newline

All-in-One Direct View LED Display

User Manual

Newline DV Go 135"

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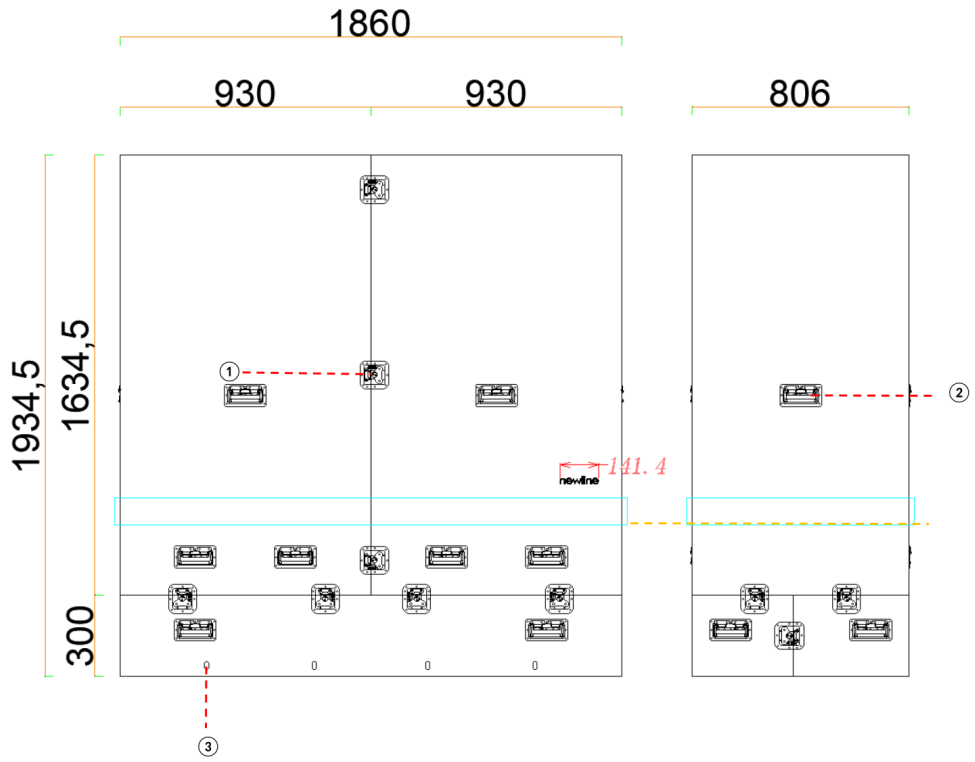
1 Product overview

1.1 Transport case

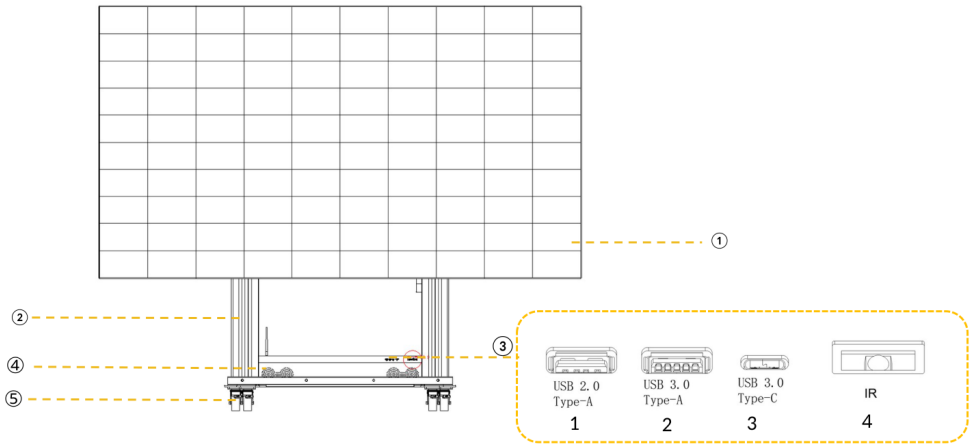
The front and side views show the case dimensions and the fittings used to handle, close and secure the case to the base of the DV Go 135".



Part	Function
Handle	Grip for carrying or moving the case.
Latch	Secures or releases the cover.
Mounting hole	Aligns with the fixing holes in the base of the display.

2 Display components

2.1 Front view and front controls



No.	Component	Function
1	LED module	High-brightness, high-contrast display module with service access.
2	Support frame	Supports the display and guides its vertical movement.
3	Front controls	USB connections and infrared receiver. See the numbered inset.
4	Speaker	Plays audio in sync with the video.
5	Adjustable caster	Supports positioning and braking.

