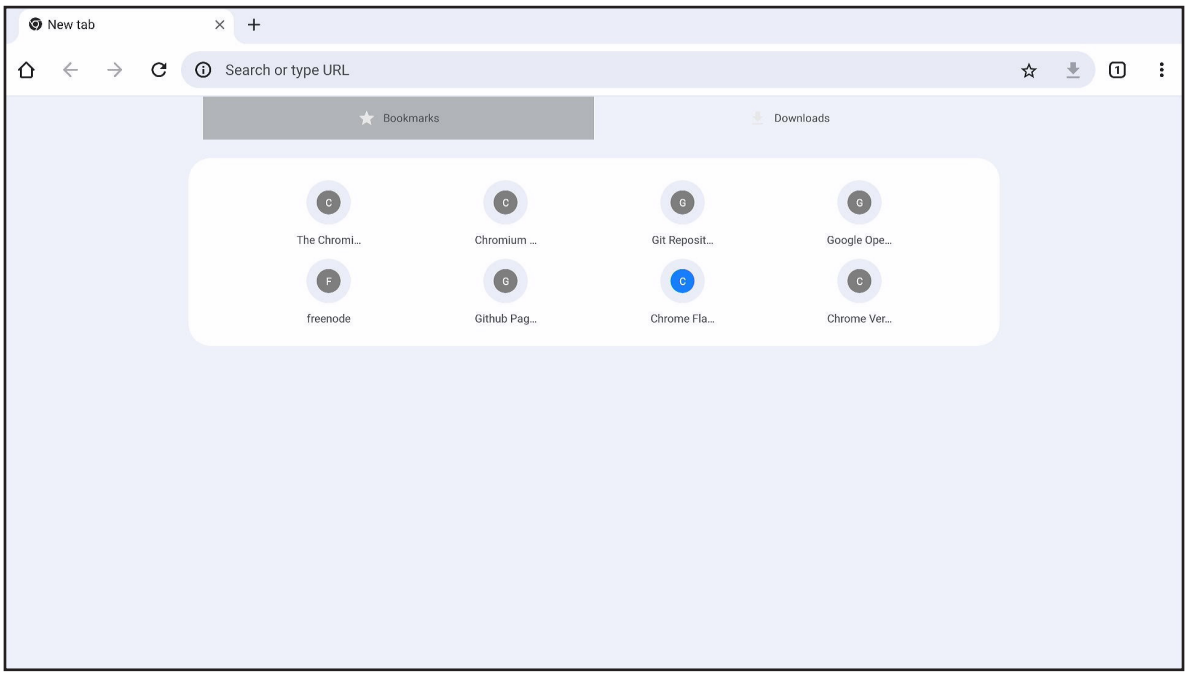
Invisible Art

Invisible Art enables you to personalize the lock screen. To open the app, select ***Home screen >*** **>** ***Invisible Art***.

Select and press ***Enter*** to upload images and videos from various sources.

