OWNER'S MANUAL

LG Digital Signage

(MONITOR SIGNAGE)

Please read this manual carefully before operating your set and retain it for future reference.

65TR3DJ-B	65TR3DJ-I	65TR3DJ-E
75TR3DJ-B	75TR3DJ-I	75TR3DJ-E
86TR3DJ-B	86TR3DJ-I	86TR3DJ-E

www.lg.com

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Warning: This equipment is compliant with Class A of CISPR 32. In a residential environment this equipment may cause radio interference.

SAFETY PRECAUTIONS

The safety precautions are intended to prevent unexpected danger or harm by helping the user to use the product safely and for its intended purpose.

⚠ WARNING

If you ignore the warning message, you may be seriously injured or there is a possibility of accident or death.

⚠ CAUTION

If you ignore the caution message, you may be slightly injured or the product may be damaged.

⚠ WARNING

Indoor Use Only.

Precautions for the AC Adapter and Power

⚠ WARNING

- Use only the power cord or AC adapter provided or approved by LG Electronics, Inc. If you use another power cord, make sure that it is certified by the national standards. If the power cable is faulty in any way, please contact the manufacturer or the nearest authorized service center for a replacement.
- Operate the display only from a power source(i.e. voltage) indicated in the product specification.
  - Otherwise the product can be damaged, fire can occur or you may be electrocuted. If you are not sure what type of power supply you have, consult a certified installation company.
- Make sure the power cord connect to a properly grounded outlet.
  - If you do not you may be electrocuted or injured or the product can be damaged.
- Insert the power plug or AC adapter firmly so it cannot come loose.
  - Poor connection may cause a fire or electric shock.
- In the presence of thunder and lightning, never touch the power cord and signal cable because it can be very dangerous.
  - It can cause electric shock.
- Be careful not to step or place heavy objects (electronic appliances, clothing, etc.) on the power cord or AC adapter. Additionally, do not bend or pull out the power cord or AC adapter with excessive force.
  - Damaged power cords may cause a fire or electric shock.
- Do not connect power cord or AC adapter damaged with sharp objects to power outlet.
  - You may be electrocuted.
- Do not insert a conductor (like a metal chopstick) into one end of the power cord while the other end is connected to the input terminal on the wall. Additionally, do not touch the power cord right after it is unplugged.
  - You may be electrocuted.
- Do not use with a multi-outlet connected by many electrical product and heating devices. Use an exclusive multi-outlet with a grounding terminal.
  - A fire can break out due to overheating.

- If water or any foreign substance goes inside the product, disconnect the power cord immediately and contact the service center.
  - Otherwise, this may cause a fire or electric shock due to damage to the product.
- Keep the power cord or AC adapter away from any heating devices.
  - The cord coating may melt and cause fire or electric shock.
- Never disassemble, repair or modify the power cord or AC adapter.
  - This may cause a fire or electric shock.
- The main cutoff device is the power cord. Please make sure the product is installed near the wall outlet and that it is easily accessible.
- As long as this unit is connected to the AC wall outlet, it is not disconnected from the AC power source even if the unit is turned off.
- Power consumption will be '0' only when the power plug is unplugged.
- Use the appliance coupler as the disconnect device.

⚠ CAUTION

- If the outlet pins of the power plug or AC adapter is covered with dust, be sure to wipe them and keep them clean.
  - Overheating due to layers of dust may cause a fire or electric shock.
- If the outlet pins of the power plug or AC adapter is covered with water be sure to wipe them and keep them clean. Additionally, Do not touch the power plug or AC adapter with wet hands.
  - This may cause an electric shock.
- Do not turn the product on or off by plugging in or unplugging the power plug from the power outlet. Do not use the power socket as a switch.
  - This may cause an electric shock or product malfunction.
- Do not unplug the power cord while the product is in use.
  - Electrical shock can damage the product.

Precautions for Moving the Product

WARNING

- Contact the service center before moving the product.
  - It may cause electric shock and damage the product.
- Make sure the product is turned off, unplugged, and all cables have been removed before the product is moved.
  - You may be electrocuted or the product can be damaged.
- When moving the product, do not shock or cause an impact on the front panel.
  - You may be electrocuted or the product can be damaged.
- Use the correct number of people according to the weight of the product. (Under 25 Kg (55.1 lbs) per person use lifting equipment when exceeding 100 Kg (220.4 lbs))
  - If use the damaged product again, contact the service center because it can cause electric shock or fire.
- Do not hold it upside down while holding only the stand. (It is for stand supported models only.)
  - This may cause stand warping, panel damage and other types of product damage.

CAUTION

- Do not dispose of the product-packing box. Use it when moving by putting the product in the box to carry it.

Precautions for Installing the Product

⚠ WARNING

- Contact the service center before installing the product.
  - It can cause electric shock and damage the product.
- Do not drop an object on or impact on the product. Keep out of reach of children and do not place toys or objects near the product to prevent throwing things on the product screen.
  - It can cause injury to human, problem to product and damage the display.
- Do not put heavy objects on, or hang from, the product.
  - If the product collapses or is dropped, you may be injured.
- Do not touch the surface of the product if it overheats.
  - It can cause injury to human.
- Install the product firmly fixed on a floor, wall, etc. to prepare against external impact such as wind and earthquake.
  - You must refer to the manual provided.
- Prevent Children from climbing or hanging on the product.
  - If the product collapses or is dropped, you may be injured.
- Do not install it where there are heating devices such as electrical heaters or lighting equipment.
  - Fire, electrical shock, malfunction may occur.
- Do not install this product by yourself as you may injure yourself or cause damage to the product. Please contact service engineer authorized by service center.
- Do not install this product on a wall if it could be exposed to oil or oil mist.
  - This may damage the product and cause it to fall.
- Do not leave the power or signal cable, etc. on the pathway.
  - This could cause a trip or fall, which could cause an electrical shock, fire, product breakdown, or injury.
- Do not let the product drop when connecting it to an external device connected with a short cable.
  - This may cause injury and damage to the product.
- If you drop the product or the case is broken, turn off the product and unplug the power cord and contact the service center.
  - If you continue to use without taking proper measures, electrical shock or fire can occur.
- Install the product in a dry place where it is not near dust and water. Avoid high temperatures and humidity.
  - This may cause electrical shock, fire or product damage.
- Safely install the product in a place that can hold the weight of the product.
  - A lack of strength may cause the product to fall.
- Take a comfortable and natural position to relax the muscles when working with a product.

⚠ CAUTION

- Install the product where no Electromagnetic Interference occurs.
- If you install the product in a place that does not meet the recommended conditions, this may cause serious damage to the product’s picture quality, life cycle, and appearance. Please check with service engineer before installing. Please do not install the product in places such as where there is an abundance of fine dust or oil mist, chemical substances are used, exposed to direct sunlight, the temperature is very high or low, the humidity is very high.
- Make sure the product is well ventilated by Installing at a distance (100 mm (3.9 inches) or more) from the wall.
  - If you install the product too close to the wall, it may be deformed or fire can break out due to internal heat buildup.
- Do not cover the product with a tablecloth or a curtain or other materials (e.g. plastic) while plugged in. Do not block the ventilation hole of the product.
  - The product can be deformed or fire can break out due to overheating inside the product.
- Do not install the product in an area with poor ventilation (e.g. on a bookshelf, in a closet) or outside and avoid placing on cushions or carpets.
  - The product could catch fire due to overheating inside the product.
- Install the product on a flat and stable place that is large enough to support the product.
  - If the product is dropped, you may be injured or the product may be broken.
- When installing the product on a shelf or cabinet, make sure that the bottom end of the product is not protruding forward.
  - The product may fall due to unbalanced center of gravity, which may cause personal injury or damage to the product. Be sure to use cabinets or shelves that fit your product.

Precautions for Cleaning the Product

WARNING

- Keep the product clean at all times.
  - If you don’t clean the unit for a long time and it becomes covered in dust, it can cause fire or product damage.
- When you need to clean the inside of the product, you must contact the service center.
  - Otherwise, cleaning without support may cause a fire, electric shock, or damage to the product.
- When cleaning the product, unplug the power cord and wipe gently with a soft cloth to prevent scratching.
  - An electric shock may occur or damage to the screen if its scratched.
- When you want to clean the front frame, spray water onto a soft cloth 2 to 4 times and wipe in one direction only.
  - Too much moisture may cause staining.

CAUTION

- When cleaning the product or the screen, unplug the power cord and wipe it gently with a soft cloth. Do not spray water or other liquids directly on the product. Especially, do not clean your product with chemicals including glass cleaner, any type of air freshener, insecticide, lubricants, wax (car, industrial), abrasive, thinner, benzene, alcohol, etc., which can damage the product or its panel.
  - This may result in fire, electric shock or product damage (deformation, corrosion or breakage).

Precautions for Using the Product

⚠ WARNING

- Do not use the product in any environment with excessively high temperatures or humidity.
  - It may cause electrical shock or damage the product.
- If you use the product for a long period of time, take a rest from time to time to protect your vision.
  - Extended viewing could result in impaired vision.
- Listening at high volume or using for a long time can cause damage to your hearing.
- In the event that liquid or a foreign object falls into the product, please switch it off and unplug it from the wall outlet and contact the service center.
  - Otherwise, the product may cause fire or electric shock.
- In the event that no image appears on the screen or no sound is heard, stop using the product. Switch it off immediately, unplug it from the power outlet and contact the service center.
  - Otherwise, the product may cause fire or electric shock.
- Do not drop an object or impact on the product or screen.
  - It can cause injury to human, problem to product and damage the screen.
- If you can smell smoke or other odors or hear a strange sound, unplug the power cord and contact the service center.
  - If you continue to use the product without taking proper measures, it may cause electrical shock or fire.
- Do not attempt to disassemble, repair or modify the product yourself. Please contact service center if you need to repair it.
  - Fire or electric shock can occur.
- Do not place objects filled with liquids such as vases, cups etc. on or over the product to prevent liquid from entering the product.
  - Failure to do so may result in fire, electric shock, malfunction or deformation.
- Do not push hard on or scratch the product’s surface with your hands or sharp objects, such as nails, pencils or pens. Do not shock or scratch the front and sides of the screen with metallic objects.
  - This may damage the products and cause it to malfunction.
- Do not touch the product if it has been exposed to sunlight or an intense light because it could be hot.

- Do not use high voltage electrical goods near the product (e.g., a bug zapper).
  - This may result in product malfunction if it receives an electrical shock.
- If there is a gas leak, do not touch the outlet, and open the windows for ventilation.
  - Otherwise, the product may cause fire or electric shock.
- If you drop the product or the case is broken, turn off the product and unplug the power cord.
  - If you continue to use without taking proper measures, electrical shock or fire can occur. Contact the service center.
- Keep small accessories out of the reach of children.
  - If a child swallows it, consult a doctor immediately.
- Keep out of reach of children from the product. Also, do not throw toys or objects at the product or screen.
  - It can cause injury to human, problem to product and damage the screen.
- All the power sources must be disconnected by removing the power cables to remove all power from the unit.

⚠ CAUTION

- This panel is an advanced product that contains millions of pixels. You may occasionally see pixel spots when viewing the screen. Since these deactivated pixels are not a defect, the performance and reliability of the product is not affected.
- Do not put or store inflammable substances near the product.
  - There is a danger of explosion or fire.
- Keep the proper distance from the product.
  - It can cause damage to your vision if you look at the product too closely.
- Set the appropriate resolution and frequency by products.
  - It can cause damage to your vision.
- Take a regular break when working with the product for a long time.

Precautions for Using the Remote control

⚠ WARNING

- Avoid places with high humidity.
  - It may cause electrical shock or damage the product.
- Do not expose batteries to excessive heat, such as direct sunlight, open fireplace, and electric heaters.
  - It may cause fire and you may be injured.
- Make sure that children do not swallow the remote control batteries when you replace them. Keep batteries out of reach of children.
  - If a child swallows a battery, consult a doctor immediately.
- Do not dispose of batteries in a fire.
  - Please dispose batteries at a local recycling center or a retail store that handles batteries.
- Used batteries, which include rechargeable batteries, should be recycled separately from waste.
  - Please dispose used batteries and rechargeable batteries at a local recycling center or a retail store that handles batteries.

⚠ CAUTION

- Do not short circuit and disassemble of batteries.
  - It may cause electrical shock or fire.
- The remote control may not function properly in sunlight or under a strong lamp. Move the product if it is being used in these conditions.
- Check if there is any obstacle between the product and the remote control.
- Do not mix new batteries with old batteries.
  - Overheating or leaking batteries may cause fire or electric shock.
- Only use the specified type of battery. Do not insert batteries that are not rechargeable into the charger.
  - Overheating or leaking batteries may cause fire or electric shock.

Precautions for Experiencing Image Retention

- Displaying a still image for a prolonged period of time may cause damage to the screen, resulting in image retention. Most third-party products have the same issue. The resulting damage is not covered by the product warranty.
  - Use a screen saver when using the monitor for a prolonged period of time.

Product Disposal

- Do not dispose of this product with general household waste.
- Disposal of this product must be carried out in accordance to the regulations of your local authority.

ASSEMBLY AND PREPARATION

CAUTION

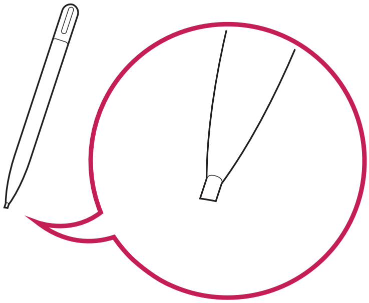
- Always use genuine components to ensure safety and product performance.
- The product warranty will not cover damage or injury caused by the use of counterfeit components.

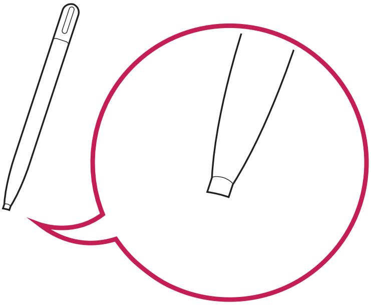
NOTE

- The accessories provided with your product may vary depending on the model or region.
- Product specifications or contents in this manual may be changed without prior notice due to upgrade of product functions.
- The warranty will not cover any damage caused by using the product in an excessively dusty environment.

Precaution When Using the Touch Pen

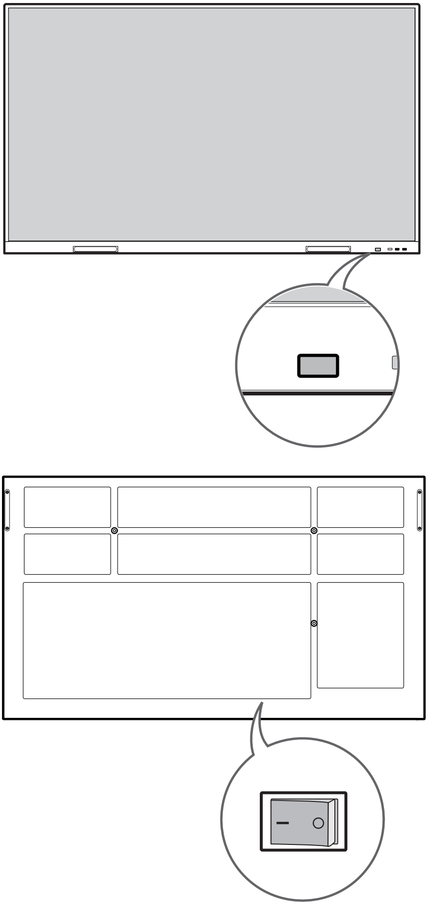
When the touch pen is worn as shown in the figure, replace it.





Parts and Buttons

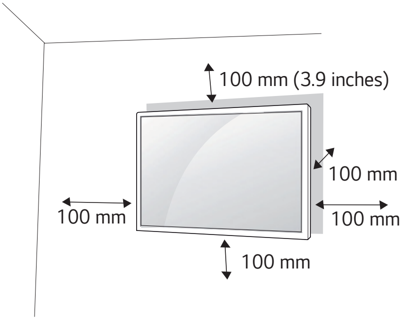
The image may be different according to the model.



– ○	**Power**	Turns the power on or off.
▭		

Installing on a Wall

For proper ventilation, allow a clearance of 100 mm (3.9 inches) on each side and from the wall. Detailed installation instructions are available from your dealer, see the optional Tilt Wall Mounting Bracket Installation and Setup Guide.



To install your monitor on a wall, attach a wall mounting bracket (optional part) to the back of the monitor.
Make sure that the wall mounting bracket is securely fixed to the monitor and to the wall.

1. Use only screws and wall mounting brackets that conform to VESA standards.
2. Screws which are longer than standard length may damage the inside of the monitor.
3. A non-VESA standard screw may damage the product and cause the monitor to fall. LG Electronics is not liable for any accidents related to the use of non-standard screws.
4. Please use VESA standard as below.

- 785 mm (30.9 inches) and above

  * Fixing screws: Diameter 8.0 mm x Pitch 1.25 mm x Length 14 mm
  (Diameter 0.3 inches x Pitch 0.04 inches x Length 0.5 inches)

785 mm
(30.9 inches)

CAUTION

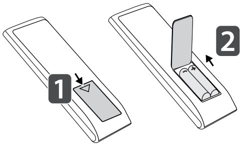
- Disconnect the power cord before moving or installing the monitor to avoid risk of electric shock.
- If you install the monitor on a ceiling or slanted wall, it may fall and result in injury. Use an authorized LG wall mount and contact your local dealer or qualified personnel to assist with the installation.
- Do not over tighten the screws as this may damage the monitor and void your warranty.
- Use only screws and wall mounting brackets that meet the VESA standard. Any damage or injuries caused by misuse or use of improper accessories are not covered by the warranty.

NOTE

- The wall mount kit includes the installation guide and all necessary parts.
- The wall mounting bracket is optional. You can obtain additional accessories from your local dealer.
- The length of screws required may differ depending on the wall mount. Be sure to use the correct length.
- For more information, please refer to the guide provided with the wall mount.

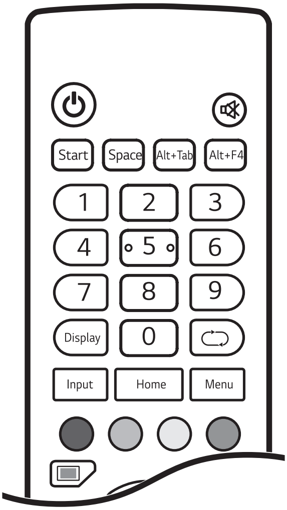
REMOTE CONTROL

The descriptions in this manual are based on the buttons on the remote control. Please read this manual carefully to use the monitor correctly. To install batteries, open the battery cover, place batteries (1.5 V AAA) matching ⊕ and ⊖ terminals to the labels inside the compartment, and close the battery cover. To remove the batteries, perform the installation actions in reverse. The illustrations may differ from the actual accessories.