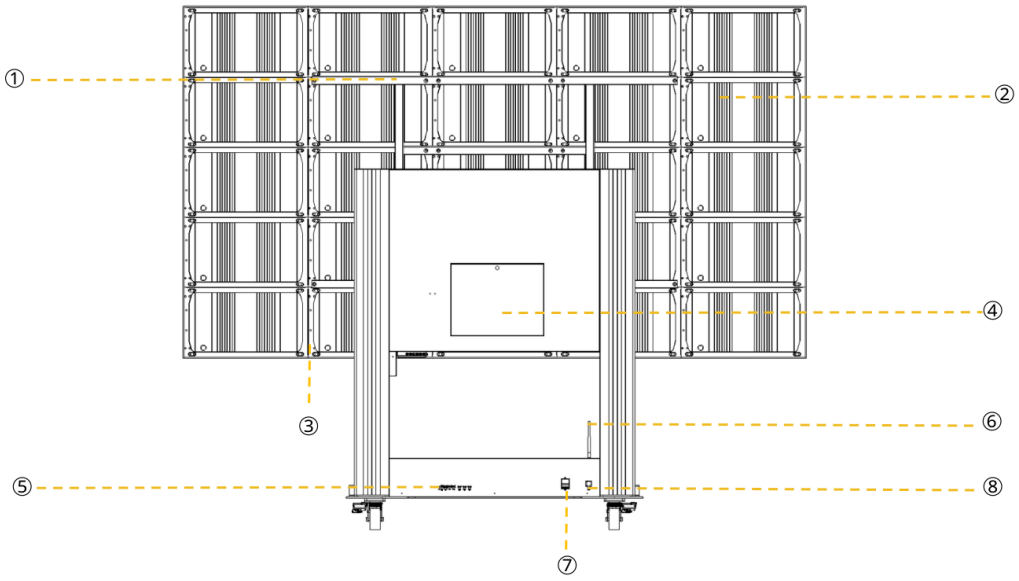
Front panel inset

1. USB 2.0 Type-A 2. USB 3.0 Type-A 3. USB 3.0 Type-C 4. Infrared receiver

The USB ports accept devices such as a mouse, keyboard or flash drive. Supported image formats are JPG, BMP and PNG. Video formats are AVI, MPG, VOB, MOV, MKV, RMVB, MP4, TS and FLV. Use FAT32 or NTFS storage. FAT16 and exFAT are unsupported. The infrared receiver accepts remote and central control signals.

2 Display components

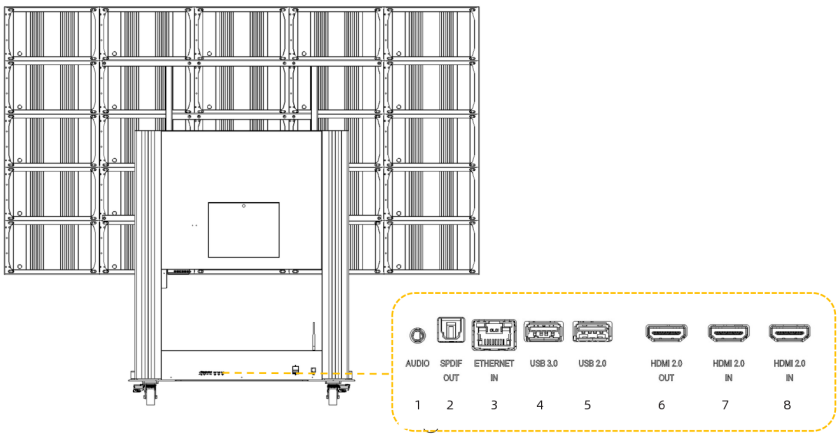
2.2 Rear view



No.	Component	Function
1	Rear frame	Supports the display and keeps adjacent cabinets aligned.
2	Cabinet	Houses the display components.
3	Folding mechanism	Allows the outer cabinets to fold manually.
4	Storage box	Stores accessories.
5	Media ports	Connect external audio, video and network equipment.
6	Wi-Fi antenna	Transmits and receives wireless signals.
7	Power switch	Switches the main power on or off.
8	Power socket	Connects the external power supply.