Browser

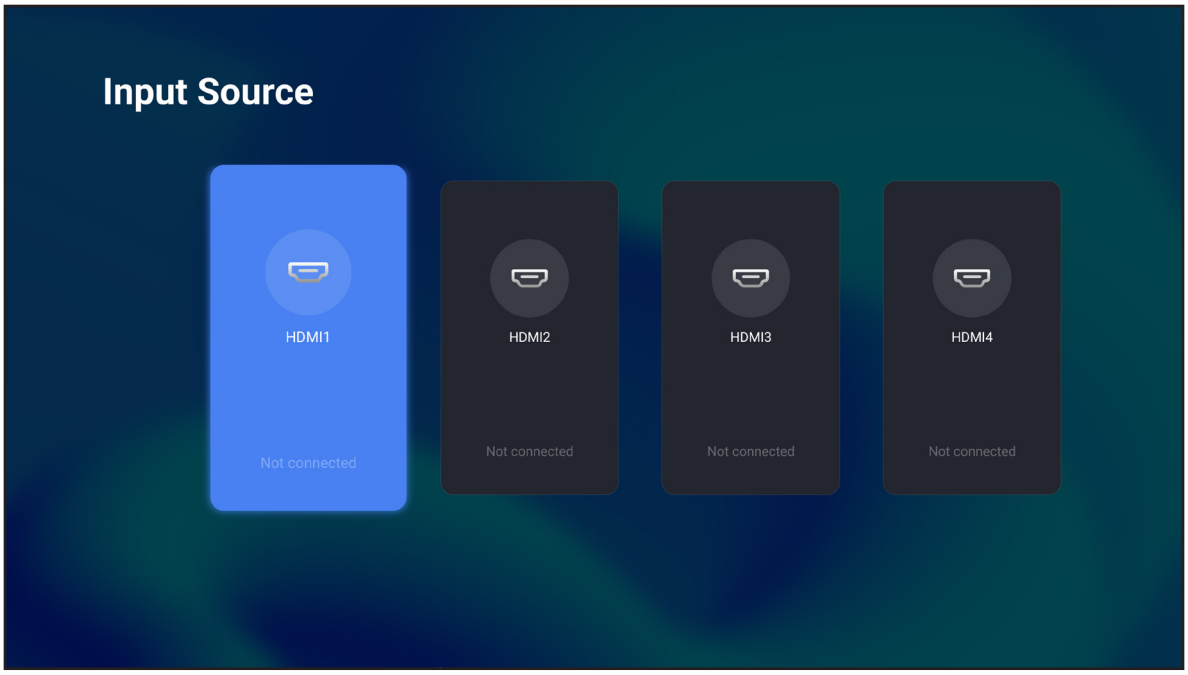
To open the web browser, select ***Home screen >*** **>** ***Chromium***.



USING THE APPS

Input Source

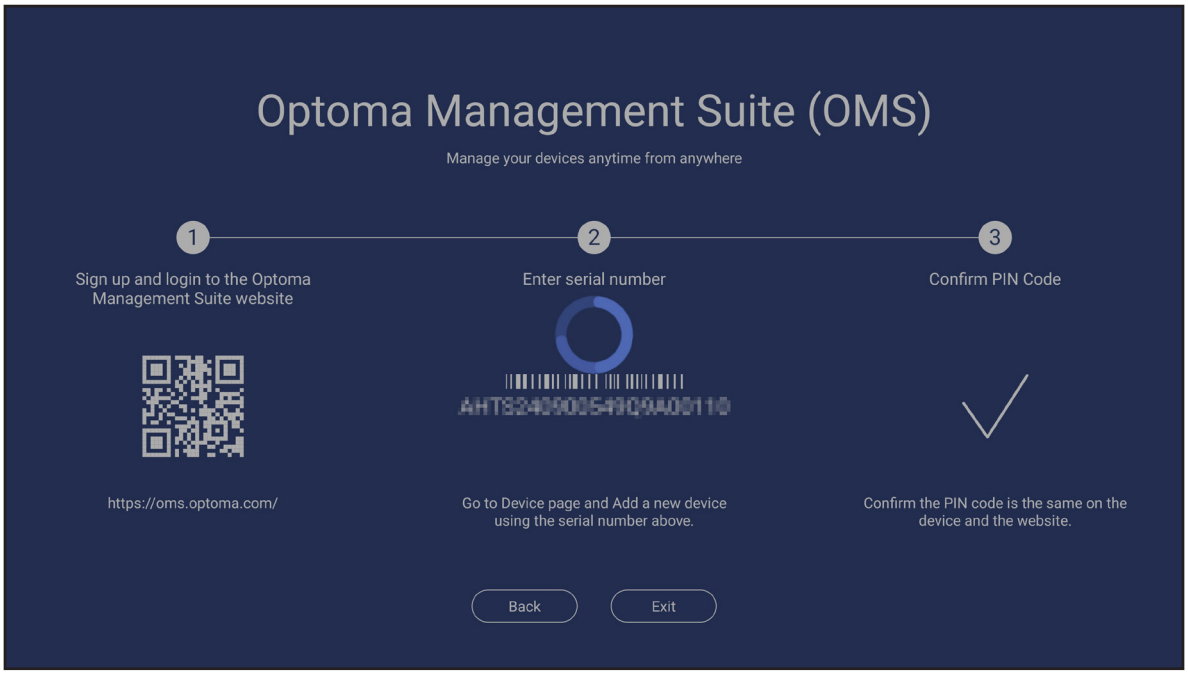
To view and access available input sources, select ***Home screen >*** **> *Input Source*** . Then, select your preferred input source.