⚠ CAUTION

- Do not mix old and new batteries, as this may damage the remote control.
- Be sure to point the remote control toward the remote control sensor on the monitor.
- Some features of the remote control may not be supported in certain models.
- The product's internal and external batteries should not be exposed to excessive heat such as direct sunlight, fire, or the like.



⏻ **(POWER)** Turns the monitor on or off.

🔇 **(MUTE)** Mutes all sounds.

Start (Built-in computer) Works the same way as the Window key.

Space (Built-in computer) Works the same way as the Space key.

Alt+Tab (Built-in computer) Works the same way as the Alt+Tab key.

Alt+F4 (Built-in computer) Works the same way as the Alt+F4 key.

Number buttons Enters numerical characters depending upon the setting.

Display Displays the currently applied external input on the screen.

Input Displays the external input settings window.

Home Returns to the default screen.

🔁 The function is not supported in this model.

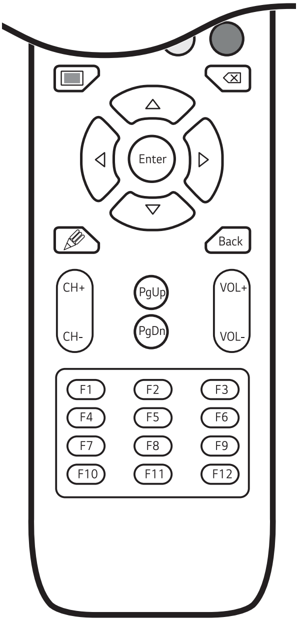
Menu Displays the general settings window.

● Enables or disables the power button or touch function of the front of the product.

● Enables or disables the power button on the front of the product.

○ Enables or disables the touch function.

● Turns on or off the function to pause the screen.



▣ Turns on or off the whole screen.

⌫ (Built-in computer) Works the same way as the Backspace key.

Navigation Buttons Scrolls through menus or options.

Enter Selects menus or options and confirms your input.

✎ Turns the note feature on.

Back Allows you to move back one step in the user interaction function.

CH+/- Scrolls through the saved programmes/channels.

PgUp Moves to the top of the screen.

PgDn Moves to the bottom of the screen.

VOL+/- Adjusts the volume.

Function Keys (Built-in computer) Works the same way as the Function key.

MAKING CONNECTIONS

You can connect various external devices to your monitor. Change the input mode and select the external device you want to connect. For more information about external device connections, see the user manual provided with each device.

Connecting to a PC

Some of the cables are not provided. This monitor supports the Plug and Play* feature.

* Plug and Play: a feature that enables a PC to recognize devices attached by the user without device configuration or user intervention when powering up.

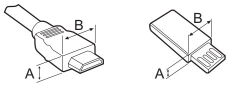
External Device Connection

Some of the cables are not provided. Connect a HD receiver, DVD, or VCR player to the monitor and select an appropriate input mode.

For the best picture and sound quality, connecting external devices to your monitor using HDMI cables is recommended.

NOTE

- For the best image quality, using the monitor with HDMI connection is recommended.
- To comply with the specifications of the product, use a shielded interface cable with ferrite core, such as a HDMI cable.
- If you turn the monitor on when the set is cold, the screen may flicker. This is normal.
- Sometimes red, green, or blue spots may appear on the screen. This is normal.
- Use a High Speed HDMI®/™ cable (shorter than 3 m (9.8 ft)).
- Use a certified cable with the HDMI logo attached. If you do not use a certified HDMI cable, the screen may not display or a connection error may occur.
- Recommended HDMI Cable Types
  - High Speed HDMI®/™ Cable
  - High Speed HDMI®/™ Cable with Ethernet



HDMI: A ≦ 11.65 mm (0.4 inches) ; B ≦ 20.65 mm (0.8 inches)
USB: A ≦ 8.3 mm (0.3 inches) ; B ≦ 16 mm (0.6 inches)

- If you cannot hear any sound in HDMI mode please check your PC settings. Some PCs require you to manually change the default audio output to HDMI.
- You may experience compatibility issues if you use HDMI-PC mode.
- Make sure the power cable is disconnected.
- If you connect a gaming device to the monitor, use the cable provided with the gaming device.

CAUTION

- Connect the signal input cable and tighten it by turning the screws clockwise.
- Do not press the screen with your finger for a prolonged period as this may result in temporary distortion on the screen.
- Avoid placing a reflective object in front of the set at a distance of 50 cm (19.6 inches) or less.
- Avoid displaying static images on the screen for a long period of time to prevent image retention. Use a screensaver if possible.
- A wireless communication device near your monitor can affect the image.

Using the Input List

Input →

- Android → HDMI1 → HDMI2 → HDMI3 → VGA

* The PC input is only enabled when a computer is connected.

TROUBLESHOOTING

» Each model may have different points to check.

» For information on your PC settings, refer to the Windows Help.

Issues Related to Use

- The power won't turn on.
  - Check if the power cord is correctly plugged into the power outlet.
- The 'Unknown Product' message appears when the product is connected.
  - Check if the driver for the graphics card is installed.
  - Check if the Plug and Play function is supported by referring to the graphics card user manual.

Issues Related to Screen (Video)

- A message saying 'No signal' or 'Invalid Format' appears.
  - The signal cable is not connected between the PC and the product, or the cable connection status is unstable. Check the signal cable.
  - Access the input menu to check the input signal.
  - The signal from the PC (Graphics card) is out of the vertical or horizontal frequency range of the product. Adjust the frequency range by referring to the Specifications in this manual.
- The position of the screen is incorrect.
  - Check if the graphics card resolution and frequency are supported by the product. If the frequency exceeds the supported range, use PC settings to set the resolution to the recommended value.
- The screen is displayed abnormally.
  - Connect the signal cable that matches with the source input signal.
- Images are flickering or fluttering on the screen.
  - If you turn the monitor on when it is cold, the screen may flicker. This is normal.
  - Make sure that the current resolution and frequency settings of the graphics card are supported by the monitor.

Issues Related to Screen (Color)

- Screen has poor color resolution (16 colors).
  - Use PC settings to set the color to 24 bits (True Color) or above.
- Screen color is unstable or mono-colored.
  - Check the connection status of the signal cable. Or, re-insert the PC graphics card.
- I see dark or bright spots on the screen.
  - Some pixels (red, green, blue, black) are visible on the screen due to the unique characteristics of the display panel. This is not a malfunction of the product.

Issues Related to Sound

- The audio doesn't work.
  - See if the audio cable is connected properly.
  - Adjust the volume of the product or external device.
  - See if the sound is set properly.
- Sound is too dull.
  - Select the appropriate equalizer sound.
- Sound is too low.
  - Adjust the volume of the external device.
- For some models, you will need to purchase external speakers separately since they do not have speakers built-in.

Other Issues

- The power suddenly turned off.
  - Check if the 'Power Off Time' is set.
  - Power interrupted. See if the product power cord is connected properly.
  - check the power control settings.

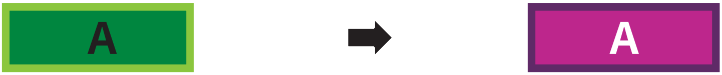
I have a problem with touch response.

- Touch does not respond.
  - This may occur when the USB cable between PC and monitor is not connected. Remove the USB cable and connect it again in 10 seconds.
  - Make sure that your PC’s power cord is firmly plugged into a power outlet and restart your PC.
  - Touch may not respond when the system is down due to the unstable network. Reconnect the LAN cable or restart your PC.
  - If your PC and monitor are not connected using a signal cable, touch does not respond. Check the signal cable connection.
  - Touch may not respond when the monitor is powered off. Check the monitor power.
  - If you do not use a grounded outlet, it may cause a break or touch error. Always connect the power cord to a grounded outlet.
  - Check if the screen is currently on.
  - A break or touch error may occur as below case.
    - > If touching the screen only with nail or fingertip
    - > If holding the touch pen or near the tip of the touch pen
    - > If using the touch pen while pressing it with strong force on the screen
- The location of a touch does not correspond to the touch coordinates.
  - This may occur when the touch screen is not calibrated properly. Change your tablet PC settings.
- A touch is applied to a monitor other than the one I intended.
  - This may occur if the monitor is not set as the default monitor when you are using multiple monitors. Set the monitor as the default monitor.
  - This may occur when the touch screen is not calibrated properly. Change your tablet PC settings.
- Multi-touch does not respond.
  - The content played (e.g. Flash Player, Paint, etc.) may not support Multi-touch points. Make sure that you use a content that supports Multi-touch point.
  - Remove the USB cable and connect it again in 10 seconds.
  - Run the content (e.g. Flash Player, Paint, etc.) again.
  - Restart your PC.
  - On the edge of the touch screen, multi-touch may work unstably.
  - If the gap between two touch points is 20 mm (0.7 inches) or less, the touch error may occur.

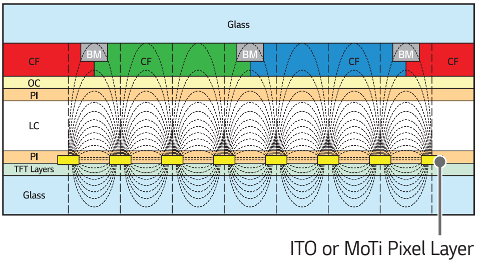
Image sticking

- After-image appears when the product is turned off.
  - If you use a fixed image for a long time, the pixels may be damaged. Use the screen-saver function.
  - When a dark image is displayed on the screen after an image with high contrast (black and white or gray), this may cause image sticking. This is normal for display products.
- When the LCD panel displays a static image for an extended period of time, it can cause a voltage difference between the electrodes that operate the liquid crystals. When the voltage difference between the electrodes builds up over time, liquid crystals have a tendency to remain aligned in one direction. During this process, a previously displayed image remains visible. This phenomenon is referred to as image sticking.
- Image sticking does not occur when using constantly changing images but may occur when using a fixed image for an extended period of time. Therefore, it is recommended that you use the instructions below to decrease the likelihood of image sticking occurring when using a fixed image. It is recommended that you change the screen at least once every 12 hours at the very minimum; if done more frequently, the prevention of image sticking is more effective.
- Recommended operating conditions

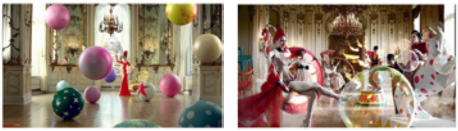
1 Change the background and the character colors using the same time interval.



- When changing colors, using complementary colors helps to prevent image sticking.



2 Change the image using the same time interval.



Make sure that the characters or images before changing the image remain in the same location after changing the image.

PRODUCT SPECIFICATIONS

The product specifications below may be changed without prior notice due to upgrade of product functions.
" ~ " refers to alternating current (AC), and " ⎓ " refers to direct current (DC).

LCD screen	Screen type	Thin Film Transistor (TFT) Liquid Crystal Display (LCD) Screen
Video signal	Maximum resolution	VGA: 1920 x 1080 @ 60 Hz HDMI1/ HDMI2/ HDMI3: 3840 x 2160 @ 60 Hz - This may not be supported on some OS or graphic card types.
	Recommended resolution	VGA: 1920 x 1080 @ 60 Hz HDMI1/ HDMI2/ HDMI3: 3840 x 2160 @ 60 Hz - This may not be supported on some OS or graphic card types.
	Horizontal frequency	HDMI1/ HDMI2/ HDMI3: 30 kHz ~ 135 kHz VGA: 30 kHz ~ 80 kHz
	Vertical frequency	HDMI1/ HDMI2/ HDMI3: 30 Hz ~ 76 Hz VGA: 50 Hz ~ 76 Hz
	Synchronization	Separate Sync/ Digital
Input/ Output ports	HDMI IN 1, HDMI IN 2, HDMI IN 3, VGA IN, USB 3.0 IN, USB 2.0 IN, LAN, AUDIO IN/OUT, RS-232C IN, TOUCH USB, OPS, SPDIF	
Embedded battery		Applied
Environmental Conditions	Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)
	Operating Humidity	10 % to 90 %
	Storage Temperature	-20 °C to 60 °C (-4 °F to 140 °F)
	Storage Humidity	10 % to 90 %
Audio	Input Sensitivity	0.5 Vrms

*** Touch Screen**

OS (Operating System)	Windows 7/ 8/ 10/ WindowsXP/ Linux/ Mac/ Android/ Chrome (WindowsXP/ Linux/ Mac are supported with the 1 Point touch function.)	20 Points
	Space between touches: at least 20 mm (0.7 inches) or more	

*** Applicable only for models that support the speakers**

Audio	RMS Audio Output	10 W + 10 W (R + L)
	Input Sensitivity	0.5 Vrms
	Speaker Impedance	8 Ω

65TR3DJ-B **65TR3DJ-I** **65TR3DJ-E**		
LCD Panel	Pixel Pitch	0.372 mm (H) x 0.372 mm (V)
Power	Rated Voltage	AC 100-240 V~ 50/60 Hz 3.0 A
	Power Consumption	On Mode: 300 W (Max) Stand By Mode: ≤ 0.5 W
Dimensions (Width x Height x Depth)/ Weight	1489 mm x 897 mm x 87 mm/ 38.75 kg (58.6 inches x 35.3 inches x 3.4 inches / 85.4 lbs)	

75TR3DJ-B **75TR3DJ-I** **75TR3DJ-E**		
LCD Panel	Pixel Pitch	0.4296 mm (H) x 0.4296 mm (V)
Power	Rated Voltage	AC 100-240 V~ 50/60 Hz 3.5 A
	Power Consumption	On Mode: 350 W (Max) Stand By Mode: ≤ 0.5 W
Dimensions (Width x Height x Depth)/ Weight	1710 mm x 1020 mm x 87 mm/ 53.1 kg (67.3 inches x 40.1 inches x 3.4 inches / 117.0 lbs)	

86TR3DJ-B **86TR3DJ-I** **86TR3DJ-E**		
LCD Panel	Pixel Pitch	0.4935 mm (H) x 0.4935 mm (V)
Power	Rated Voltage	AC 100-240 V~ 50/60 Hz 5.0 A
	Power Consumption	On Mode: 500 W (Max) Stand By Mode: ≤ 0.5 W
Dimensions (Width x Height x Depth)/ Weight	1957 mm x 1160 mm x 87 mm/ 67.45 kg (77.0 inches x 45.6 inches x 3.4 inches / 148.7 lbs)	

VGA (PC) Support mode

Resolution	Horizontal frequency (kHz)	Vertical frequency (Hz)	Remark
640 x 480	31.469	59.94	
800 x 600	37.879	60.317	
1024 x 768	48.363	60.004	
1280 x 720	45	60	
1280 x 960	60	60	
1280 x 1024	63.981	60.002	
1360 x 768	47.71	60.015	
1680 x 1050	65.29	59.954	
1920 x 1080	67.5	60	

HDMI/ OPS Support Mode

Resolution	Horizontal frequency (kHz)	Vertical frequency (Hz)	Remark
720(1440) x 480i/60 Hz	15.734	60	
480p/59 Hz	31.469	59.94	
480p/60 Hz	31.5	60	
576i/50 Hz	15.625	50	
576p/50 Hz	31.25	50	
720p/60 Hz	45	60	
1080i/60 Hz	33.75	60	
1080i/59 Hz	33.716	59.94	
1080i/50 Hz	28.125	50	
1080p/60 Hz	67.5	60	
1080p/59 Hz	67.443	59.94	
1080p/50 Hz	56.25	50	
1080p/23 Hz	26.973	23.976	
1080p/24 Hz	27	24	
1080p/25 Hz	28.125	25	
1080p/29 Hz	33.716	29.97	
1080p/30 Hz	33.75	30	
3840 x 2160/24 Hz	54	23.982	
3840 x 2160/25 Hz	56.25	25	
3840 x 2160/30 Hz	67.5	30	
3840 x 2160/50 Hz	112.5	50	
3840 x 2160/60 Hz	135	60	

NOTE

- Vertical frequency: The product display functions by the screen image changing dozens of times every second like a fluorescent lamp. The vertical frequency or refresh rate is the number of image displays per second. The unit is Hz.
- Horizontal frequency: The horizontal interval is the time taken to display one horizontal line. When 1 is divided by the horizontal interval, the number of horizontal lines displayed every second can be tabulated as the horizontal frequency. The unit is kHz.

LICENSES

Supported licenses may differ by model. For more information of the licenses, visit *www.lg.com*.

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

Supplier's Declaration of Conformity

Trade Name	LG
Responsible Party	LG Electronics USA, Inc.
Address	111 Sylvan Avenue, North Building, Englewood Cliffs, NJ 07632
E-mail	lg.environmental@lge.com

The model and serial number of the product are located on the back and on one side of the product. Record them below in case you ever need service.

MODEL

SERIAL NO.

This product qualifies for ENERGY STAR®.
Changing the factory default configuration and settings or enabling certain optional features and functionalities may increase energy consumption beyond the limits required for ENERGY STAR® certification.
Refer to ENERGYSTAR.gov for more information on the ENERGY STAR® program.

(Except for 65/75/86TR3DJ-B, 65/75/86TR3DJ-I)

Temporary noise is normal when powering ON or OFF this device.

USER GUIDE

LG Digital Signage

(MONITOR SIGNAGE)

Please read this manual carefully before operating your set
and retain it for future reference.

Android 8.0

www.lg.com

CONTENTS

INTRODUCTION

OS is an application operating system for intelligent tablet computers. You can instantly access the Launcher interface by opening the machine, as shown in Fig. 1-1.

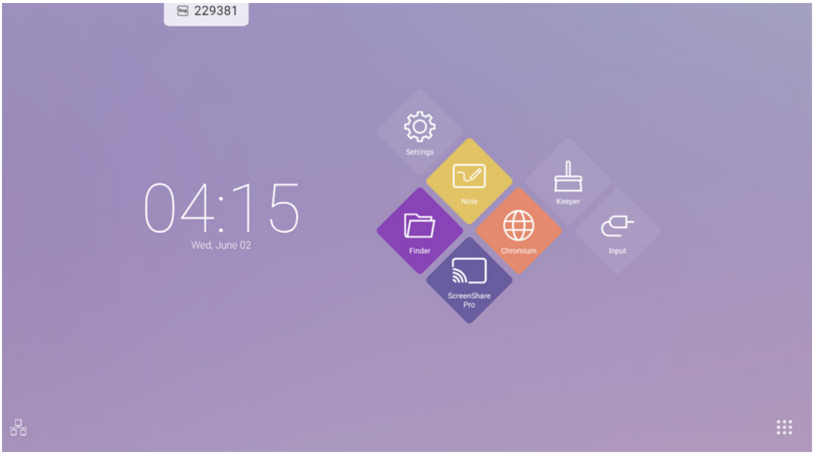


Figure 1-1 Launcher interface

Click the ⠿ button on the bottom right to access the apps, as shown in Fig. 1-2.