3 Multimedia interfaces

3.1 Rear connections



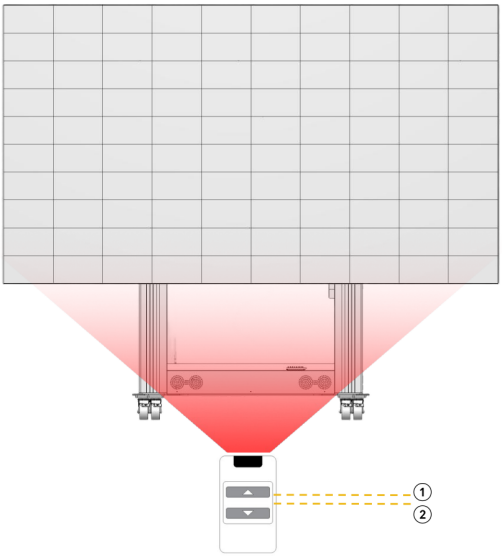
No.	Port	Function
1	AUDIO	3.5 mm external audio connection for three-pole plugs.
2	SPDIF OUT	Optical digital audio output.
3	ETHERNET IN	Gigabit Ethernet connection, up to 1 Gbps.
4 / 5	USB Type-A	USB 3.0 and USB 2.0 ports for peripherals or flash drives. See page 4 for supported media and file systems.
6	HDMI 2.0 OUT	Monitor output for diagnostics, up to 3840 x 2160 at 60 Hz.
7 / 8	HDMI 2.0 IN	Two rear HDMI inputs. The Windows OPS host provides the third selectable input.

HDMI input signals

Source identifiers are 1 for Windows (OPS), 5 for HDMI 1 and 6 for HDMI 2. Standard resolutions range from 800 x 600 at 60 Hz to 4096 x 2160 at 60 Hz. Supported formats include 8-bit and 10-bit RGB, YCbCr 4:2:2 and YCbCr 4:4:4. Use progressive video. HDCP 1.4 and 2.3 are supported.

4 Lifting and folding

4.1 Height adjustment



Before moving the display

Keep people and obstacles clear of the entire travel area. Never stand or reach beneath the display or into the lifting mechanism.

Raise or lower the display

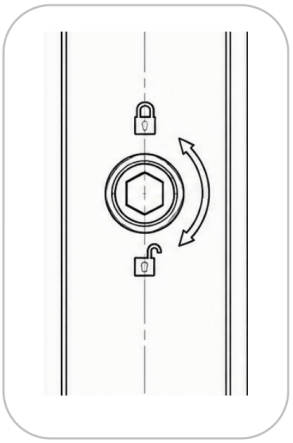
Press and hold the up button on the panel to raise the display. The lift stops automatically when the bottom edge reaches approximately 900 mm. Release the button.

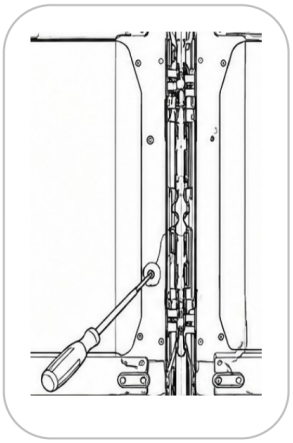
Press and hold the down button to lower the display. The lift stops automatically when the bottom edge reaches approximately 400 mm. Release the button.

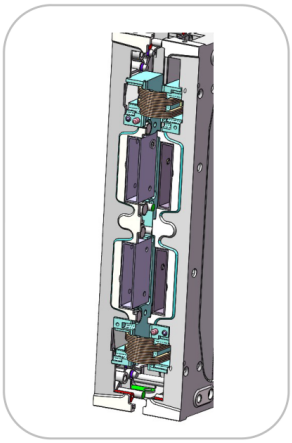
Release the button immediately if the lift jams, makes an unusual noise or malfunctions. Wait until the display has stopped at the required height before folding or unfolding it.

4 Lifting and folding

4.2 Folding mechanism







Check the rear locks

An eccentric hook joins adjacent cabinets. Use a 5 mm hex key at the rear operating hole. Confirm the release and clamp positions on the actual mechanism before moving either outer cabinet. If the markings and hook movement disagree, stop and confirm the direction with technical support.

Unfold the outer cabinets

Left side. Locate the joint between columns 1 and 2. Operate the lock on cabinet 1. Once the hook has fully released the adjacent cabinet, manually unfold column 1 outward.

Right side. Locate the joint between columns 4 and 5. Operate the left-hand lock on cabinet 5. Once the hook has fully released the adjacent cabinet, manually unfold column 5 outward.

When the display is unfolded, verify that the hooks clamp the adjacent cabinets securely.

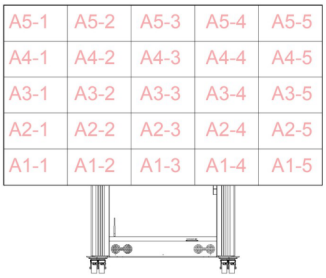
5 Cabinet and module layout

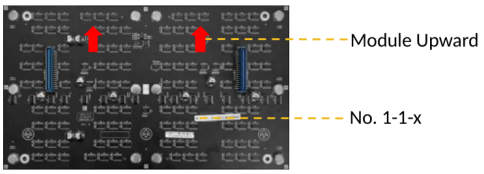
Match the module number to its cabinet before installation. Cabinet A1-1 takes modules labelled A1-1-X, for example A1-1-1. Route and secure the cables in the cabinet clips before fitting each module.