Optoma Management Suite (OMS)™

OMS is a remote management software that operates via Internet or LAN. It simplifies the remote management of the LED display.

1. For OMS Cloud, log in to the OMS website: *https://oms.optoma.com/* or to use a local LAN version of OMS, download the OMS app for Windows from your localized Optoma regional website (start by going to *https://www.optoma.com*).
2. Select ***Home screen >*** **> *Optoma Management Suite*** .



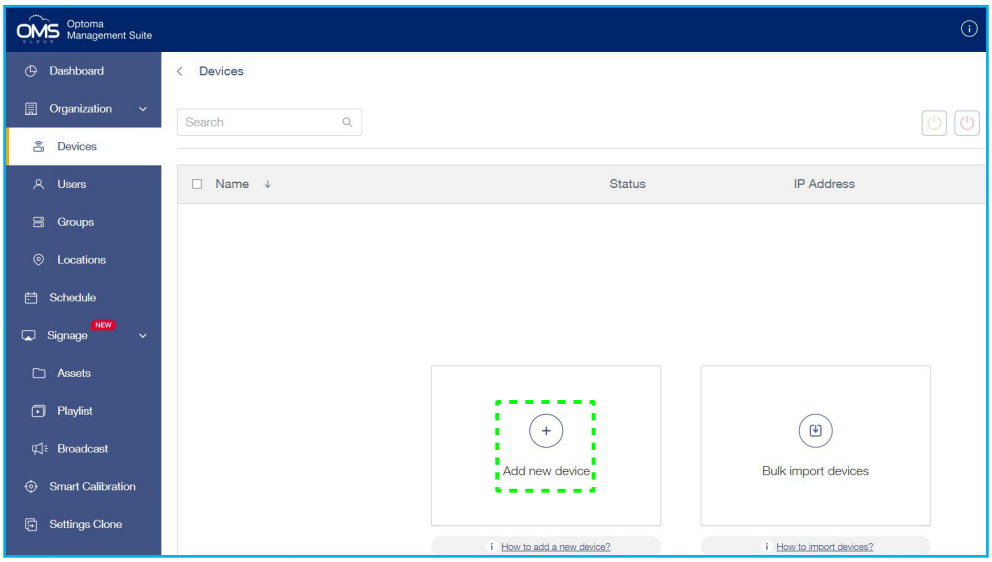
USING THE APPS

OMS (Continued)

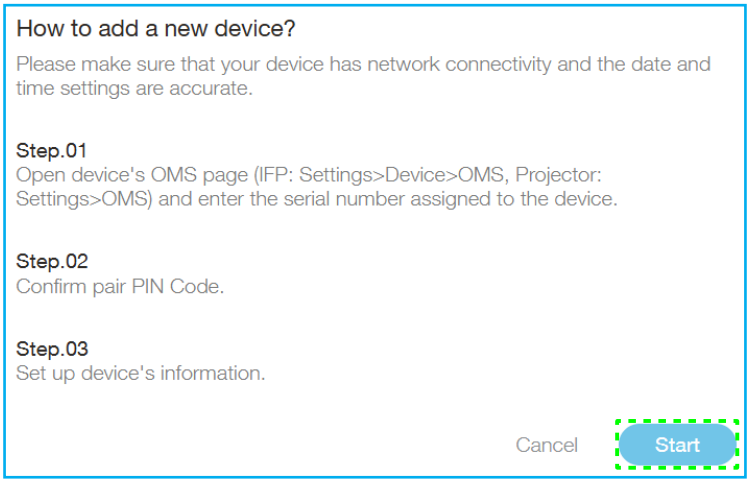
3. From OMS in your browser, click on the ***Devices*** category.