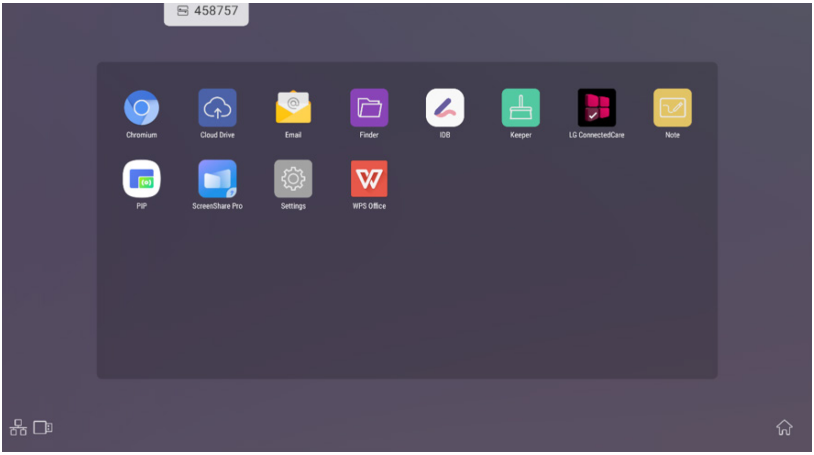


Figure 1-2 APPS

SIDEBAR

- Click the button with ▶ or ◀ on sidebar of both sides to call it out. For example, Fig. 2-1 is shown how to call out the sidebar on the right side. The functions of the sidebar include the Back Key, Home Key, Recent Tasks, Quick Note, Annotation Tools, Screen Freezing, and Small Tools.
- A valid path can be set for the sidebar on the Settings.

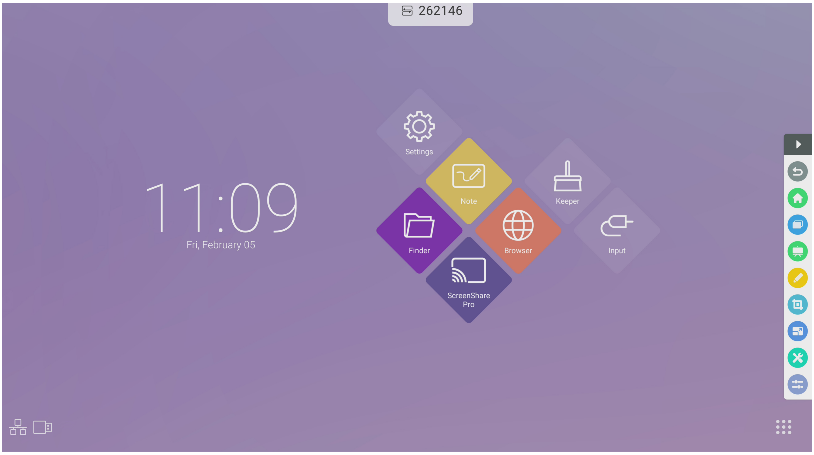


Figure 2-1 Sidebar button

Back Key

Click ↩ to return to the last operating interface.

Home Key

Click ⌂ to return to the desktop.

Recent Tasks

Click ⧉ to pop out the window and display the recently operated tasks. You can delete all the progresses by one key or delete progresses by dragging left or right.

Quick Note

Click to open Note. You can write, erase, select objects, etc. For details, please see "3 Note".

Annotation Tools

Click ✎ to pop out the annotation tools as shown in Fig. 2-5-1. The tool includes such functions as annotation, gesture erasing, screenshot, and exit. When the quick note is being used, this function is unavailable.

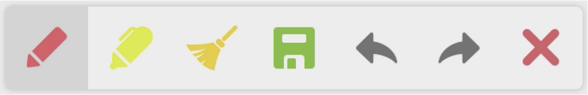
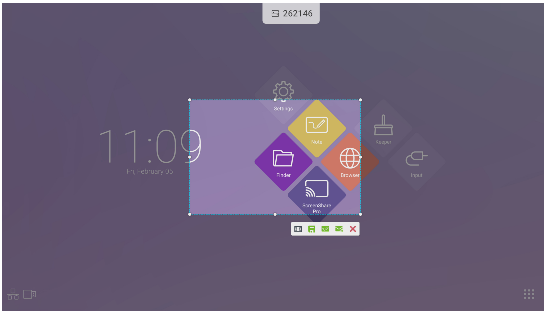


Figure 2-5-1 Annotation tool

- Annotation: After accessing this mode, you access the annotation mode completely, and you can directly write and note on the interface. You can switch the pen color by clicking it.
- Clean: Click 🧹 to clean the whole screen
- Screenshot saving: Click 💾 to save the current screenshot.
- Exit: Click ✕ to exit the annotation mode.
- Cancel input: Click ↶ to cancel the last input of the annotation.
- Rerun input: Click ↷ to rerun the input of the annotation which has been cancelled.

Partial Screen Capture

Click to open the Partial Screen Capture tools. You can take a full screenshot or a partial screenshot.



- Full Screen: Click to expand the capture area to full screen.
- Save: Click to save the currently captured area.
- Add to Note: Click to launch the Note app. The captured area is added to Note.
- Send By E-mail: Click to launch the E-mail app. The captured area is attached to an e-mail.
- Exit: Click ✕ to exit Partial Screen Capture.

Screen Freezing

Click the button to pop out the screen freezing tools. You can freeze the screen, and at the same time zoom in or out the current screen.

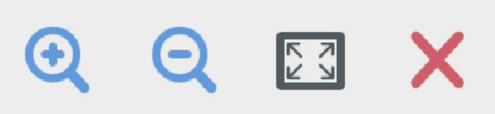


Figure 2-6-1 Screen freezing tools

- Zoom in: Click to zoom in the current screen.
- Zoom out: Click to zoom out the current screen.
- Return: Click to return to the original size of the screen.
- Exit: Click the ✕ button to exit the screen freezing.

Small Tools

Click to pop out the tool choice box, including spotlight, count down, stop watch, and air class.

Spotlight

- Click the icon to open the spotlight, as shown in Fig. 2-7-1-1. The spotlight can be used to make audience focus their attention on the location you need to emphasize
- Drag in the black area to move the location emphasized by the spotlight.

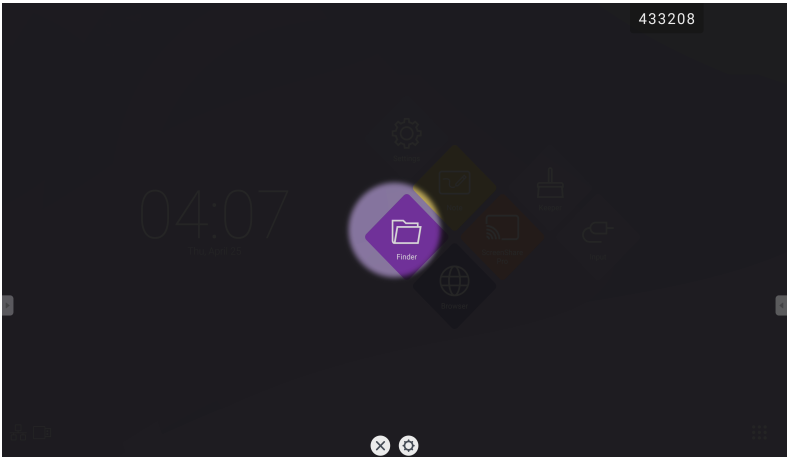


Figure 2-7-1-1 Spotlight interface

- [Settings] Click to pop out the window, as shown in Fig. 2-7-1-2.
  - [Scale] Drag the slider to adjust the range of the spotlight. You also can adjust the range of the spotlight by two fingers.
  - [Alpha] Drag the slider to set the transparency of the part sheltered by the spotlight.
- Turn off the spotlight. Click to turn off the spotlight.

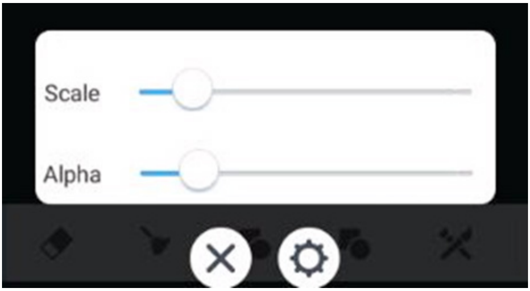


Figure 2-7-1-2 Spotlight interface

[CountDown]

- Click the ⏳ button to pop out the countdown small tool, as shown in Fig. 2-7-2-1.
- Click the [START] button to start the count down, as shown in Fig. 2-7-2-2.
- Click [PAUSE] to pause the count down. Click the [RESET] button to reset the count down to the initial status.

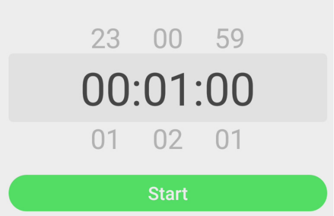


Figure 2-7-2-1 Initial interface of the countdown

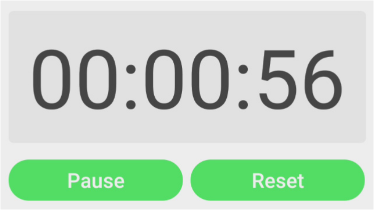


Figure 2-7-2-2 Countdown interface

Stop Watch

Click the ⏱ button to start the stop watch, as shown in Fig. 2-7-3-1. Such functions as stop watch, pausing the stop watch, continuing the stop watch, and reset are included. When you touch the other area, the Stop watch will move to the bottom of the window.

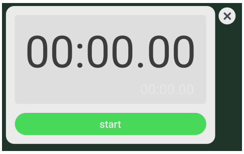
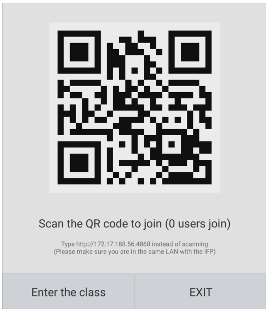


Figure 2-7-3-1 Stop watch

Air Class

- Click and enter the class. After students scan the QR code to join the class, a teacher clicks [ENTER THE CLASS].
- Please make sure you are in the same LAN with the IFP.


Scan the QR code to join (0 users join)

Type http://172.17.188.56:4860 instead of scanning
(Please make sure you are in the same LAN with the IFP)

Fig 2-7-4-1 QR code

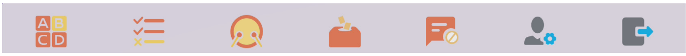


Fig 2-7-4-2 Menu bar

Voter&Judge

Click the button or button, and the answer bar appears on the lowest corner of the teaching interface. Click [Single choice] or [Multiple choice] to select the question type.

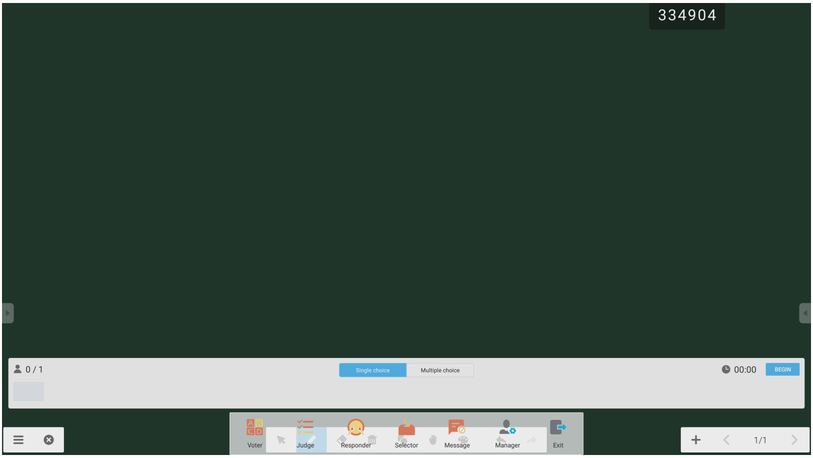


Fig 2-7-4-1-1 Voter

Answer. Click [Begin] to start answering question. After students answer the question, their names turn blue.

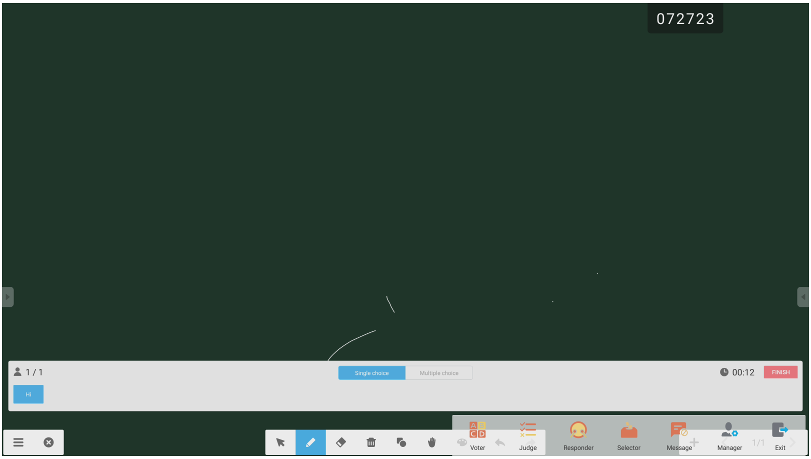


Fig 2-7-4-1-1 Voter

Answers statistics: Click [Finish] to finish answering questions, and you can access the answers statistics page.

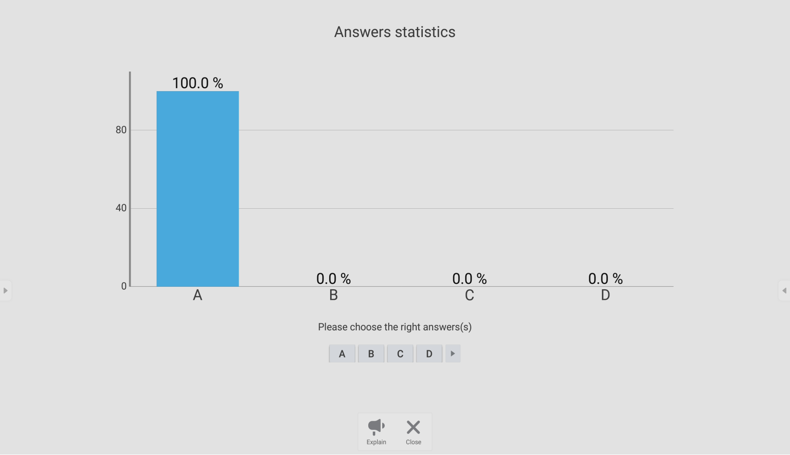


Fig 2-7-4-1-3 Answers statistics

Choose the right answer(s), and calculate the accuracy.

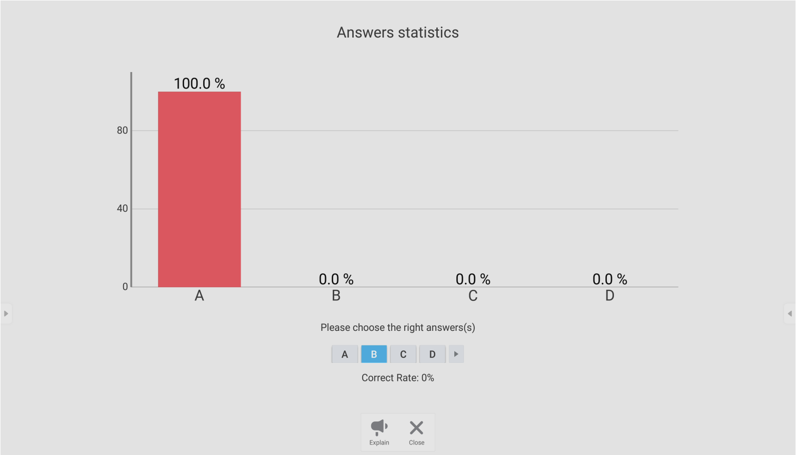


Fig 2-7-4-1-4 Answers statistics

Explain: Click the 📢 [Explain] button on the answers statistics to access the teaching page. Users can view the question explanation while checking the answers situation.

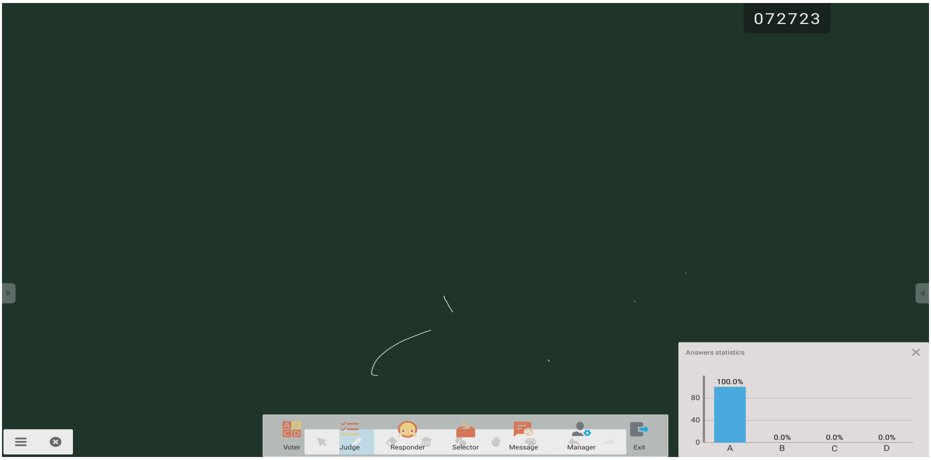


Fig 2-7-4-1-5 [Explain]

Responder

Click the button to access the responder part. Students can responder by pressing the [OK] key.