A5-1-3	A5-1-4	A5-2-3	A5-2-4	A5-3-3	A5-3-4	A5-4-3	A5-4-4	A5-5-3	A5-5-4
A5-1		A5-2		A5-3		A5-4		A5-5	
A5-1-1	A5-1-2	A5-2-1	A5-2-2	A5-3-1	A5-3-2	A5-4-1	A5-4-2	A5-5-1	A5-5-2
A4-1-3	A4-1-4	A4-2-3	A4-2-4	A4-3-3	A4-3-4	A4-4-3	A4-4-4	A4-5-3	A4-5-4
A4-1		A4-2		A4-3		A4-4		A4-5	
A4-1-1	A4-1-2	A4-2-1	A4-2-2	A4-3-1	A4-3-2	A4-4-1	A4-4-2	A4-5-1	A4-5-2
A3-1-3	A3-1-4	A3-2-3	A3-2-4	A3-3-3	A3-3-4	A3-4-3	A3-4-4	A3-5-3	A3-5-4
A3-1		A3-2		A3-3		A3-4		A3-5	
A3-1-1	A3-1-2	A3-2-1	A3-2-2	A3-3-1	A3-3-2	A3-4-1	A3-4-2	A3-5-1	A3-5-2
A2-1-3	A2-1-4	A2-2-3	A2-2-4	A2-3-3	A2-3-4	A2-4-3	A2-4-4	A2-5-3	A2-5-4
A2-1		A2-2		A2-3		A2-4		A2-5	
A2-1-1	A2-1-2	A2-2-1	A2-2-2	A2-3-1	A2-3-2	A2-4-1	A2-4-2	A2-5-1	A2-5-2
A1-1-3	A1-1-4	A1-2-3	A1-2-4	A1-3-3	A1-3-4	A1-4-3	A1-4-4	A1-5-3	A1-5-4
A1-1		A1-2		A1-3		A1-4		A1-5	
A1-1-1	A1-1-2	A1-2-1	A1-2-2	A1-3-1	A1-3-2	A1-4-1	A1-4-2	A1-5-1	A1-5-2

Install in numbered order

Align the module with the positioning pins and seat it evenly. The arrow on the module must point upward to match the factory layout. Work from bottom to top, then from left to right.





Check that the finished surface is flat and that the gaps between adjacent modules are small and uniform.

6 Controls and screen mirroring

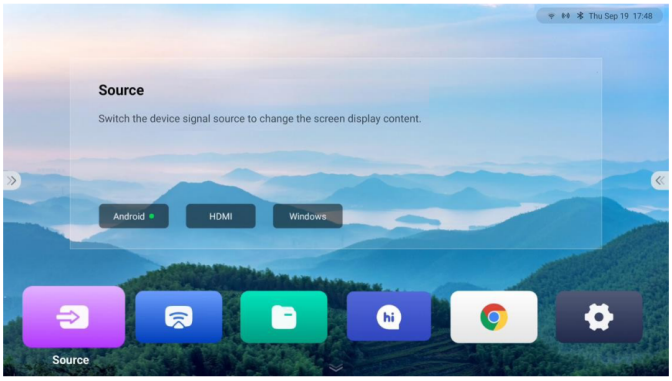
6.1 Pair the remote control



Aim the remote control at the infrared receiver on the front of the display. Press and hold Home and Menu together until the message "Remote is pairing" appears.

6 Controls and screen mirroring

6.2 Select a signal source



On the home screen, select the input source icon or press Menu on the remote. Select the required source and press OK.

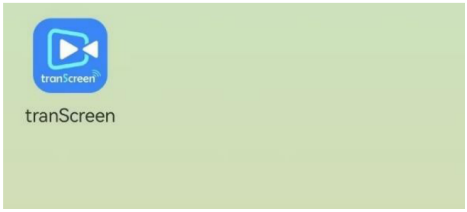
6.3 Mirror a device

6.3.1 Android

1. Scan the QR code in Quick Cast on the display home screen. Download and install tranScreen on the phone.

2. Connect the phone to the display hotspot. The default network name begins with MEE210_ and the default password is SN2008@+.