4. Click ***Add new device***.

   Note: *To add multiple devices at once, ensure that all the devices are powered on and connected to the Internet. Next, click **Bulk import devices** and download the template to your computer. Enter the information and finally upload the file to OMS. While adding the devices, pairing is completed automatically in the background.*



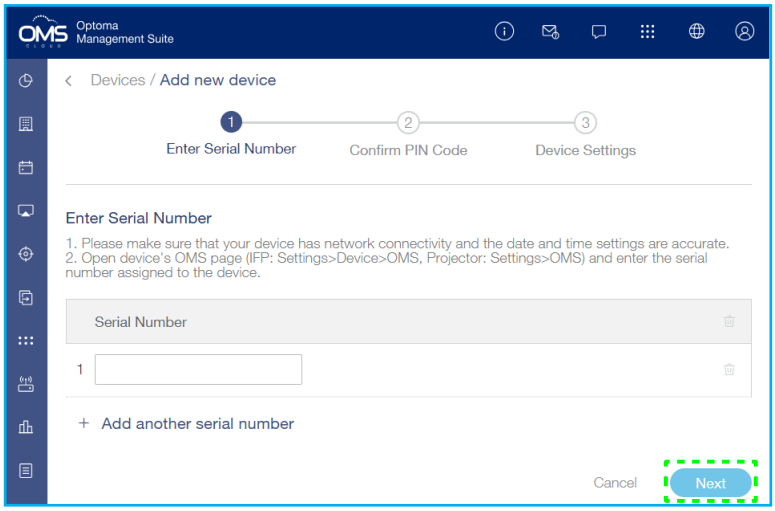
5. Click ***Start*** at the “How to add a new device?” prompt.



USING THE APPS

OMS (Continued)

6. Enter the serial number from the **Optoma Management Suite** launcher page and click ***Next***.



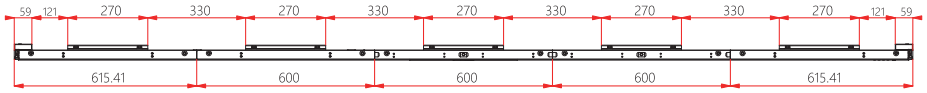
7. Confirm the pin codes on the LED display and your browser. Wait until pairing is complete, then click ***Next*** in your browser.
   Use the screen controls to manage the LED display on your browser.

Note: *For more detailed instructions, please visit the Optoma official website to download the OMS user manual.*