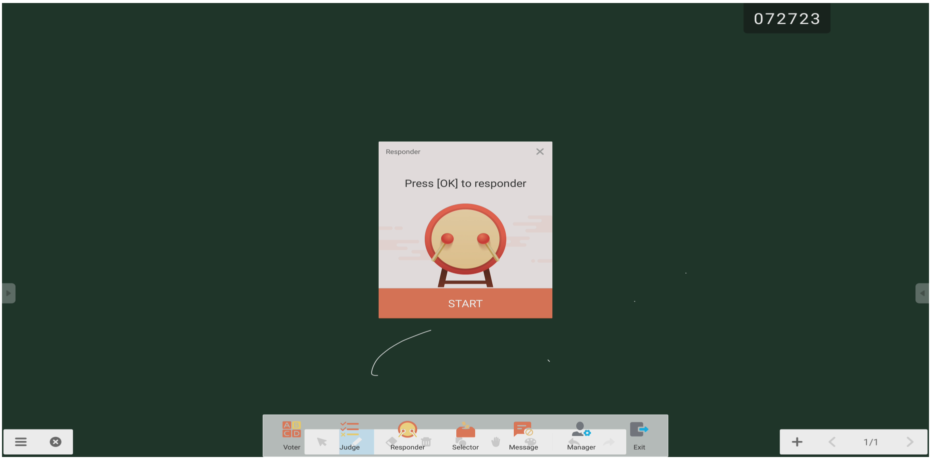


Fig 2-7-4-2-1 Responder

Selector

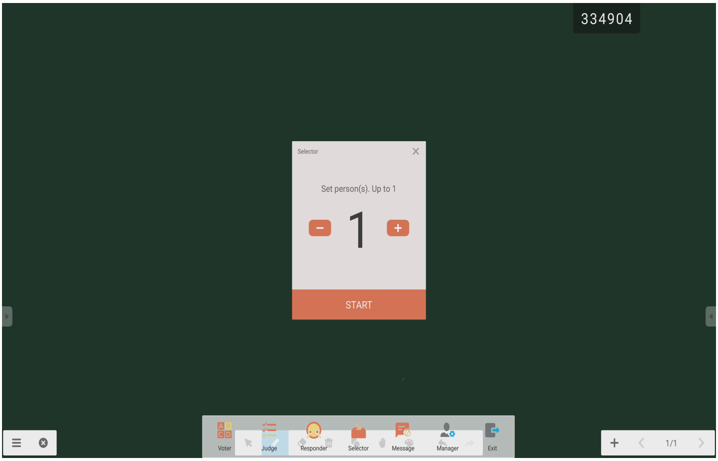
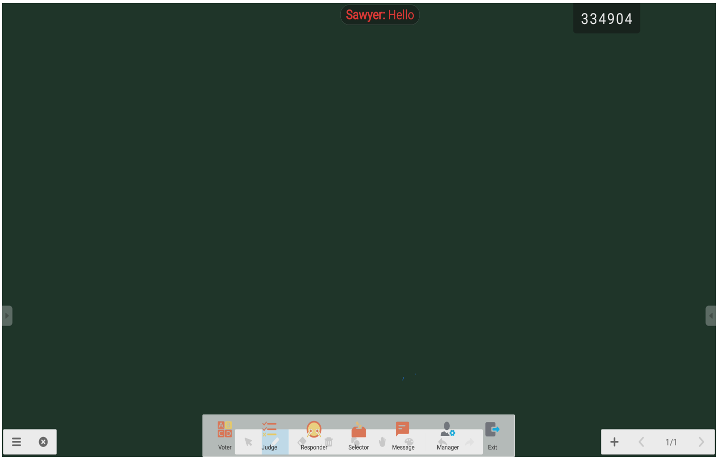


Fig 2-7-4-2-1 Selector

Click the button to choose students to answer the questions.

Message

After activating the message, students can publish the message comments on the mobile phone. The message comments are updated on the tablet computer in real time.



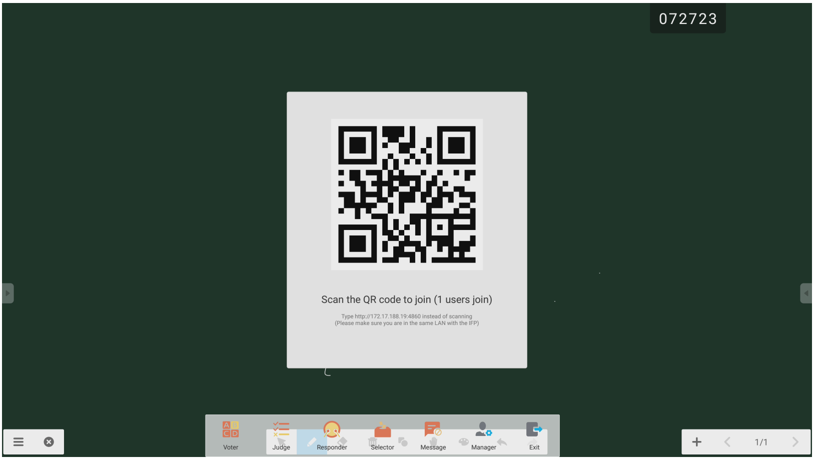
Sawyer: Hello

334904

Fig 2-7-4-4-1 Message

[Manager]

Click the [Manager] button to pop out the QR code, for ease of students in the class to join in the class.



072723

Scan the QR code to join (1 users join)

Type http://172.17.188.19:4860 instead of scanning
(Please make sure you are in the same LAN with the IFP)

Fig 2-7-4-5-1 [Manager]

Touch Menu

Click to access the Touch Menu.

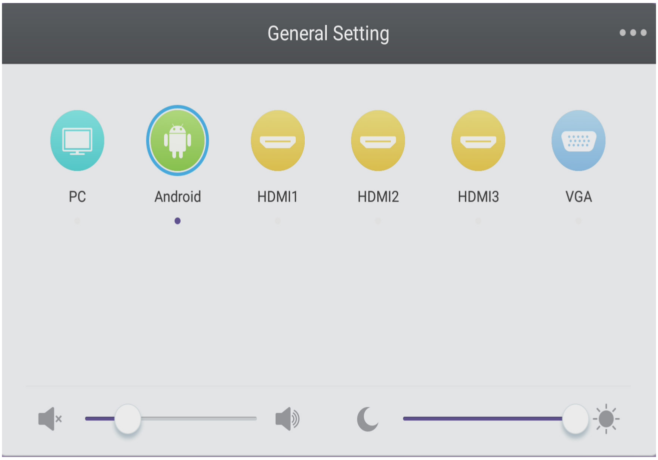


Fig 2-8-1 [General Setting]

NOTE

Click to open the Note, as shown in Fig. 3-1.

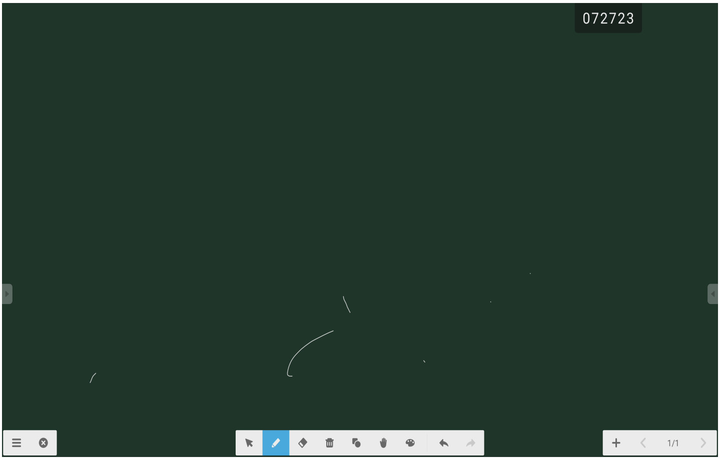


Fig 3-1 Note

Menu

Click ☰ to pop out the menu as shown in Fig. 3-1-1. The menu provides background switch and saving options for users.

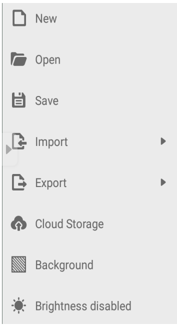


Fig 3-1-1 Start menu

- [New] Click the 🗋 button to create a whiteboard file.
- [Open] Click the 📂 button to pop out the file selection window. You can open the local .enb or .iwb format file.
- [Save] Click the 💾 button to save the current document to the file browsing in .enb format.
- [Import] Click the button to import the IMG, PDF, SVG file to the whiteboard courseware.
- [Export] Click the button to export the current whiteboard courseware in IMG, PDF, SVG, or IWB format.

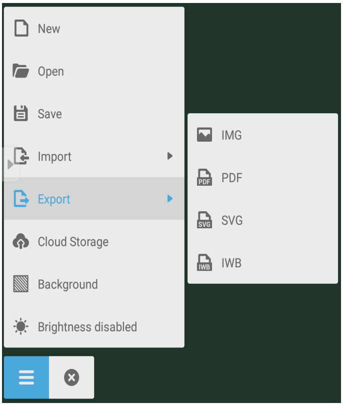


Fig 3-1-2 [Export]

- [Cloud Storage] Click the button to export and upload the current file to Google Drive and OneDrive.
- [Background] Click ▨ to switch the current page background color, which is dark green by default. Click any color to switch the page background color to the color you select.
- [Brightness disabled] Click ☀ to activate the automatic brightness adjustment, which is disabled by default.

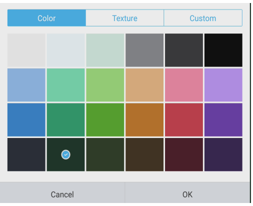


Fig 3-1-3 Color Background

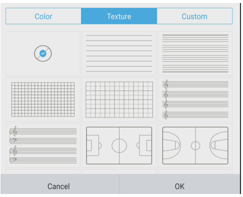


Fig 3-1-4 Texture Background

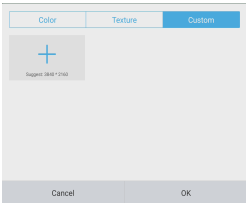


Fig 3-1-5 Custom Background

Exit

Click the ✕ close button to return to the main interface. If the current document is not saved, the saving prompt window is popped out, and users can enter the file name and save the current document; if the current document is saved, then you do not need to save it again. You can directly exit the software and return to the main interface.

Selection

- Click the ↖ button to perform selection operation on the objects of the page. By drawing any close figure or clicking the object on the interface, you can move or zoom in or out the object you select, as shown in Fig. 3-3-1.
- Separation of hand and SmartPen: When the toolbar corresponding to the Note software is selection function, users can directly write by using the SmartPen on the Note without switching the toolbar to the writing state.

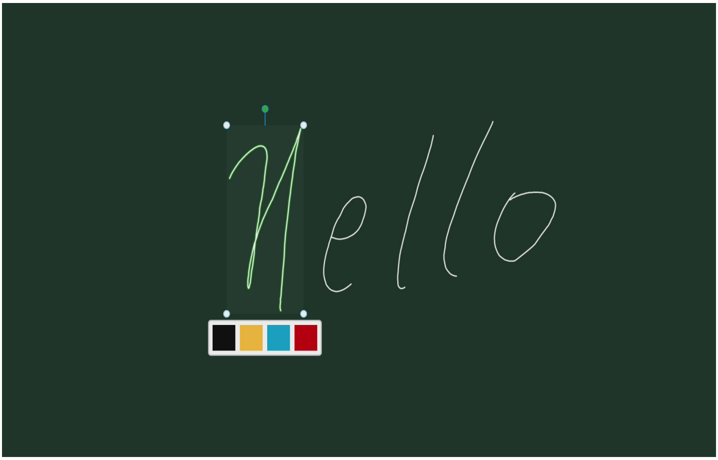


Fig 3-3-1 Selection

1) Move: Select by circling and drag the selected object to move the current object to any location.
2) Zoom in or out.
    a. Select by circling and operate the selected object by two points to zoom in or out the current object, and change the color of the current object to black, yellow, blue or red.
    b. Operate the page by two points to globally zoom in or out the current page.

Pen

Click the ✎ pen button to pop out the pen setting window. After setting the handwriting size and color, the handwriting will appear on the place you need to write when you slide.

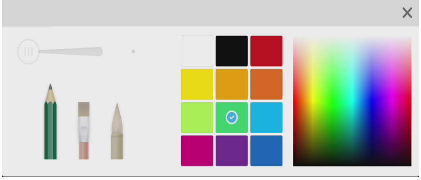


Fig 3-4-1 Pen setting

- Pen: Including pencil and a row of brushes. Pencil is set by default.
- Handwriting size: Slide the handwriting size slide bar to change the handwriting size.
- Handwriting color: Click the color of the color disk on the right side to change the handwriting color as required.

Eraser

Click ◆ to select the eraser. Select by circling the object you need to erase.

Clean

Click 🗑 to clean the whole screen.

Shape

- Click the ■● shape button to pop out the shape window.
- We provide 2D and 3D shapes you can choose.

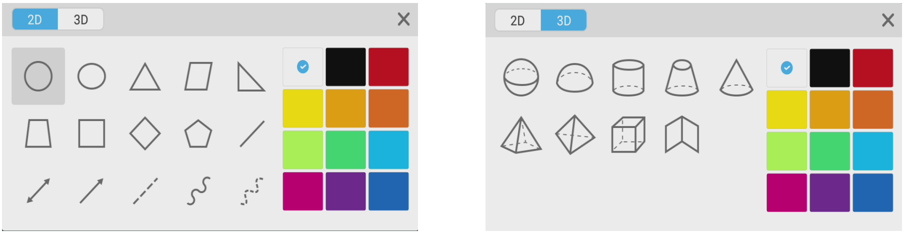


Fig 3-7-1 Shape window

Roaming

Click ✋ to select the roaming mode. You can move the whole screen with sliding

Drawing Board

Click the 🎨 button to call out the drawing board, as shown in Fig. 3-8-1.

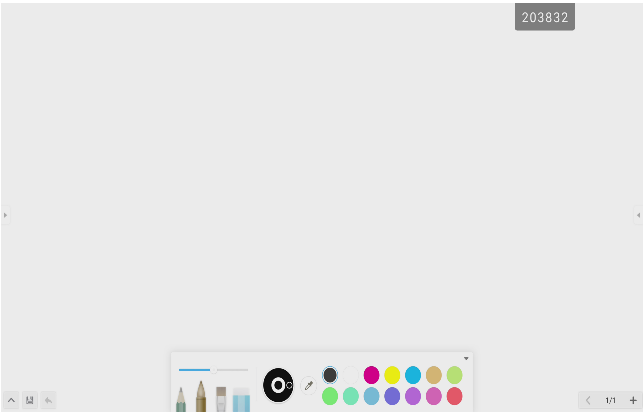


Fig 3-8-1 Drawing board interface

- Pen: Pencil is selected by default, including pencil, writing brush, a row of brushes, eraser.
- Palette: Select the color and click the palette to color in the form of rotating.
- Color picker: Click to activate the color picker and the round color picker appears on the drawing board area. Drag it to the color you want and click to finish the color picking. In this case the pen color is the selected color.
- Color disk: Users can change the color of the color circle by changing the color of the color disk.

Withdrawing

Click the ↶ withdrawing button to withdraw the previous operation.

Adding Page

Click the + button to add new page.

Previous Page

Click the < button to return to the previous page. If the current page is the first page, then you cannot click this button.

Pagination

Click 2/7 pagination to load the thumbnail of all pages. You can also directly click the thumbnail to display.

Next Page

When the current page is not the last page, click the > button to switch to the next page of the current page.

FINDER

Click 📁 to pop out the file browsing as shown in Fig. 4-1. It can browse the files saved in the system such as document, whiteboard writing, video, picture, and audio. In addition, it can automatically identify external USB device, browse files according to category, search for the files, etc.

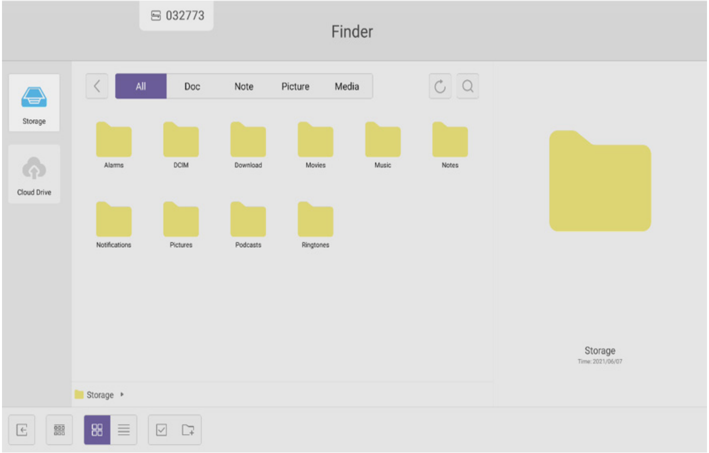


Fig 4-1 File browsing

Browsing according to Category

Users can browse resources stored in the system according to category, including document, whiteboard writing (pages saved by the whiteboard and quick screenshot), video, picture, and audio.

- [All]: When accessing internal storage module, all resources are displayed by default.
- [Doc]: Click Doc to browse PPT, Word, Excel, PDF documents.
- [Note]: Click Note to browse files and quick screenshot saved by the whiteboard.
- [Picture]: Click Picture to browse the stored pictures, formats like .jpg, .jpeg, .png, .bmp, and .gif are supported.
- [Media]: Click Media to browse the stored videos. Formats like .avi, .mp4, .vob, .mkv, .mov, .mpeg are supported.
- Search: In the input box on the right upper corner of the interface, enter the resource name you want to search, and click 🔍 to search for the resources. For example, by entering "word", you can find resources whose name is "word".

Resource operation

Users can edit the resources stored in the system, including creating, selecting, selecting all, cancelling selecting, copying, pasting, cutting, deleting, renaming, and more.

- Selecting: Click the ☑ button to switch to ✕, and a selecting box pops out on the right upper corner of the resources. Then you can select resources as required.

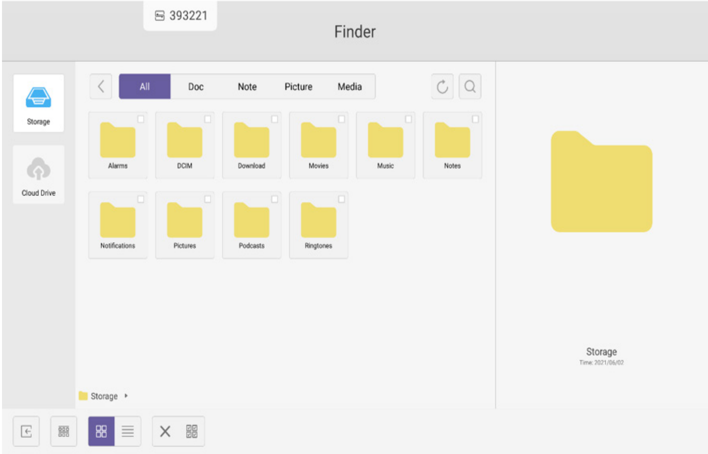
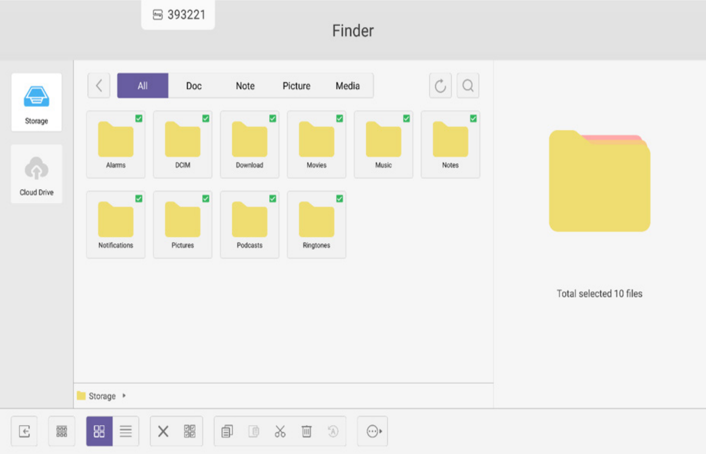


Fig 4-2-1 Selecting interface

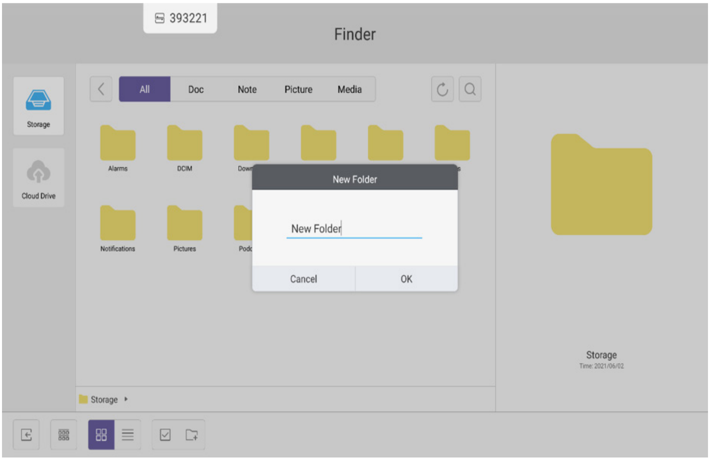
- Selecting all: By clicking the ☑☑ button, you can select all resources under the current directory.