3. Open tranScreen and select the matching device name. Choose Mirror Cast, then Start Now.

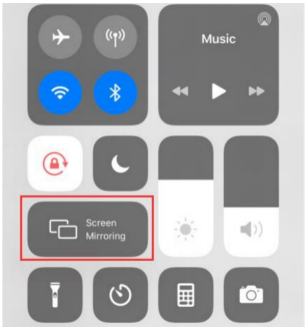


6 Controls and screen mirroring

6.3.2 iOS and Windows

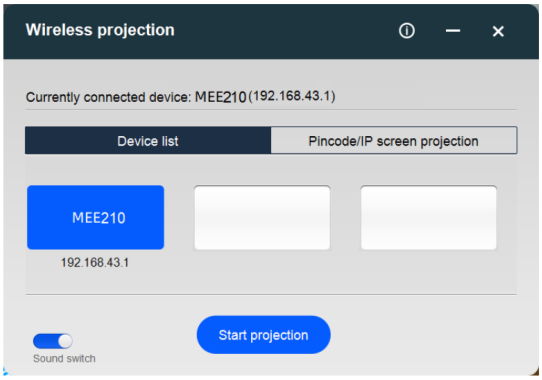
iPhone or iPad

Connect to the MEE210_ hotspot shown on the display. The default password is SN2008@+. Open Control Center, tap Screen Mirroring and select the matching MEE210 device.



Windows PC

Open meexus.cn in a browser and download the Windows client. Connect the PC to the display hotspot using the same credentials. Launch the client, select the detected display and click Start Screen Mirroring.



6 Controls and screen mirroring

6.3.3 macOS and USB dongle

macOS

Connect the Mac to the MEE210_ hotspot shown on the display. The default password is SN2008@+. Open Screen Mirroring in the upper-right corner and select the display name.



Pair the USB dongle

For first use, plug the dongle into the USB port on the display controller to pair it. Repeat pairing after changing the device name, hotspot name or hotspot password.

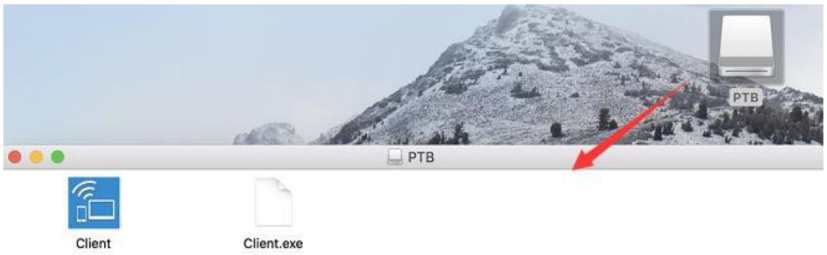
Plug the paired dongle into the USB port on the computer. Follow the connection steps on the next page.



6 Controls and screen mirroring

Start mirroring with the dongle

If prompted, open the USB drive named PTB on the computer, run Client and follow the authorization prompts. When "Connected successfully" appears, press the round button on the dongle to start mirroring.



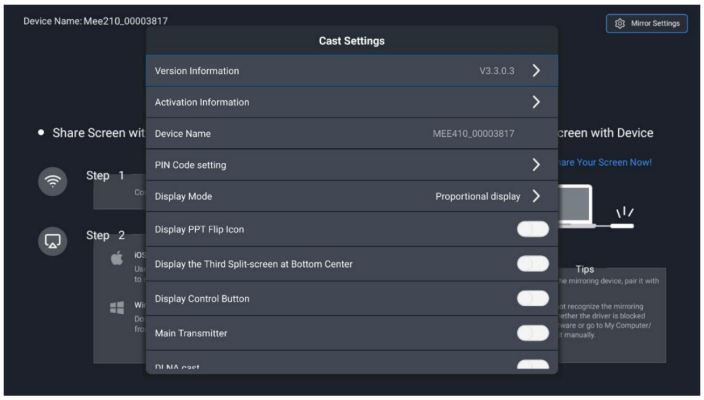
6.4 Screen mirroring settings

On the home screen, select the screen mirroring icon. Press OK on the remote to open the settings. The available options are listed on the next page.