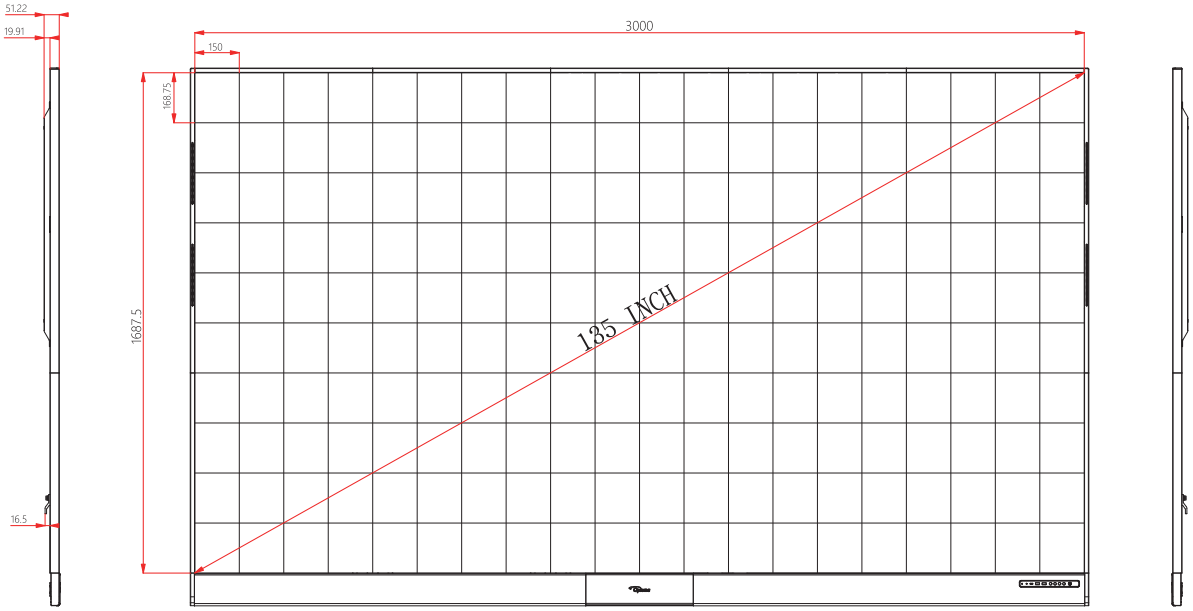
ADDITIONAL INFORMATION

Dimensions

135” Model

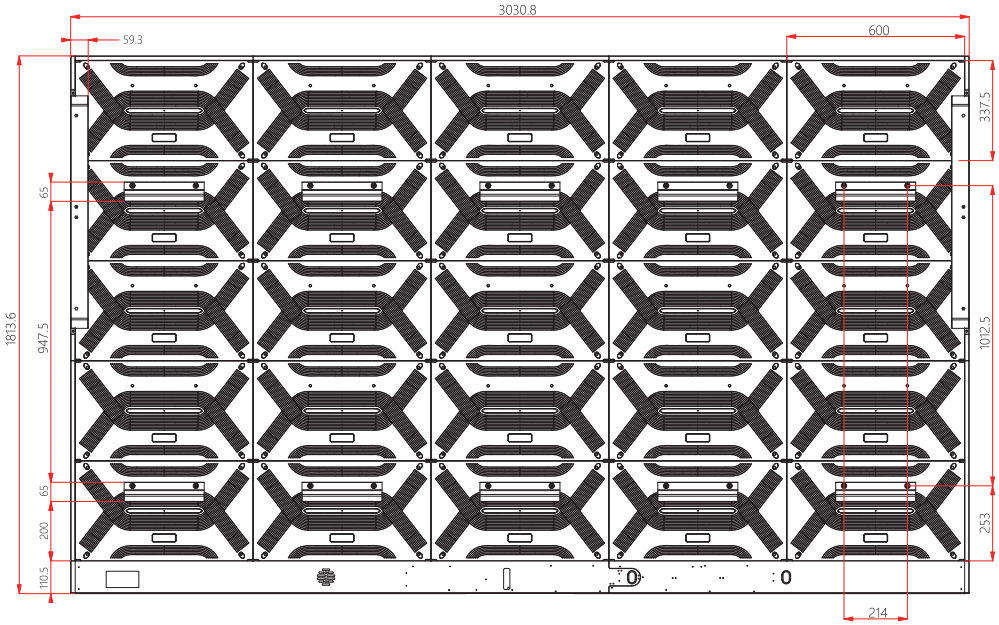


< Top View>



< Front View>

< Bottom View>

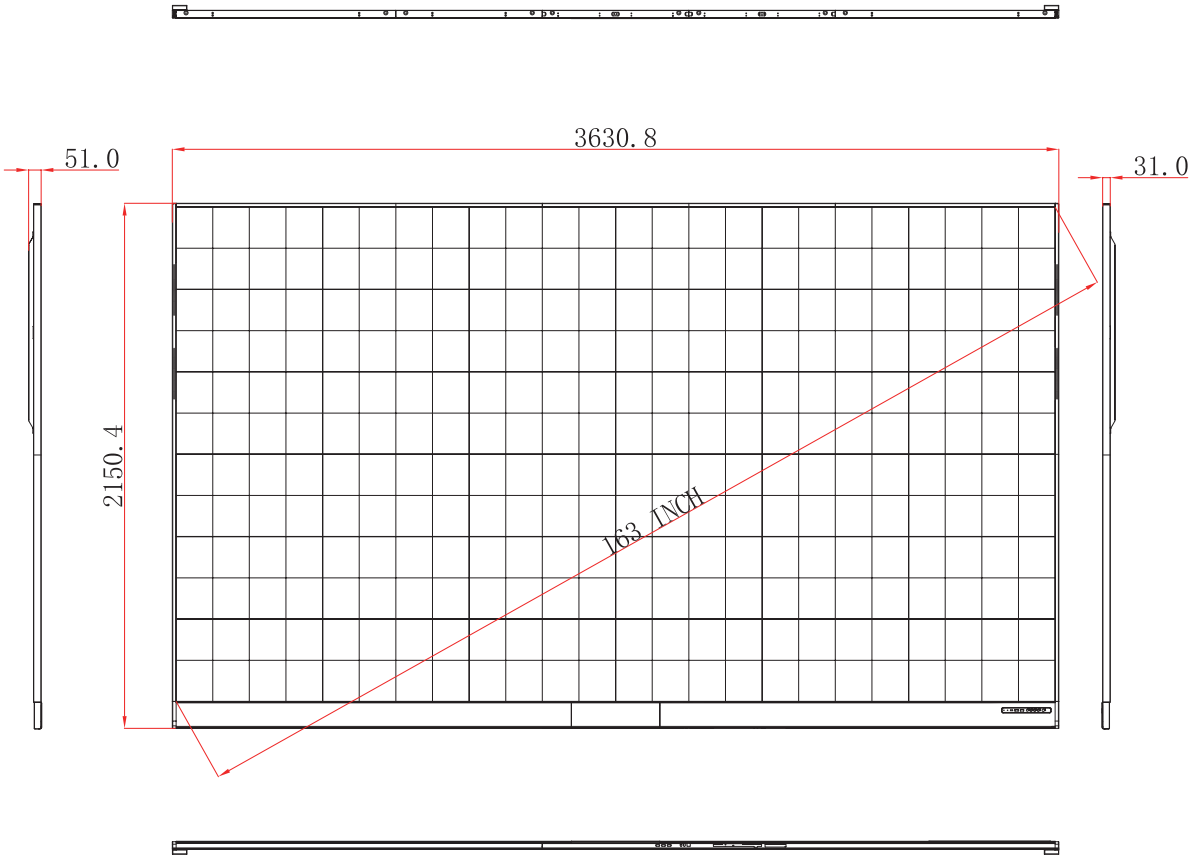


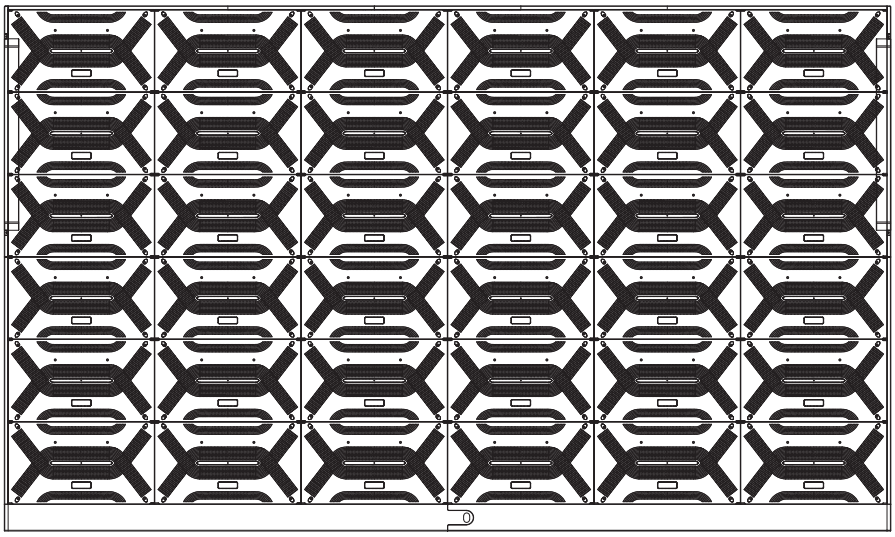
< Rear View>

Unit: mm

ADDITIONAL INFORMATION

163” Model





Note: *Screen diagonal is in inches, other units of length are in millimetres.*

ADDITIONAL INFORMATION

Supported Timing List

Format	Resolution	Frame Rate(Hz)	HMDI 1 (2.0)	HMDI 2 (1.4)	HMDI 3 (1.4)	HMDI 4 (1.4)
SVGA	VESA 800 x 600	50	V	—	—	—
		59.94	V	—	—	—
		60	V	—	—	—
XGA	VESA 1024 x 768	50	V	—	—	—
		59.94	V	—	—	—
		60	V	—	—	—
720p	1280 x 720	30	V	—	—	—
		50	V	—	—	—