Total selected 10 files

Fig 4-2-2 Selecting all interface

- Cancelling selecting: Click ✕ to cancel all resources that have been selected currently.
- Creating: Click to create new folders under the current directory.



New Folder

Fig 4-2-3 New Folder

- Copying: When the resource is selected, the copy button will appear. Click ⎘ to copy the currently selected resource.
- Cutting: When the resource is selected, the cutting button will appear. Click ✂ to cut the currently selected resource.
- Deleting: Click 🗑 to delete the selected resource.
- Pasting: When there is any resource being copied or cut currently, the 📋 button is available. Users can paste the copied/cut resource to the specified location as required. You can execute the pasting operation only when the default folder is displaying "all" resource locations.
- Renaming: Click Ⓐ to rename the selected resource.
- More: Click ⋯ to pop out the "send to" button. You can send the selected file to the target folder.
- Click a certain resource, the resource operation menu will pop out at the bottom of the window. You can perform operations such as deleting, copying, cutting, pasting, and renaming on the current resource.

Ordering menu

Click the ▦ ordering button to pop out the menu as shown in Fig. 4-3-1. You can order the resources, including ordering according to the name, type, size, and time. Resources are ordered according to name by default.

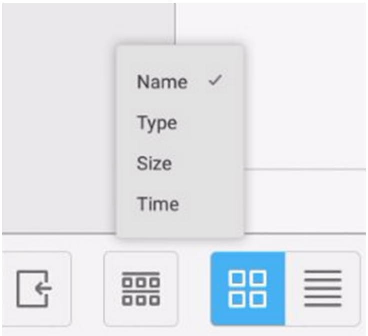


Fig 4-3-1 Ordering menu

- [Name]: When [Name] is selected, the displayed resources will be ordered according to resource name.
- [Type]: When [Type] is selected, the displayed resources will be ordered according to resource type.
- [Size]: When [Size] is selected, the displayed resources will be ordered according to resource size.
- [Time]: When [Time] is selected, the displayed resources will be ordered according to resource time.

Tile: Click ⊞ to display the resources in the form of icon. The resources are displayed in the form of icon by default, as shown in Fig. 4-3-2.

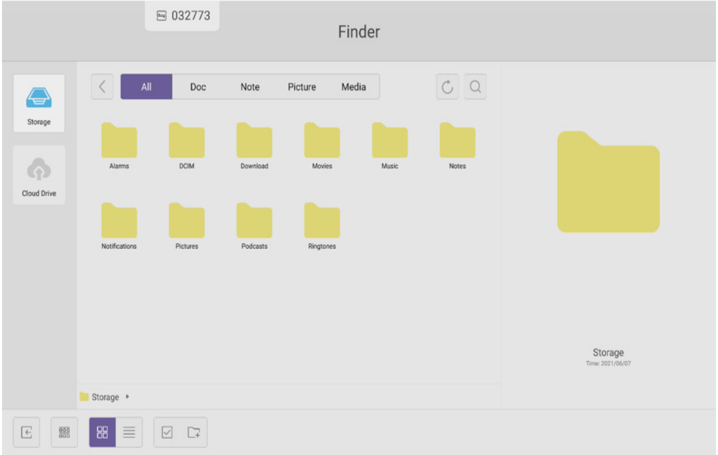
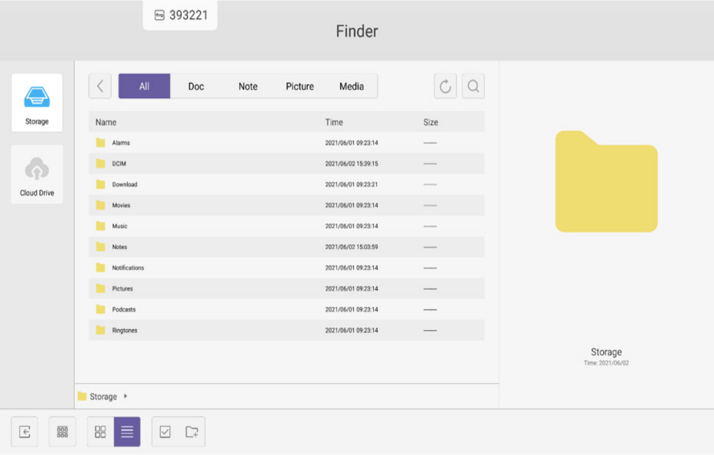


Fig 4-3-2 Tile display

List: Click ≣ to switch to display the resources in the form of detailed information, as shown in Fig. 4-3-3.



Name	Time	Size
Alarms	2021/06/01 09:23:14	——
DCIM	2021/06/02 15:39:15	——
Download	2021/06/01 09:23:21	——
Movies	2021/06/01 09:23:14	——
Music	2021/06/01 09:23:14	——
Notes	2021/06/02 15:03:59	——
Notifications	2021/06/01 09:23:14	——
Pictures	2021/06/01 09:23:14	——
Podcasts	2021/06/01 09:23:14	——
Ringtones	2021/06/01 09:23:14	——

Fig 4-3-3 List display

Cloud Drive

By clicking , you can save resources to the cloud (Google Drive, One Drive), copy between the internal storage and USB devices, and sync resources with your PC cloud account.

Exit

Click to exit the file browsing, and return to the homepage.

SETTINGS

Click the button to open setting, as shown in Fig. 6-1. You can tap to click and select the setting option, including [Wireless & networks], [Device], and [Personal].

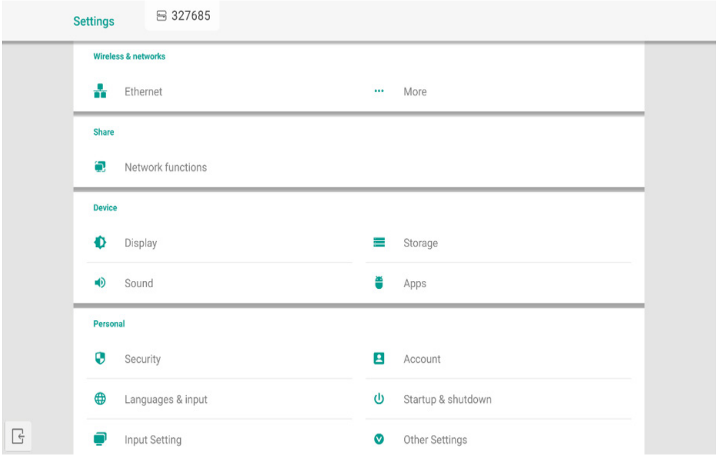


Fig 6-1 Setting menu

[Wireless & networks]

You can set whether to enable the network and Bluetooth, and view the network, including the MAC address, IP address, mask, and gateway.

* Wi-Fi Direct is not supported.

[Share]

It can be configured to use the Crestron feature.

[Device]

Display: setting wallpaper, and Pixel shift.

[Personal]

Supported features may differ by model.

- Security: All the CA certificates you have trusted, setting USB Lock, setting the security mode, Changing the Security Password
    - Once a security password is set, it must be entered to access secured items. (Default: 000000)
- Language & Input: Setting language and input method
- Input Setting: Setting labels for each external input
- Account: Add user accounts (emails) and set up data sync
- ON/OFF Settings: Set to ON, enter Standby Mode setting, set to Auto-Off, set to Auto-Off when no signal, DPM settings, Wake on LAN settings, Notification Display settings, Sleep Timer settings
- Other Setting: Slide toolbar and float bar settings, system docking channel settings, write settings, Control Code Select (LG protocol) settings

[System]

Setting Date & time, and About Device.

CHROMIUM

When the network is normally connected, click the button and enter the website to access the web page.

EMAIL

Once properly connected to the network, click to set up an e-mail.

LG ConnectedCare

Once successfully connected to the network, click the button to register an account and connect to the LG ConnectedCare server.

[KEEPER]

- Click to pop out the [Keeper] interface as shown in Fig. 8-1. You can perform memory optimization, garbage clean, and hardware checking on the intelligent tablet computer.

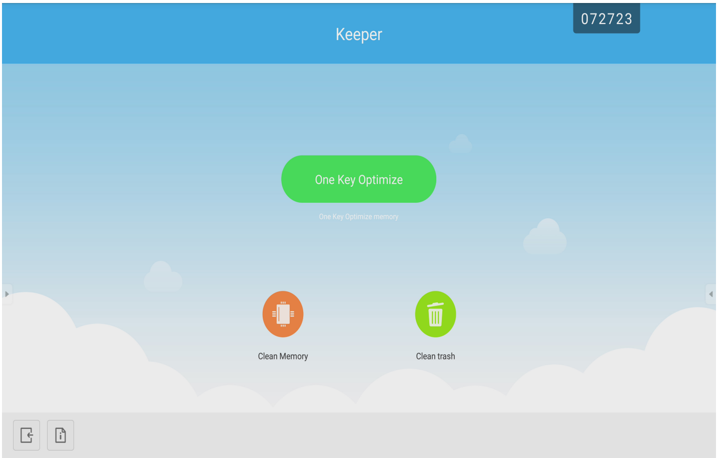
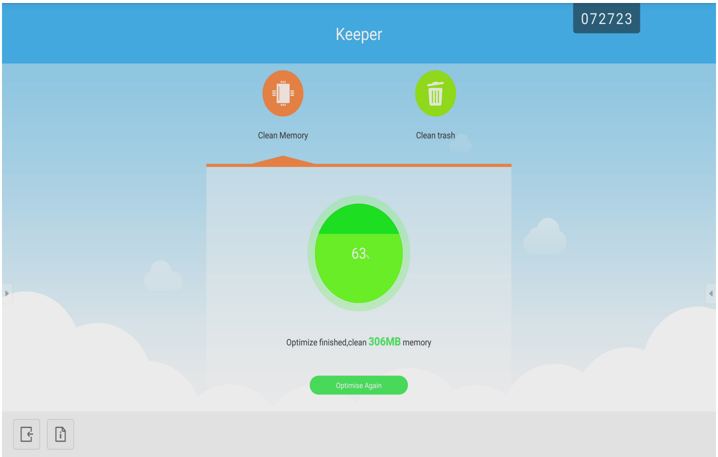


Fig 8-1 [Keeper]

- [One Key Optimize]: Click One Key Optimize to optimize memory, clean the disk garbage and check hardware problem in one key.
- [Memory Clean]: Click to optimize the memory.



Optimize finished,clean 306MB memory

Fig 8-2 [Memory Clean]

- [Garbage Clean]: Click 🗑 to clean the disk garbage.

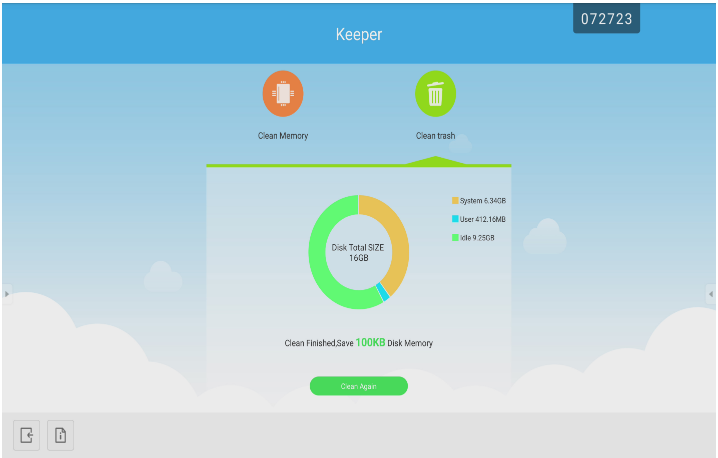


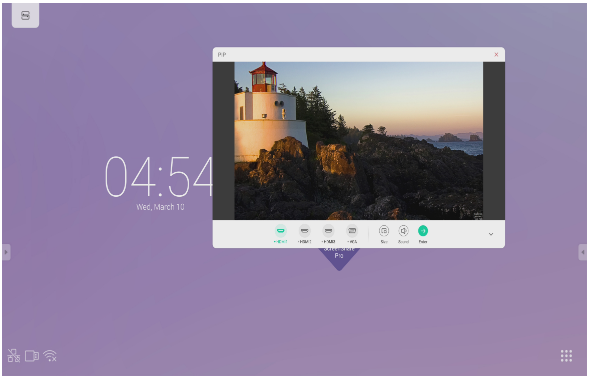
Fig 8-2 Garbage Clean

- Version information: Click ⓘ to view the system version information of the machine.
- Exit: Click ⇦ to exit the [Keeper] and return to the main interface.

[PIP]

Supported features may differ by model.

- Click the ▣ button to launch the PIP app. You can set the external input, screen size, etc. of the sub screen.
- Note: The image quality of the sub screen may deteriorate, depending on the resolution from the external input signal.



TOUCH MENU

Click the button, or Finger sliding upwards from the bottom of the screen to access the Touch Menu.

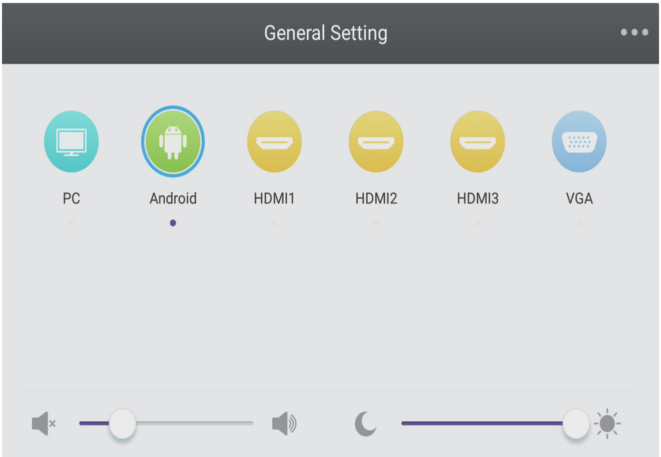


Fig 9-1 [General Setting]

- PC: Select the PC input.
- Android: Select the Android input.
- HDMI: Select the HDMI input.
- VGA: Select the VGA input.

* The switching of the signal input will take a few seconds.

CLOUD DRIVE

Click the button to connect to the Cloud Drive.

IDB

Supported features may differ by model.
You can use handwriting or other features using IDB by clicking .

SCREEN SHARE PRO MANUAL

Software Introduction

Screen Share Pro is a Wi-Fi-based software for multiple devices to simultaneously interact with IFP (short for “interactive flat panel”).

1. Once connected to Wi-Fi, users can transmit files (including audio, video and photos) from devices to IFP for demonstration.
2. Users can mirror IFP on their mobile devices, and control IFP via mobile devices.
3. With Screen Share Pro, IFP can reversely control Windows and Mac.
4. Users can cast screen on IFP via the camera on devices.

Installations

Operating Environment

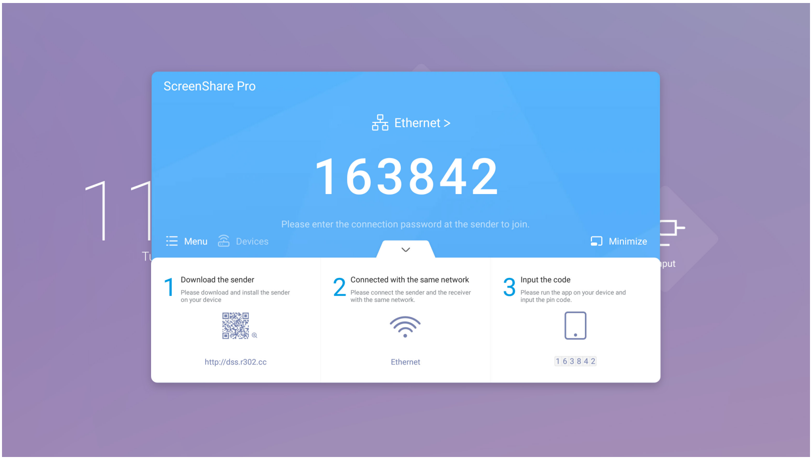
- Server (also called “receiver”)
  - Android 5.0 or later designed by the manual provider
- Client (also called “sender”)
  - Android 5.0 or later
  - iOS 8.0 or later
  - Windows 7/8/10
  - MacOS 10.10 or later
  - Chrome OS (only version 1.0.7 of SSP can work on Chrome OS)

Server Installation

Enable third-party app installation on Android; Choose Android Server portfolio, double click to install application.

Client Download & Installation

- After the software is installed, click the icon on the desktop. Enter the main interface.



Please enter the connection password at the sender to join.

Please download and install the sender on your device

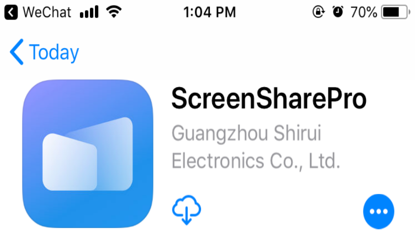
Please connect the sender and the receiver with the same network.

Please run the app on your device and input the pin code.

Picture 2-3-1 Server Main Interface

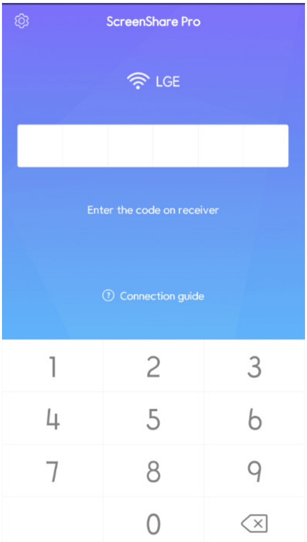
Install the software in Android, iOS, Windows, and MacOS clients as follows:

- Scan the QR code with mobile devices or enter the address in your PC web browser to download APK (application kit). It will automatically recognize different types of devices and thus provide the correct APK.
- In the case of iOS (iPhone OS) client, after scanning the QR code, it will lead to the app store, where you can download the app.



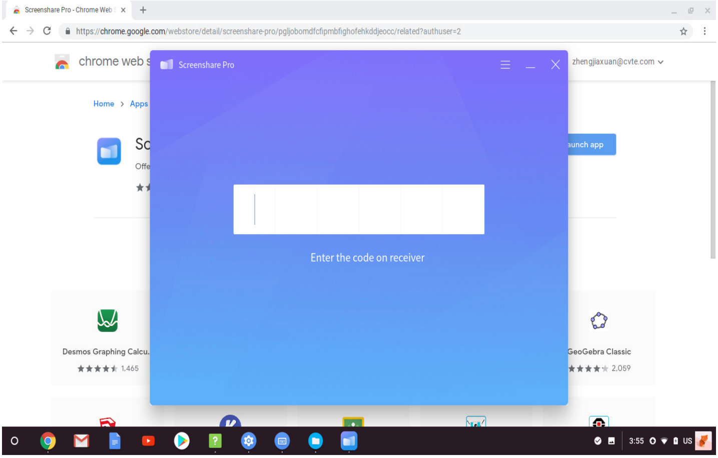
Picture 2-3-2 Client Download

- Install the app on your mobile devices. Enter the interface.