6 Controls and screen mirroring

6.4 Screen mirroring settings

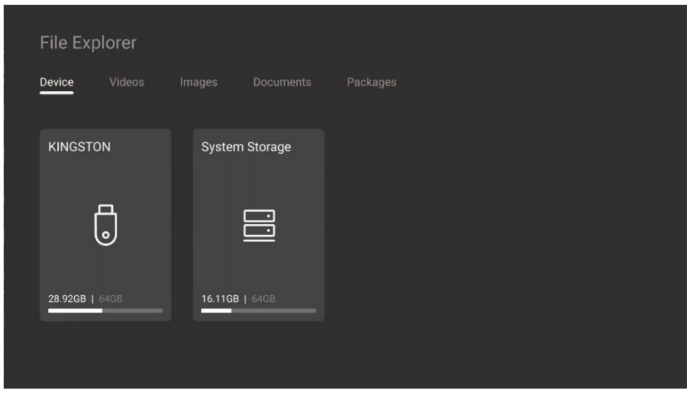


Setting	Available action
Version / activation info	View the dongle version, activation status and code, MAC address and number of split screens.
Device Name	View the receiver name.
Screen Mirroring Code	Enable and set the mirroring code.
Display Mode	Choose proportional, full-screen or adaptive display.
On-screen controls	Show or hide the PPT page-turn icon, the bottom-centre indicator on the third screen and the main control sphere.
Main Control Dongle	Enable or disable the main control dongle.
DLNA Screen Mirroring	Enable or disable DLNA mirroring.
Split Screen Display Mode	Choose 1, 2, 4, 6 or 9 screens. Dongle activation enables up to nine.
Activation Upgrade	Enter the activation code in the dialog and press OK.
Screen Mirroring Timeout	Choose 15, 30, 45 or 60 seconds.

6 Controls and screen mirroring

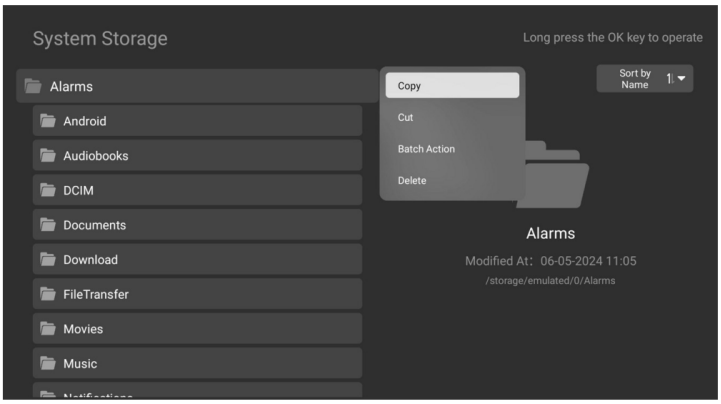
6.5 Manage files by location

Open the file manager from the home screen. In Devices, choose the inserted USB drive or system storage to browse by folder.



Copy a folder

Select the folder, for example Alarms, and hold Confirm on the remote until the menu appears. Select Copy and navigate to the destination. Select Paste on the right and wait for the copy to finish, or select Cancel.

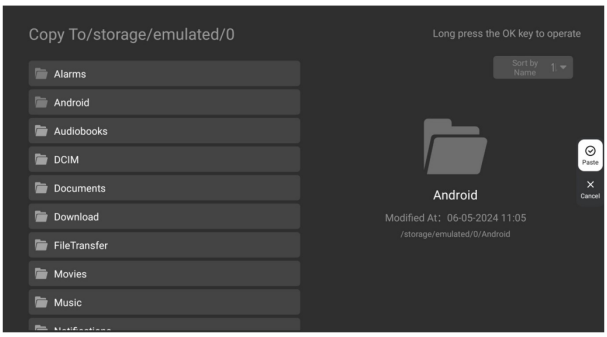


6 Controls and screen mirroring

6.5 Manage files by location

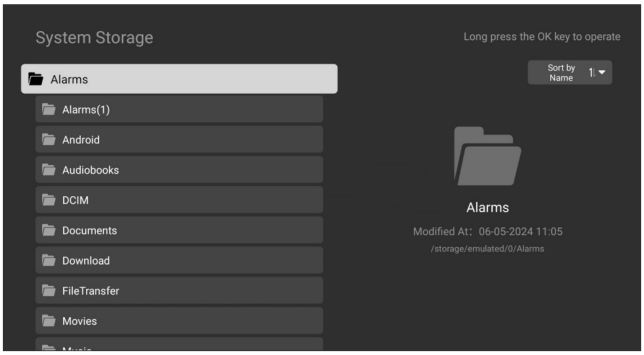
Move or delete a folder

To move a folder, select Cut, navigate to the destination and select Paste. To delete a folder, open its menu, use Down to highlight Delete and press Confirm.



Copy or move multiple folders

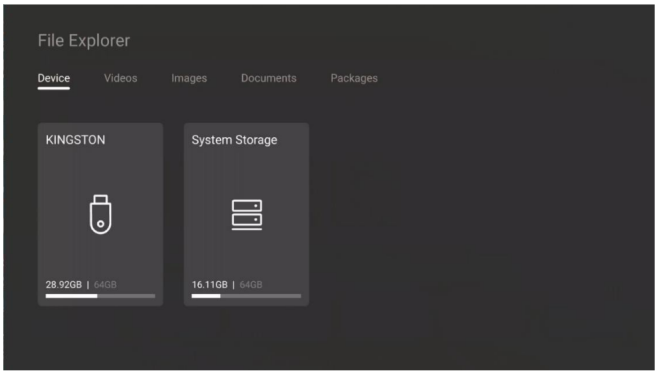
Choose Batch Action and press Confirm. Mark the folders, then select Copy or Cut on the right. Open the destination and select Paste. Select Cancel to stop before pasting.