		59.94	V	—	—	—
		60	V	—	—	—
WXGA	VESA 1280 x 800	50	V	—	—	—
		59.94	V	—	—	—
		60	V	—	—	—
SXGA	VESA 1280 x 1024	50	V	—	—	—
		59.94	V	—	—	—
		60	V	—	—	—
FWXGA	VESA 1366 x 768	50	V	—	—	—
		59.94	V	—	—	—
		60	V	—	—	—
SXGA+	VESA 1400 x 1050	50	V	—	—	—
		59.94	V	—	—	—
		60	V	—	—	—
WXGA+	VESA 1440 x 900	50	V	—	—	—
		59.94	V	—	—	—
		60	V	—	—	—
UXGA	VESA 1600 x 1200	50	V	—	—	—
		59.94	V	—	—	—
		60	V	—	—	—
1080i	1920 x 1080	50	V	—	—	—
		59.94	V	—	—	—
		60	V	—	—	—
1080p		25	V	V	V	V
		30	V	V	V	V
		50	V	—	V	—
		59.94	V	—	V	—
		60	V	—	V	—

ADDITIONAL INFORMATION

Supported Timing List (Continued)

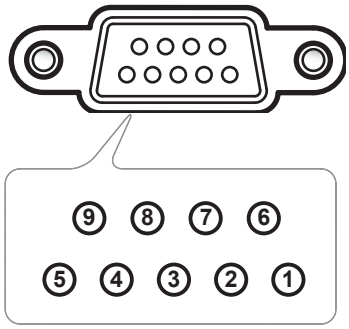
Format	Resolution	Frame Rate(Hz)	HMDI 1 (2.0)	HMDI 2 (1.4)	HMDI 3 (1.4)	HMDI 4 (1.4)
UWFHD	2560x1080	50	V	—	—	—
		59.94	V	—	—	—
		60	V	—	—	—
WQHD	2560x1440	50	V	—	—	—
		59.94	V	—	—	—
		60	V	—	—	—
WQXGA	2560x1600	50	V	—	—	—
		59.94	V	—	—	—
		60	V	—	—	—
4K UHD	3840x2160	30	V	—	—	—
		50	V	—	—	—
		59.94	V	—	—	—
		60	V	—	—	—

ADDITIONAL INFORMATION

RS232 Protocol Function List

Note: *LED display supports RS232 control command.*

RS232 Pin Assignments



Pin No.	Spec. (from LED display side)
1	N/A
2	TXD
3	RXD
4	N/A
5	GND
6	N/A
7	N/A
8	N/A

RS232 Control Connection

RS232 Settings	
Baud Rate	9600
Data Bits	8
Parity	None
Stop Bits	1
Flow Control	None

~	X	X	X	X	X		X	X	CR
Lead Code	Device ID (where 01 indicates Device ID = 01)		Command ID			Space	Variable		Carriage return