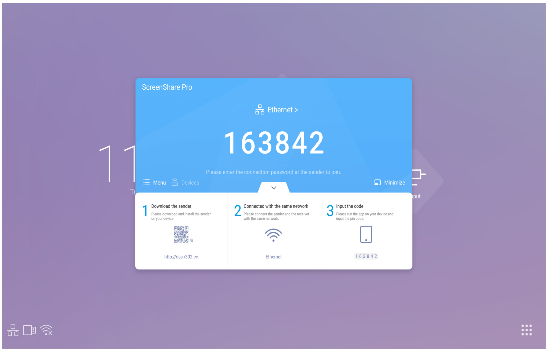
Picture2-3-3 Installation Completed

- Enter the code on receiver and start sharing screens.


Screenshare Pro - Chrome Web
https://chrome.google.com/webstore/detail/screenshare-pro/pgljobomdfcfipmbfighofehkddjeocc/related?authuser=2
chrome web s
zhengjiaxuan@cvte.com
Home
Apps
aunch app
Screenshare Pro
Enter the code on receiver
Desmos Graphing Calcu...
1,465
GeoGebra Classic
2,059
3:55
US

Server Introduction

After installing server application, follow the user guide to connect devices to IFP.



163842

Please enter the connection password at the sender to join.

1 Download the sender
Please download and install the sender on your device

2 Connected with the same network
Please connect the sender and the receiver with the same network.

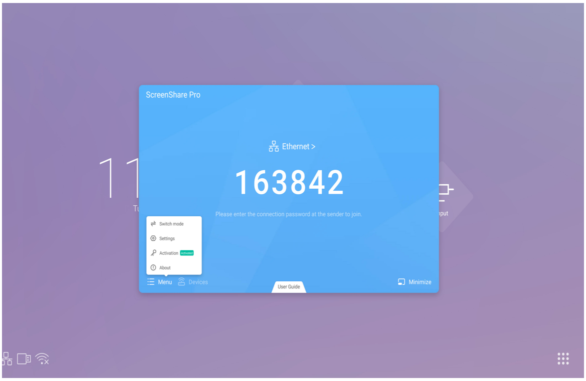
3 Input the code
Please run the app on your device and input the pin code.

Picture 3-1-1 Server Interface

1 Download client application either by scanning QR code or
2 Entering address in web browser.
3 Make sure client devices are connected to the same network as IFP.
4 Enter the same code on devices to connect with IFP.

Permission Mode

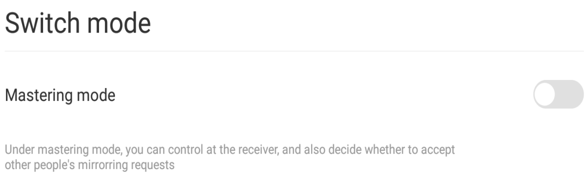
Click [Switch mode] in [Menu] column.



Please enter the connection password at the sender to join.

Picture 3-1-2 [Menu]

Switch mode by clicking the button. Please activate software before using switching to master mode.



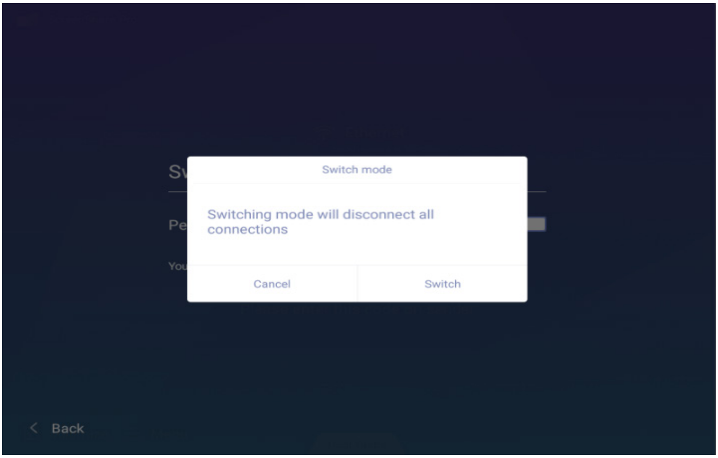
Switch mode

Mastering mode ○

Under mastering mode, you can control at the receiver, and also decide whether to accept other people's mirrorring requests

Picture 3-1-3 [Switch mode]

When choosing master mode, you will be reminded that all connected devices would be disconnected.



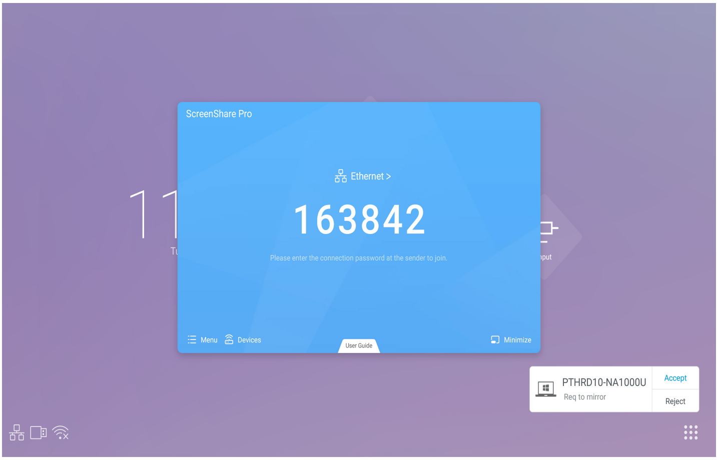
Switch mode

Switching mode will disconnect all connections

Picture 3-1-4 Switch Mode Reminder

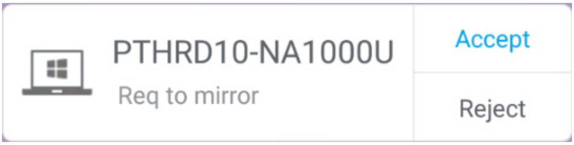
In master mode, all clients need to be accepted by IFP server before they could share screen. There are two admitting ways.

1 Requests could show in a pop-up window. Click [Accept] to approve or [Reject] to disapprove devices.



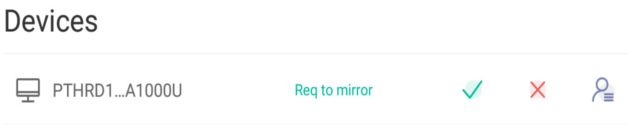
Please enter the connection password at the sender to join.

Picture 3-1-6 Request Pop-up Window



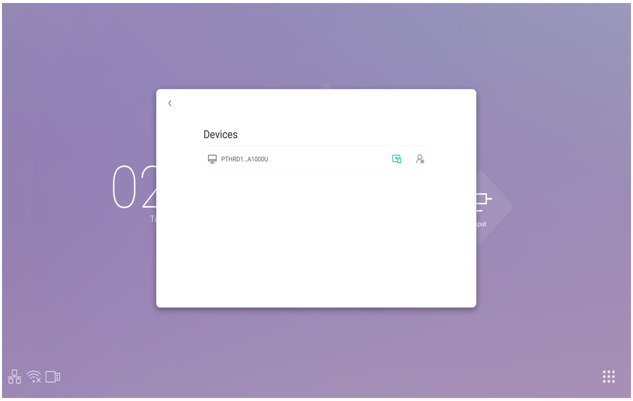
Picture 3-1-7 Click [Accept] or [Reject]

2 Click devices column to see requests. Choose ✓ to accept or ✗ to reject them.



Picture 3-1-8 Devices List

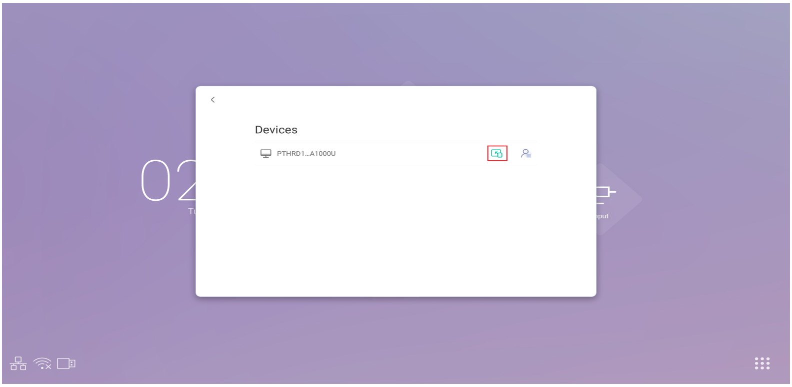
3 After accepted by server, client devices could start screen share by either operating on client devices or ⧉ clicking on IFP. Also, server could end screen share anytime.



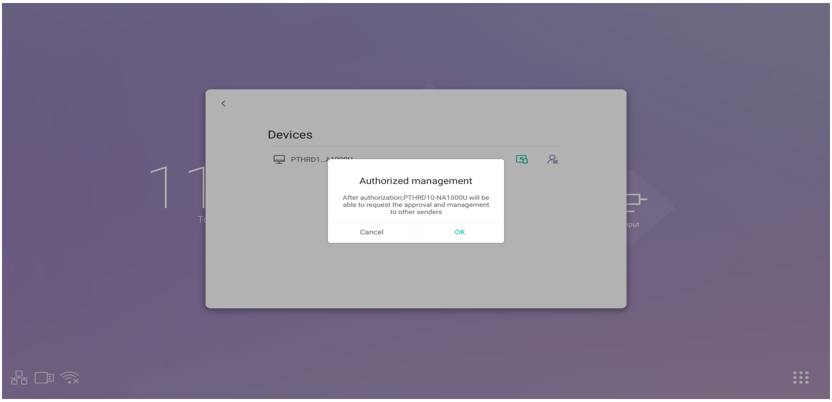
Picture 3-1-9 Devices Status

Screen Share from Server

All connected devices would be listed in column. Click to authorize devices to approve requests from others.



Picture 3-2-1 Authorize Devices

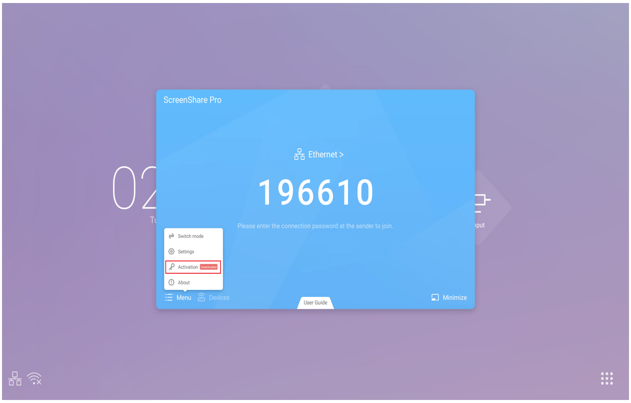


After authorization,PTHRD10-NA1000U will be able to request the approval and management to other senders

Picture 3-2-2 Authorize Devices Reminder

Server Activation

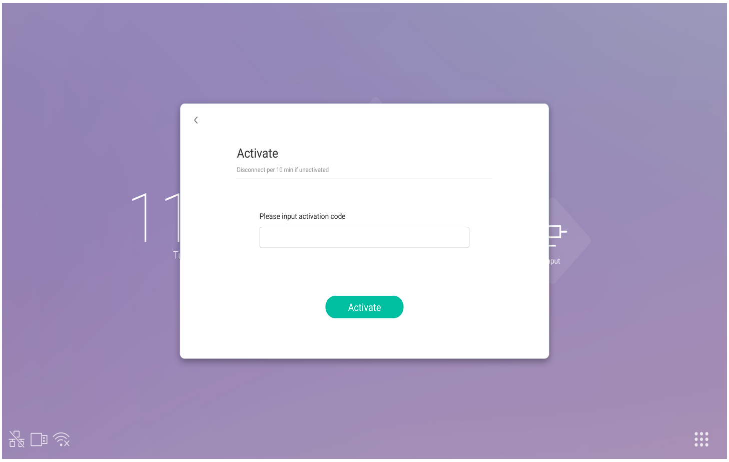
1 Click [Activation] in [Menu] column.



Please enter the connection password at the sender to join.

Picture 3-3-1 [Activation]

2 Enter activation interface, input code, then click [Activation].



Activate

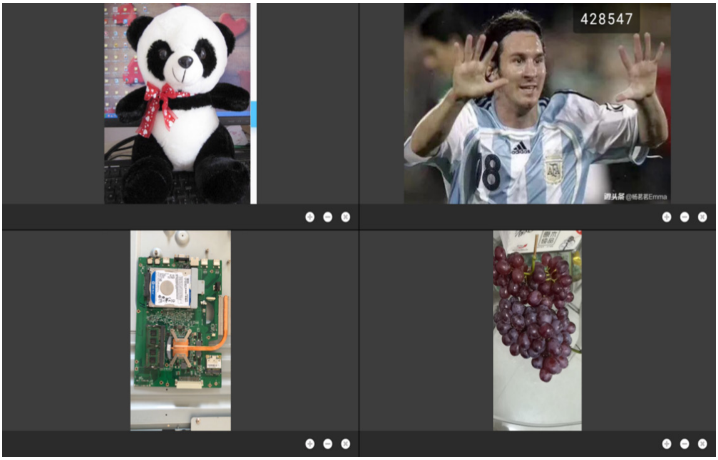
Disconnect per 10 min if unactivated

Please input activation code

Picture 3-3-2 Input Code

Screen Splits

Four devices could share screen at the same time.

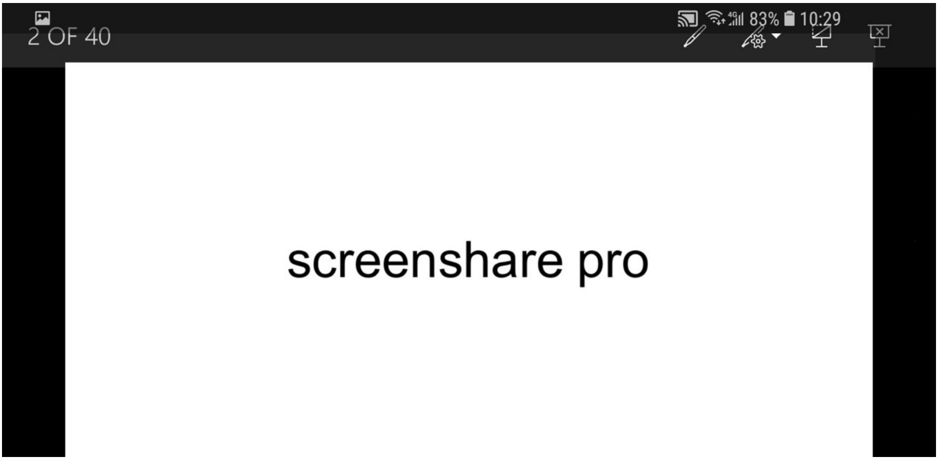


Picture 3-4-1 Screen Share Split

Click +/- to zoom in/out; click X to exit screen share.

Files Demonstration

Supports Power Point Slides, Keynote etc.



Picture 3-5-2 Playback, Annotations & Full Screen Mode

- Swipe from left to right to play last page, from right to left to access next page.
- Users can make annotations, play slides and exit full screen mode on their devices.

Client Introduction

Clients include mobile devices (Android & iOS), PC and Mac.

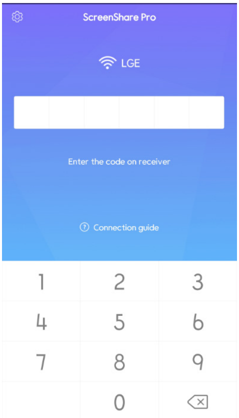
Mobile Device Operation

- Mobile devices include Android devices and iOS devices. App functions are similar for both, with micro difference in UI (user interface).
- These functions include media (audio & video) upload, photo upload, camera, remote and desktop. The following instructions are in the case of iOS mobile devices.

* Tips: The software only supports vertical screen.

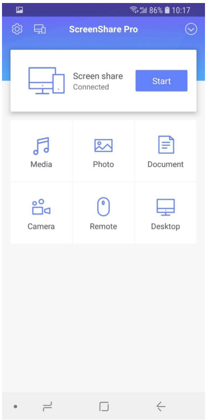
Start up

Click to enter the interface as follows.



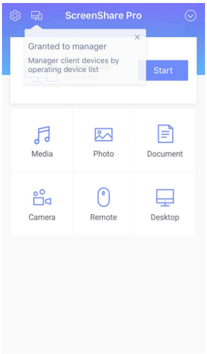
Picture 4-1-1-1 Connection Interface

Enter the code on IFP to connect devices and enter the interface as follows.



Picture 4-1-1-2 Main Interface

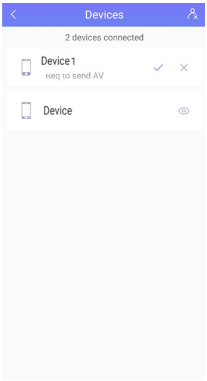
After authorized by server, there would be a new column in client interface, where the authorized device could see requests from other devices and to accept or reject requests.



Granted to manager

Manager client devices by operating device list

Picture 4-1-1-3 Interface after Authorized



2 devices connected

Device 1

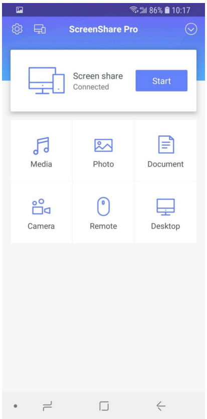
Req to send AV

Device

Picture 4-1-1-4 Click to Accept/Reject

Screen Share

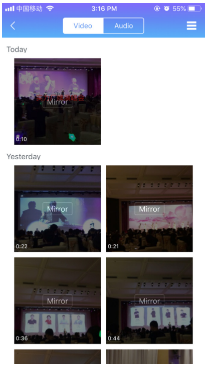
Click [Start] button to start screen mirroring.



Picture 4-1-2-1 Mobile Device Screen Share Interface

Audio/Video Upload

Click ♫ Media to upload audio/video.

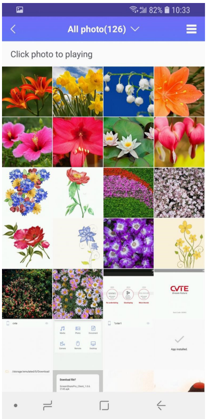


Picture 4-1-3-1 Audio/Video Upload

- Click the preview image of audio/video to play it on IFP.
- Click Audio to switch from defaulted video upload interface to audio one.
- Click ☰ to switch from defaulted preview image display to details display.

Photo Upload

Click Photo to upload photos.