6 Controls and screen mirroring

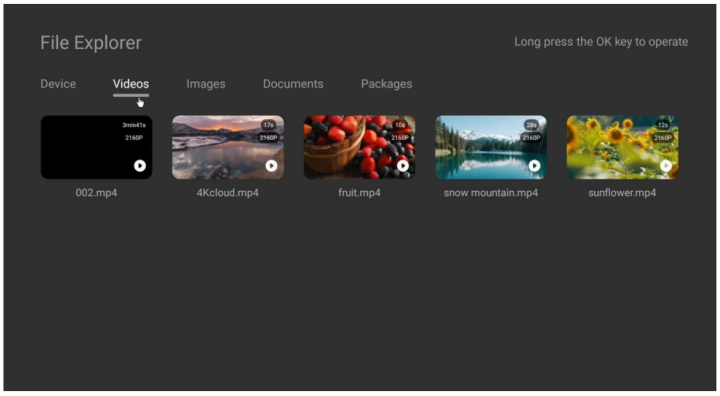
6.6 Browse files by type

Open File Explorer from the home screen and select the category you want to browse.



Videos and images

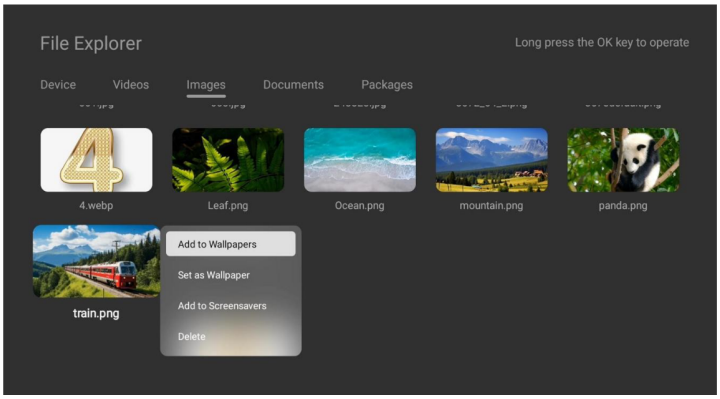
In Videos or Images, select a file and briefly press Confirm to preview it. Use Left or Right to move between files. Press Return twice to exit the preview. To delete the selected file, press and hold Confirm.



6 Controls and screen mirroring

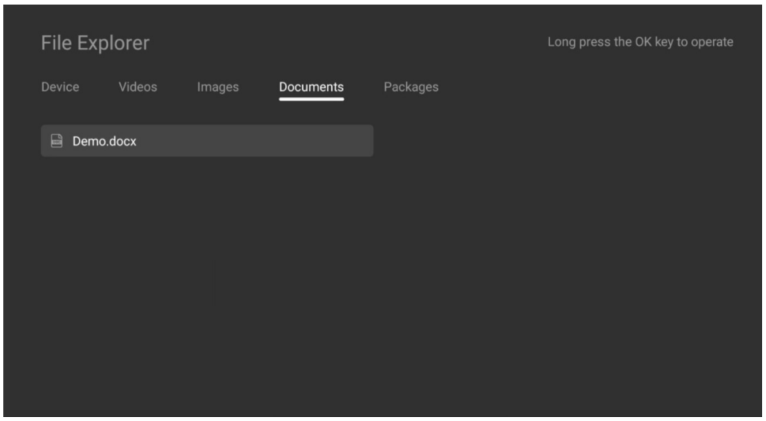
6.6 Browse files by type

Images



Documents and packages

In Documents, briefly press Confirm to open the selected document, or hold Confirm to delete it. The same controls apply to the selected package in Packages.



7 Maintenance and troubleshooting

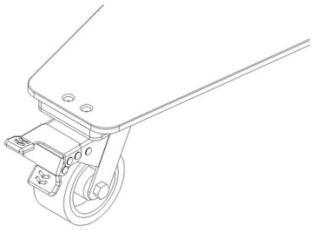
7.1 Caster brakes

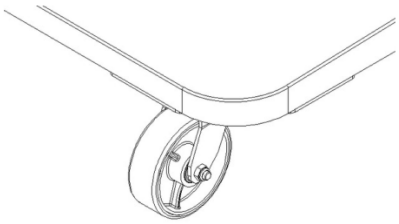
Lock the display in position

Once the display is in position, press down the brake pedal on each caster. Verify that all casters are locked and that the display is stable before operation, maintenance or module replacement.