ADDITIONAL INFORMATION

SET Command

Type	Category	Parameter	CMD		Hex Code CMD	Response	
						Success	Failed
SET	Gamma	2.2	~xx35	7	7E 30 30 33 35 20 37 0D	P	F
		2.4	~xx35	12	7E 30 30 33 35 20 31 32 0D	P	F
		2.8	~xx35	4	7E 30 30 33 35 20 34 0D	P	F
	Color Temperature	Warm(5500)	~xx36	1	7E 30 30 33 36 20 31 0D	P	F
		Standard(6500)	~xx36	2	7E 30 30 33 36 20 32 0D	P	F
		Cool(7500)	~xx36	2	7E 30 30 33 36 20 32 0D	P	F
	LED Brightness	1-100	~xx251	1-100	7E 30 30 32 35 31 20 31 0D to 7E 30 30 32 35 31 20 31 30 30 0D	P	F
	Power	Power off	~xx00	0		P	F
		Power on	~xx00	1		P	F
		Restart	~xx00	3		P	F
	Input Source	Android	~xx12	24	7E 30 30 31 32 20 32 34 0D	P	F
		HDMI1	~xx12	1	7E 30 30 31 32 20 31 0D	P	F
		HDMI2	~xx12	15	7E 30 30 31 32 20 31 35 0D	P	F
		HDMI3	~xx12	16	7E 30 30 31 32 20 31 36 0D	P	F
		HDMI4	~xx12	29	7E 30 30 31 32 20 32 39 0D	P	F
	Audio Mute	Off	~xx03	0	7E 30 30 30 33 20 30 0D	P	F
		On	~xx03	1	7E 30 30 30 33 20 31 0D	P	F
		Off	~xx03	2	7E 30 30 30 33 20 32 0D	P	F
	Audio Volume	0-100	~xx81	0~100	7E 30 30 38 31 20 30 0D to 7E 30 30 38 31 20 31 30 30 0D	P	F
	Broadcast Text	ReSync	~xx210	n: 1-30 characters	7E 30 30 32 31 30 20 6E 3A 0D		

ADDITIONAL INFORMATION

GET Command

Type	Category	Parameter	CMD		Hex Code CMD	Response		
						Success		Failed
GET	Color Temperature	Warm(5500)	~xx128	1	7E 30 30 31 32 31 20 31 0D	Ok	3	F
		Standard (6500)	~xx128	1	7E 30 30 31 32 31 20 31 0D	Ok	0	F
		Cool(7500)	~xx128	1	7E 30 30 31 32 31 20 31 0D	Ok	1	F
	LED Brightness	1-100	~xx125	1	7E 30 30 31 32 35 20 31 0D	Ok	1~100	F
	Power	Power off	~xx124	1	7E 30 30 31 32 34 20 31 0D	Ok	0	F
		Power on	~xx124	1	7E 30 30 31 32 34 20 31 0D	Ok	1	F
	Input Source	Android	~xx121	1	7E 30 30 31 32 31 20 31 0D	Ok	20	F
		HDMI1	~xx121	1	7E 30 30 31 32 31 20 31 0D	Ok	7	F
		HDMI2	~xx121	1	7E 30 30 31 32 31 20 31 0D	Ok	8	F
		HDMI3	~xx121	1	7E 30 30 31 32 31 20 31 0D	Ok	9	F
		HDMI4	~xx121	1	7E 30 30 31 32 31 20 31 0D	Ok	25	F
	Audio Mute	Off	~xx356	1	7E 30 30 33 36 35 20 31 0D	Ok	0	F
		On	~xx356	1	7E 30 30 33 36 35 20 31 0D	Ok	1	F
		Off	~xx356	1	7E 30 30 33 36 35 20 31 0D	Ok	0	F
	Audio Volume	0-100	~xx120	1	7E 30 30 31 32 30 20 31 0D	Ok	0-100	F
GET	IP Address		~xx451	2	7E 30 30 34 35 31 20 32 0D	Ok	aaa_bbb_ccc_ddd	F
	MAC Address		~xx555	1	7E 30 30 35 35 35 20 31 0D	Ok	nn:nn:nn:nn:nn:nn	F
	Network (Connect Status)	0	~xx87	1	7E 30 30 38 37 20 31 0D	Ok	0	F
		1	~xx87	1	7E 30 30 38 37 20 31 0D	Ok	1	F
	Led Display Hours		~xx108	1	7E 30 30 31 30 38 20 31 0D	Ok	a = hours	F
	Serial Number		~xx353	1	7E 30 30 33 35 33 20 31 0D	Ok	a001 = serial number	F
	Device Model Name		~xx151	3	7E 30 30 31 35 31 20 33 0D	Ok	FHQC135	F
	Device Type		~xx149	1	7E 30 30 31 34 39 20 31 0D	Ok	3	F
	Android version		~xx122	2	7E 30 30 31 32 32 20 32 0D	Ok	android version	F

LED Indicator

Power LED Color & Behavior	Status
Solid Red	Standby mode
Solid Blue	Power on

ADDITIONAL INFORMATION

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