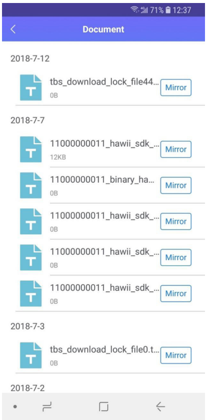


Picture 4-1-4-1 Photo Upload Interface

- Click the preview image of photo to play it on IFP.
- Click All Photos(519) to switch from defaulted camera photo preview to other albums.
- Click ☰ to switch from defaulted preview image display to details display.

Files Upload

Files Upload: Click Document to enter files upload mode.



2018-7-12

tbs_download_lock_file44... 0B Mirror

2018-7-7

11000000011_hawii_sdk_... 12KB Mirror

11000000011_binary_ha... 0B Mirror

11000000011_hawii_sdk_... 0B Mirror

11000000011_hawii_sdk_... 0B Mirror

11000000011_hawii_sdk_... 0B Mirror

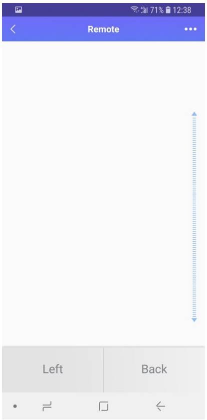
2018-7-3

tbs_download_lock_file0.t... 0B Mirror

2018-7-2

Picture 4-1-5-1 Files Upload Interface

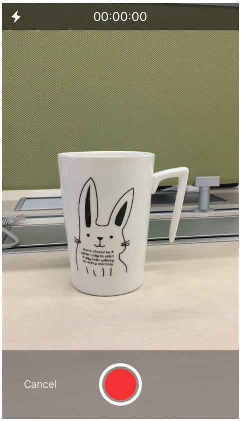
- Click Mirror to start mirroring files on IFP.
- Remote control. After accepted by server, client devices would enter remote mode automatically as follows. Instruction for this please see 4-1-7 Remote.



Picture 4-1-5-2 Remote Mode

Camera

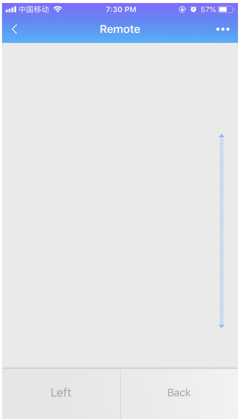
Click Camera to enter camera mode, click ● so that you can cast screen onto the IFP via the camera on your devices.



Picture 4-1-6-1 Camera Interface

Remote

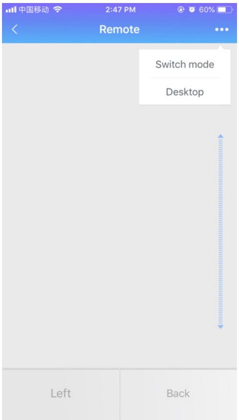
Click Remote to enter remote-touch mode interface.



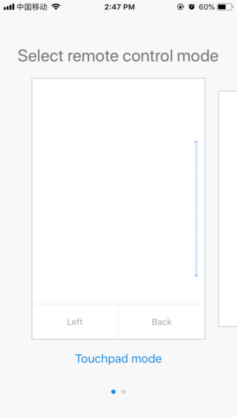
Picture 4-1-7-1 Remote-touch Mode Interface

- [Switch mode]: Remote includes touchpad mode and motion mode.

Click •••, choose [Switch mode], swipe to choose your desired mode.



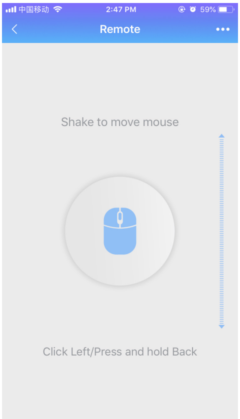
Picture 4-1-7-2 [Switch mode]



Picture 4-1-7-3 Swipe to Choose

- Touchpad mode: As is shown in picture 4-1-7-1, users can remotely control IFP by clicking on the touchpad. Two buttons are available.

Click [Left] to simulate the mouse left-click button; click [Back] to simulate the mouse right-click button. Move with one finger on touchpad and the mouse arrow on IFP will move simultaneously.

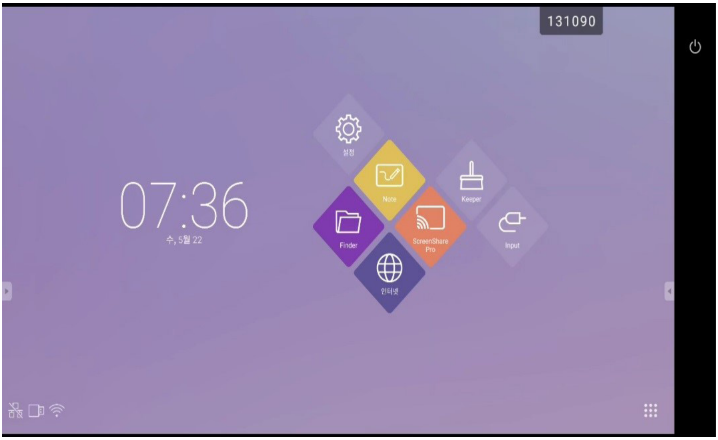


Picture 4-1-7-4 Motion Mode

- Motion mode: As shown in picture 4-1-7-4, tilt your devices to move the mouse. Click 🖱 to choose.
- Back to desktop: Click Desktop to exit remote mode and go back to desktop.

Desktop

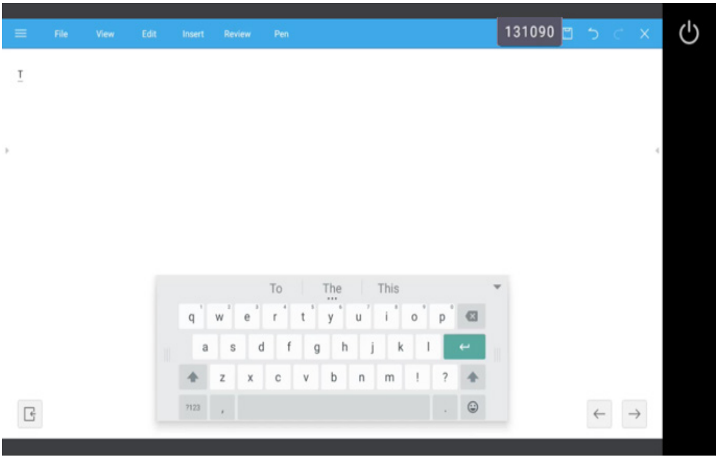
Click Desktop to enter desktop synchronization mode. In this mode, users can view IFP screen and remotely control IFP via mobile devices.



Picture 4-1-8-1 Desktop Synchronization Mode

Supported touchpad gestures are as follows:

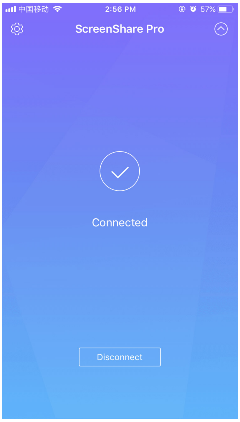
- One click to simulate mouse left-click button; long press to simulate mouse right-click button;
- Drag with one finger on the touchpad to move icons/windows;
- Place two fingers on the touchpad and pinch in to zoom out and stretch out to zoom in.
- Users could write on the mobile devices and send to IFP.



Picture 4-1-8-2 Desktop Synchronization

Disconnection

Click ⌄ to enter disconnection interface. Click Disconnect to disconnect client devices and go back to main interface.

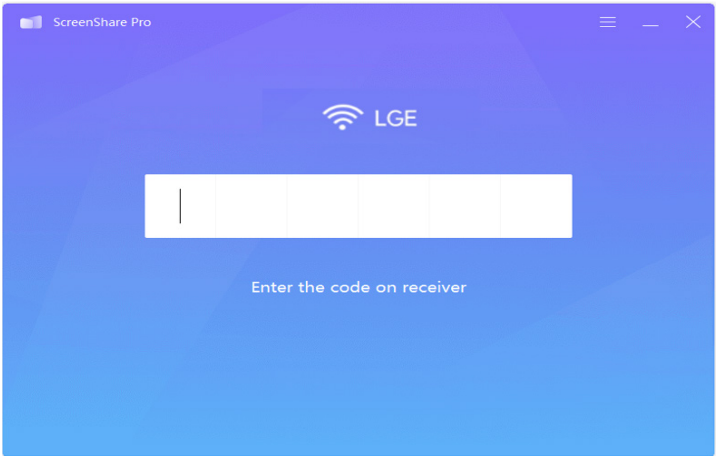


Picture 4-1-9-1 Disconnection

PC Device Operation

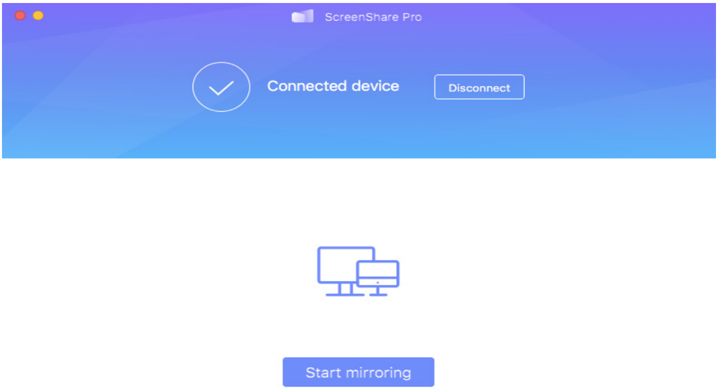
Windows, Chrome OS and MacOS have similar interface and operations. The followings are in the case of Mac.

1 Startup software in PC client device and enter the main interface.



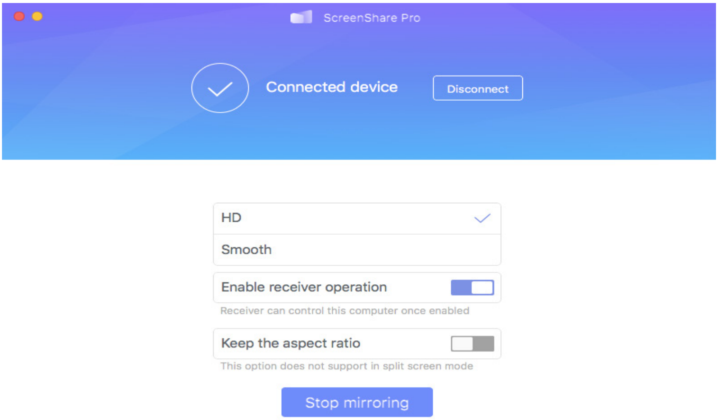
Picture 4-2-1 PC Client Device Interface

2 Enter code to connect with IFP. As is shown in picture 4-2-2, PC device is ready for mirroring.



Picture 4-2-2 PC Client Ready for Mirroring

3 Click Start mirroring to enter mirroring mode. Make adjustment if needed.



HD ✓

Smooth

Enable receiver operation ●

Receiver can control this computer once enabled

Keep the aspect ratio ○

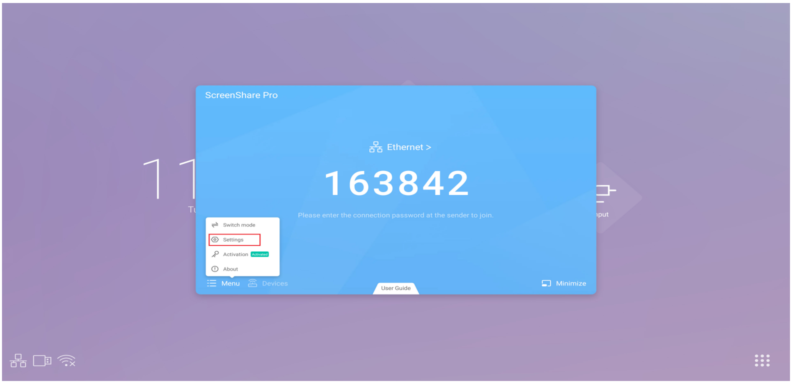
This option does not support in split screen mode

Picture 4-2-3 PC Client Device Mirroring Successfully

- Stop mirroring. Click Stop mirroring so that client devices will not mirror with IFP.
- Disconnect. Click Disconnect to disconnect client devices from server and go back to main interface.
- Adjust resolution. Click HD Smooth to switch between different mirroring resolution.
- Receiver operation. Click Enable receiver operation to enable server devices to remotely control client.
- Keep aspect ratio. Once enabled, only one client device could mirror with IFP in full-screen.

Advanced Connection Code

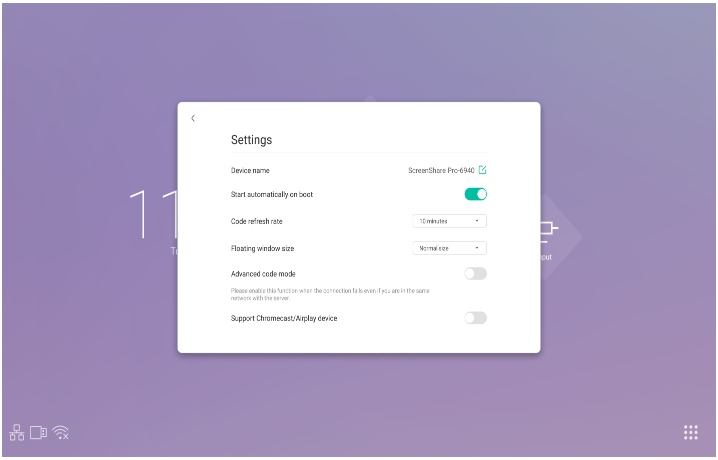
Apart from six pure digits, there is also a “digits+letters” connection code mode. Locate it in settings. Click to switch to advanced code mode.



163842

Please enter the connection password at the sender to join.

Picture 5-1-1 Menu-Settings



Device name ScreenShare Pro-6940

Start automatically on boot

Code refresh rate 10 minutes

Floating window size Normal size

Advanced code mode

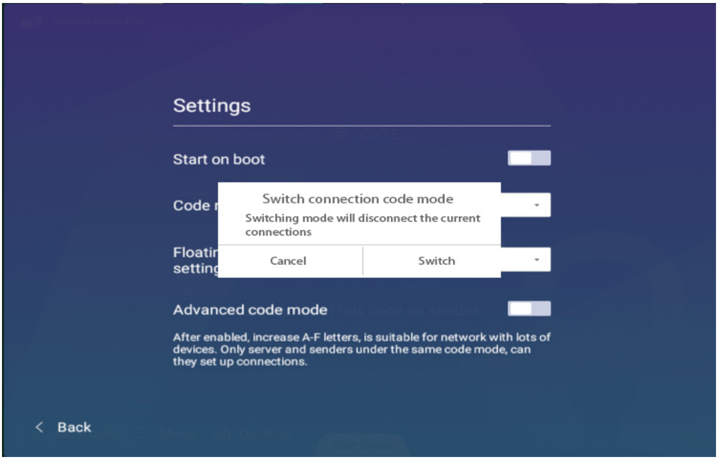
Please enable this function when the connection fails even if you are in the same network with the server.

Support Chromecast/Airplay device

Picture 5-1-2 Advanced Code Mode

- Support Chromecast/ Airplay/ Miracast device

Open this switch in settings, you can use any device support airplay or chromecast to find ScreenShare pro and mirror your screen to IFP without install software.



Settings

Start on boot

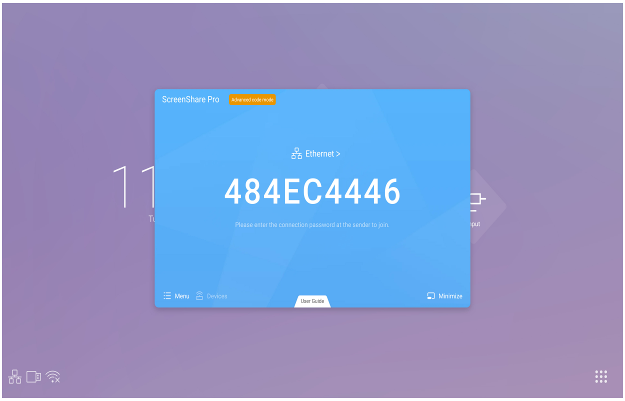
Switch connection code mode

Switching mode will disconnect the current connections

Advanced code mode

After enabled, increase A-F letters, is suitable for network with lots of devices. Only server and senders under the same code mode, can they set up connections.

Picture 5-1-3 Switch Connection Code Mode Reminder



484EC4446

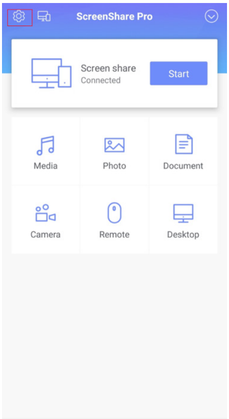
Please enter the connection password at the sender to join.

Picture 5-1-4 Advanced Code Mode-Server

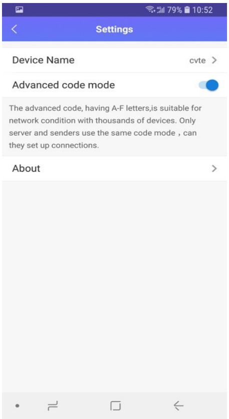
- To make sure of the operation of Screen Share Pro under different network situation, we have advanced connection code.

Adjust the settings on client devices, input new code after switching to advanced mode.

Step1



Step2

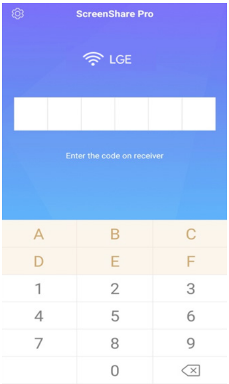


Device Name cvte

Advanced code mode

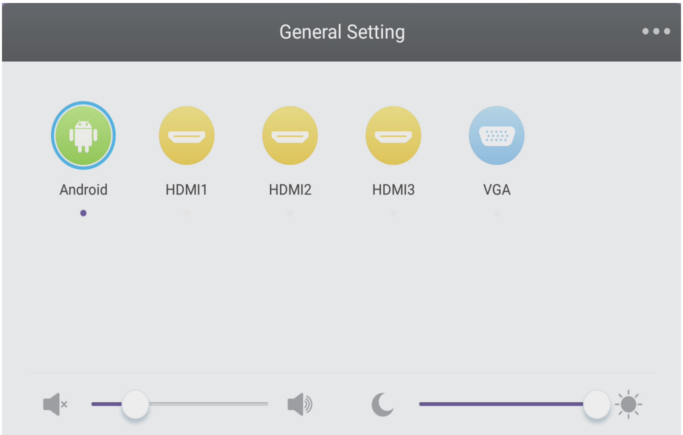
The advanced code, having A-F letters,is suitable for network condition with thousands of devices. Only server and senders use the same code mode，can they set up connections.