Move the display

Lift each brake pedal and confirm that all caster brakes are released. Push the display smoothly. Avoid sudden starts and stops, and do not force the display over uneven ground. Reapply all brakes after repositioning.





7 Maintenance and troubleshooting

7.2 Fault diagnosis

Identify whether the symptoms affect the LED module, power supply or data path. Start with external power and signal cables. Check contacts and settings before investigating internal components. Use the modular layout to isolate the affected unit by substitution.

7.3 LED module faults

Symptom	Likely cause	Check or remedy
Individual LED stays dark	Failed LED or solder joint	Replace the affected LED or module.
Block of pixels is black or lacks a colour	Driver IC, resistor or solder joint fault	Replace the affected driver IC or module.
One or more modules in a row go dark	Loose or disconnected ribbon cable or power lead	Check the ribbon cable and module power connections.

7 Maintenance and troubleshooting

7.3 LED module faults

Prepare for service

Have an antistatic wrist strap, a professional front-service tool and a spare LED module ready. Identify the fault visually or through system diagnostics. Record the cabinet and module numbers, for example A1-1 and A1-1-1.

Isolate and inspect

Disconnect power to the affected display area before handling components. Wait at least five minutes for the components to cool. Live equipment presents an electric shock hazard.

For a failed LED or missing colour, replace the affected LED or the module. For a row fault, inspect the ribbon cable and power lead. If a module must be replaced, follow section 7.7 on page 26.

Verify the repair

Restore power and check that the fault has cleared. Verify that the gaps between modules are even.

7 Maintenance and troubleshooting

7.4 Power supply faults

Symptom	Possible cause	Check or remedy
One module is black	Poor connection between the power supply and module	Check the module power connection.
One module is black	Faulty receiving-card supply	Check the receiving-card supply and replace if faulty.
Adjacent modules are black	Faulty module-group supply or uneven load	Check the shared supply and its load distribution.

Diagnostic procedure

Tools: multimeter and Phillips screwdriver. A steady red power indicator on the receiving card indicates normal power. Check the module power input and cables for loose or disconnected connections.

The specified power supply output is 5 V DC. A qualified service technician should verify it with a multimeter, taking care to avoid a short circuit. Disconnect power before replacing a faulty supply. If adjacent areas are affected, check for an overloaded supply.

7 Maintenance and troubleshooting

7.5 Data transmission faults

Symptom	Connection to check
Entire screen is black	Optical fibre link and data input/output sequence.
Entire column is black	Cat5e cable and RJ45 connection from the sending box to the first scanning card.
One module in a column is black	RJ45 cable between adjacent modules.
Modules light in the wrong order	RJ45 cable order and configured data sequence.

Diagnostic procedure

Use a network cable tester and a spare Cat5e cable. A green receiving-card indicator flashing 5 to 10 times per second indicates normal data transmission.

Inspect fibre and network connections and check RJ45 connectors for damage or oxidation. Trace the signal path against the wiring diagram supplied with the unit. Replace damaged cables. Check that the configured data input/output sequence matches the physical connections and cabinet numbering.

7 Maintenance and troubleshooting

7.6 Routine maintenance

Environment and inspection

Keep the display in a dry, well-ventilated location at a suitable operating temperature. Check that cables are secure, power supplies operate without unusual heating, ground connections are intact and lightning arresters function properly.

Clean the LED surface

Remove dust regularly with a soft antistatic brush to maintain uniform brightness. Use only inert, non-abrasive, non-corrosive materials that leave no residue.

Operating precautions

At startup, switch on the LED display before the remote display equipment. At shutdown, turn off the LED display before the computer. Switch off the display when editing the video playlist where practicable. If a fault occurs, switch off the display and contact technical support.

7 Maintenance and troubleshooting

7.7 Front-service module replacement

The cabinets and modules ship separately. Install the cabinets first. The modules use pin connectors and are removed from the front. Use a professional front-service tool and antistatic gloves.

Remove the module

Identify the faulty module by cabinet and module number. Disconnect power as described on page 22. Release the fixing mechanism using the front-service tool and pull the module steadily forward. Keep its corners clear of the neighbouring modules.



①



②



③



④

Install and verify

Secure all cables in the cabinet clips. Align the module with the positioning pins and seat it evenly, with the arrow pointing to the top of the cabinet. Follow the cabinet numbering sequence from bottom to top, then left to right.

Check that the module faces are flush and the gaps between them are even and as small as possible.

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