Step3



Setting Menu

[General Setting]

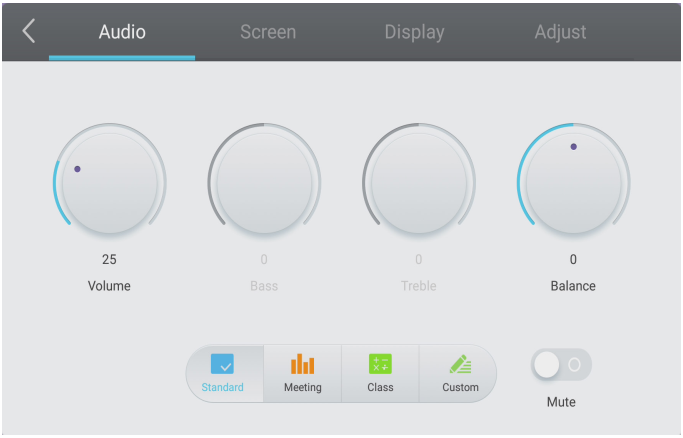


- Press **Input** button on remote control or via touch A method to call up [General Setting] menu.
- Press ▼ / ▲ / ◀ / ▶ button on remote control to select the channel you need.
- Press the **Enter** button on remote control or directly click with touch pen to confirm selected input channel.
- Press **Back** button on remote control or click blank area outside menu with touch pen to exit menu.
- Note: PC channel will only display when the equipment connects the built-in computer.

Detail Setting Menu

Press **Menu** on remote control or click the icon on [General Setting] menu with touch pen to call up detail setting menu. Detail setting menu includes [Audio], [Screen], [Display] and [Adjust].

[Audio]



25 Volume

0 Bass

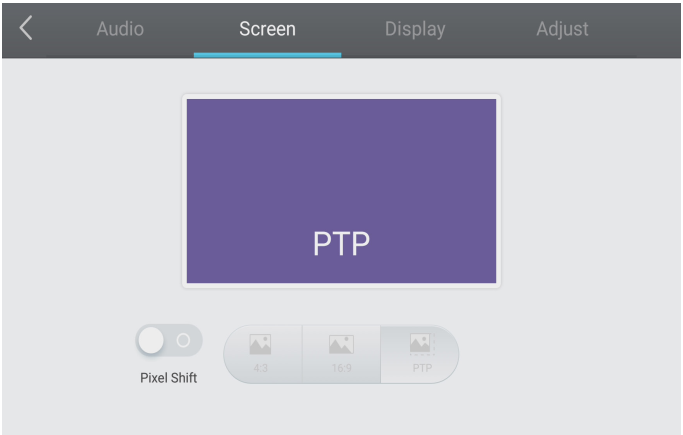
0 Treble

0 Balance

- Press ▶ button on remote control to select [Audio] setting menu.
- Press ▼/▲/◀/▶ button on remote control or directly click with touch pen to select the option.
- Press **Enter** on remote control to enter adjustment mode, and press ◀/▶ button or directly click with touch pen to adjust each option. Press **Enter**/**Back** to exit adjustment.
- Press 🔇 on remote control or directly click with touch pen to open or close mute state.
- Press **Back** on remote control or click blank area outside menu with touch pen to exit menu.

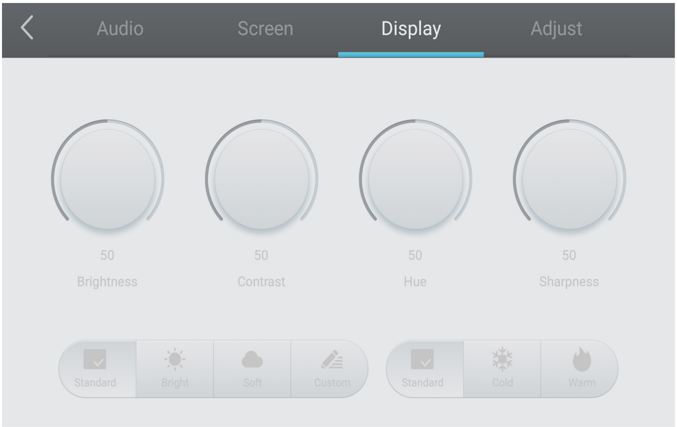
[Screen]

The available features may differ depending on model.



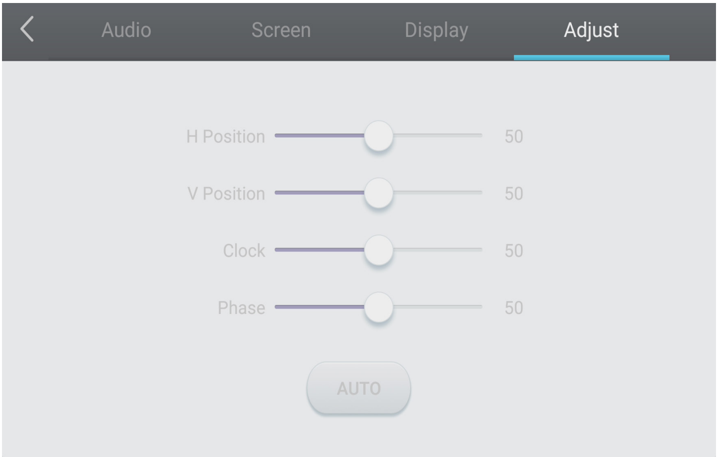
- Press ▶ button on remote control to select [Screen] setting menu.
- Press ▼/▲/◀/▶ on remote control or directly click with touch pen to select the option.
- Press **Enter** on remote control or directly click with touch pen to enter the selected mode.
- Press **Back** on remote control or click blank area outside menu with touch pen to exit menu.

[Display]



- Press ▶ button on remote control to select [Display] setting menu.
- Press ▼/▲/◀/▶ button on remote control or directly click with touch pen to select the option.
- Press **Enter** on remote control to enter adjustment mode, and press ◀/▶ button or directly click with touch pen to adjust each option. Press **Enter**/**Back** to exit adjustment.
- Press **Back** on remote control or click blank area outside menu with touch pen to exit menu.
- The display item is deactivated for the Android input.

[Adjust]



H Position 50

V Position 50

Clock 50

Phase 50

- Press ▶ button on remote control to select [Adjust] setting menu.
- Press ▼/▲/◀/▶ button on remote control or directly click with touch pen to select the option.
- Press **Enter** on remote control to enter adjustment mode, and press ◀/▶ button or directly click with touch pen to adjust each option. Press **Enter**/**Back** to exit adjustment. You can also click the [Auto] icon to adjust automatically.
- Press **Back** on remote control or click blank area outside menu with touch pen to exit menu.

MEDIA SPEC

Movie

File Extensions	Codec		
	Video	Audio	Maximum transmit ratio
.3g2	H.263	AAC, AMR_NB	Spec: Max Resolution: 1920 x 1088 30 Fps, 5 Mbps
.3gp .avi	H.264		Spec: Max Resolution: 3840 x 2160 30 Fps, 160 Mbps
	H.263		Spec: Max Resolution: 1920 x 1088 30 Fps, 5 Mbps
	Mpeg-4		Spec: Max Resolution: 1920 x 1088 30 Fps, 50 Mbps
	H.263	Mpeg1/2 Layer3, AAC,LPCM	Spec: Max Resolution: 1920 x 1088 30 Fps, 5 Mbps
	H.264		Spec: Max Resolution: 3840 x 2160 30 Fps, 160 Mbps
	Mpeg-1		Spec: Max Resolution: 1920 x 1088 30 Fps, 80 Mbps
	Mpeg-2		Spec: Max Resolution: 1920 x 1088 30 Fps, 80 Mbps
	Mpeg-4		Spec: Max Resolution: 1920 x 1088 30 Fps, 50 Mbps
	Mjpeg		Spec: Max Resolution: 1920 x 1080 30 Fps, 150 Mbps
.flv	H.263	Mpeg1/2 Layer3, AAC	Spec: Max Resolution: 1920 x 1088 30 Fps, 5 Mbps
	VP6		Spec: Max Resolution: 1920 x 1088 30 Fps, 40 Mbps
	H.264		Spec: Max Resolution: 3840 x 2160 30 Fps, 160 Mbps
.f4v	H.264	AAC	Spec: Max Resolution: 3840 x 2160 30 Fps, 160 Mbps
.mkv	H.264	AAC, Mpeg1/2 Layer3	Spec: Max Resolution: 3840 x 2160 30 Fps, 160 Mbps
	H.265		Spec: Max Resolution: 3840 x 2160 60 Fps, 160 Mbps
	Vc-1		Spec: Max Resolution: 1920 x 1088 30 Fps, 45 Mbps
.mov	H.264	AAC, PCM	Spec: Max Resolution: 3840 x 2160 30 Fps, 160 Mbps
	H.265		Spec: Max Resolution: 3840 x 2160 60 Fps, 160 Mbps
	MPEG-4		Spec: Max Resolution: 1920 x 1088 30 Fps, 50 Mbps
	MJPEG		Spec: Max Resolution: 1920 x 1080 30 Fps, 150 Mbps
.mp4	H.264	AAC	Spec: Max Resolution: 3840 x 2160 30 Fps, 160 Mbps
	H.265		Spec: Max Resolution: 3840 x 2160 60 Fps, 160 Mbps
	MPEG-4		Spec: Max Resolution: 1920 x 1088 30 Fps, 50 Mbps
.VOB	MPEG-2	Mpeg1/2 Layer3, PCM	Spec: Max Resolution: 1920 x 1088 30 Fps, 80 Mbps
.mpg/.mpeg	H.264	Mpeg1/2 Layer3, AAC	Spec: Max Resolution: 3840 x 2160 30 Fps, 160 Mbps
	MPEG-1		Spec: Max Resolution: 1920 x 1088 30 Fps, 80 Mbps
	MPEG-2		Spec: Max Resolution: 1920x1088 30 Fps, 80 Mbps

File Extensions	Codec		
	Video	Audio	Maximum transmit ratio
.ts	H.264	GAAC, Mpeg1/2 Layer3	Spec: Max Resolution: 3840 x 2160 30 Fps, 160 Mbps
	H.265		Spec: Max Resolution: 3840 x 2160 60 Fps, 160 Mbps
	MPEG-2		Spec: Max Resolution: 1920 x 1088 30 Fps, 80 Mbps
	MPEG-4		Spec: Max Resolution: 1920 x 1088 30 Fps, 50 Mbps
	VC-1(AP)		Spec: Max Resolution: 1920 x 1088 30 Fps, 45 Mbps
Licenses involved in specifications above are supposed to be obtained by customers.			

Audio			
File	**Format**	**Audio Codec**	**Supported range**
.aac	AAC	AAC	Sample Rate: 8K~96 KHz Bit Rate: 24K~576 Kbps
.ape	Monkey's Audio	Monkey's Audio	Sample Rate: Max 48 KHz Bit Rate: max 1411 Kbps
.flac	FLAC	FLAC	Sample Rate: Max 192 KHz Bit Rate: max 1411 Kbps
.m4a	ALAC	ALAC	Sample Rate: 8K~96 KHz Bit Rate: 24K~576 Kbps
.mp3	MPEG Audio Layer3	MPEG1/2 Layer3	Sample Rate: 8K~48 KHz Bit Rate: 32K~320 Kbps
.ogg	Vorbis	Vorbis	Sample Rate: 8K~48 KHz Bit Rate: max 256 Kbps
.wav	WAV	LPCM	Sample Rate: 8K~192 KHz Bit Rate: max320 Kbps
Licenses involved in specifications above are supposed to be obtained by customers.			

Photo

File	Format	Supported range	
.bmp	BMP	Max Resolution: 8000 × 8000 Min Resolution: 4 x 4	Spec: Max Resolution: 8000 × 8000 Preview Normal, Unable to play full screen
.gif	GIF	Max Resolution: 8000 × 8000 Min Resolution: 4 x 4	Max Resolution: 8000 × 8000 Preview Normal, Unable to play full screen
.jpeg/jpg	JPEG	Max Resolution: 8000 × 8000 Min Resolution: 4 x 4	Progressive support 4000 × 4000; baseline support 8000 x 8000
.png	PNG	Max Resolution: 8000 × 8000 Min Resolution: 4 x 4	

CONTROLLING MULTIPLE PRODUCTS

Command Reference List

		COMMAND	DATA
		1	(Hexadecimal)
01	Power	k	000 – 003
02	Treble	x	000 – 100
03	Bass	k	000 – 100
04	Balance	j	000 – 100
05	Contrast	d	000 – 100
06	Brightness	k	000 – 100
07	Sharpness	k	000 – 100
08	Sound Mode	k	000 – 004
09	Volume	k	000 – 100
10	Mute	k	000 – 001
11	Video Source	x	See Video Source
12	Aspect Ratio	f	000 – 002
13	Language	f	See Language
14	Picture Mode	f	000 – 003
15	Hue	j	000 – 100
16	Backlight	k	000 – 100
17	Color Temp	d	000 – 002
18	Remote Control	k	See Remote Control
19	IR	k	000 – 001

Transmission/Reception Protocol

Transmission

(Start)(Set ID)(Type)(Command)(Data)(Cr)

* (Start): This is a commend to start the RS-232C control and starts with 0 x 3A.

* (Set ID): This is to select the set to be controlled, and the Set ID is fixed to 01 (30 31).

* (Type): The command is to set the function or check the status of it. (Settings: 0 x 53/Check: 0 x 47)

* (Command): This command is to control the set.

* (Data): Transmits command data.

Acknowledgement

Set success (Success)
reply: 34 30 31 2B 0D

Set fail (Fail)
reply: 34 30 31 2D 0D

* ACK (acknowledgment) is sent in this format depending on the processing status of the command inputted to the product.

* When the Type value is sent as 0x47 to check the setting value of the function, the value of the Data should be sent as 000 (30 30 30).

01. Power (Command: 30)

Controls the power on/off status of the monitor.

Transmission

(3A)(30 31)(Type)(30)(Data)(0D)

Data	000(30 30 30): Backlight Off
	001(30 30 31): Backlight On
	002(30 30 32): Power Off
	003(30 30 33): Power On

02. Treble (Command: 31)

Adjust the sound treble.

Transmission

(3A)(30 31)(Type)(31)(Data)(0D)

Data 000(30 30 30) ~ 100(31 30 30)

03. Bass (Command: 32)

Adjust the sound bass.

Transmission

(3A)(30 31)(Type)(32)(Data)(0D)

Data 000(30 30 30) ~ 100(31 30 30)

04. Balance (Command: 33)

Adjust the sound balance.

Transmission

(3A)(30 31)(Type)(33)(Data)(0D)

Data 000(30 30 30) ~ 100(31 30 30)

05. Contrast (Command: 34)

Adjust the screen contrast.

Transmission

(3A)(30 31)(Type)(34)(Data)(0D)

Data 000(30 30 30) ~ 100(31 30 30)

06. Brightness (Command: 35)

Adjust the screen brightness.

Transmission

(3A)(30 31)(Type)(35)(Data)(0D)

Data 000(30 30 30) ~ 100(31 30 30)

07. Sharpness (Command: 36)

Adjust the screen sharpness.

Transmission

(3A)(30 31)(Type)(36)(Data)(0D)

Data 000(30 30 30) ~ 100(31 30 30)

08. Sound mode (Command: 37)

Select sound mode.

Transmission

(3A)(30 31)(Type)(37)(Data)(0D)

Data	000 (30 30 30): Movie
	001 (30 30 31): Standard
	002 (30 30 32): Custom
	003 (30 30 33): Classroom
	004 (30 30 34): Meeting

09. Volume (Command: 38)

Adjust the volume.

Transmission

(3A)(30 31)(Type)(38)(Data)(0D)

Data 000(30 30 30) ~ 100(31 30 30)

10. Mute (Command: 39)

Mutes/Unmutes audio.

Transmission

(3A)(30 31)(Type)(39)(Data)(0D)

Data	000 (30 30 30): Off
	001 (30 30 31): On

11. Video Source (Command: 3A)

Select a video source.

Transmission
(3A)(30 31)(Type)(3A)(Data)(0D)

Data 000 (30 30 30): VGA
001 (30 30 31): HDMI1
002 (30 30 32): HDMI2
021 (30 32 31): HDMI3
101 (31 30 31): Android
103 (31 30 33): Slot PC

12. Aspect Ratio (Command: 3B)

Adjust the aspect ratio.

Transmission
(3A)(30 31)(Type)(3B)(Data)(0D)

Data 000 (30 30 30): 16:9
001 (30 30 31): 4:3
002 (30 30 32): PTP

13. Language (Command: 3C)

Select the OSD language.

Transmission
(3A)(30 31)(Type)(3C)(Data)(0D)

Data 000 (30 30 30): English
001 (30 30 31): French
002 (30 30 32): Spanish
003 (30 30 33): Chinese (Mandarin)
004 (30 30 34): Chinese (Cantonese)
005 (30 30 35): Portuguese
006 (30 30 36): German
007 (30 30 37): Dutch
008 (30 30 38): Polish
009 (30 30 39): Russian
010 (30 31 30): Czech
011 (30 31 31): Danish
012 (30 31 32): Swedish
013 (30 31 33): Italian
014 (30 31 34): Romanian
015 (30 31 35): Norwegian
016 (30 31 36): Finnish
017 (30 31 37): Greek
018 (30 31 38): Turkish
019 (30 31 39): Arabic
020 (30 32 30): Japanese
021 (30 32 31): Ukraine

14. Picture Mode (Command: 3D)

Select a picture mode.

Transmission
(3A)(30 31)(Type)(3D)(Data)(0D)

Data 000 (30 30 30): standard
001 (30 30 31): bright
002 (30 30 32): soft
003 (30 30 33): customer

15. Hue (Command: 3E)

Adjust the screen hue.

Transmission
(3A)(30 31)(Type)(3E)(Data)(0D)

Data 000(30 30 30) ~ 100(31 30 30)

16. Backlight (Command: 3F)

Adjust the backlight.

Transmission
(3A)(30 31)(Type)(3F)(Data)(0D)

Data 000(30 30 30) ~ 100(31 30 30)

17. Color Temp (Command: 40)

Adjust the aspect ratio.

Transmission
(3A)(30 31)(Type)(40)(Data)(0D)

Data 000 (30 30 30): Cool
001 (30 30 31): Standard
002 (30 30 32): Warm

18. Remote control command (Command: 41)

Send a key code for the IR remote control.

Transmission

(3A)(30 31)(Type)(41)(Data)(0D)

Data 000 (30 30 30): Vol+
001 (30 30 31): Vol-
010 (30 31 30): Up
011 (30 31 31): Down
012 (30 31 32): Left
013 (30 31 33): Right
014 (30 31 34): OK
020 (30 32 30): Menu
021 (30 32 31): Input Source
022 (30 32 32): Exit
031 (30 33 31): Blank
032 (30 31 32): Freeze

19. IR (Command: 42)

Adjust the remote control (IR).

Transmission

(3A)(30 31)(Type)(42)(Data)(0D)

Data 000 (30 30 30): Enable
001 (30 30 31): Disable

LG

Life's Good