

Prestigio

SOLUTIONS

Multiboard Light+

Interactive Panel

Models:

PSMB068P650, PSMB068P750,
PSMB068P860, PSMB068P980



Installation and Operation Manual

Version 1.0.6 | May 2024

Introduction

Multiboard Light+ Interactive Panel (hereinafter – "interactive panel", "device") is designed to organize conference calls, training events, presentations. It combines a high-resolution (Ultra HD) touch screen with hardware and software that enables you to play multimedia files, connect external devices, and receive and transmit data over a network and wired connections.

The Multiboard Light+ has the Android operating system pre-installed and is equipped with internal data processing tools as well as a set of connectors for connecting external devices. This makes the Multiboard Light+ a complete computing complex capable of performing tasks related to the processing of different information. It is also possible to connect an additional internal computer to the interactive panel, which extends the technical capabilities of the Multiboard Light+.

This manual contains a detailed description of the device as well as instructions for its installation and operation. This document covers the following Multiboard Light+ Interactive Panel models: PSMB068P650, PSMB068P750, PSMB068P860, PSMB068P980. Please read this manual carefully and keep it in an accessible place.

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Responsibility and Technical Support

This document has been prepared in accordance with all necessary requirements and contains detailed, complete and easy-to-understand information on the installation, setup and operation of the device. The information is current as of the date indicated in the document.

Strict adherence to the recommendations contained in this manual is a basic prerequisite for correct, reliable and safe operation of the device.

This manual as well as the quick start guide are an integral part of the device and should always be available to the user as reference documentation.

The manufacturer reserves the right to modify the device and to make changes and additions to this document without prior notice to users. The manufacturer shall not be liable for possible negative consequences resulting from the use of an outdated version of the document, nor for any possible technical and typographical errors or omissions, nor for incidental or consequential damages that may result from the transfer of this document to third parties or improper use of the device.

The manufacturer makes no warranty with respect to the material herein, including but not limited to the merchantable condition and suitability of the device for any particular application.

In the event of discrepancies in the language versions of this document, the English-language version of this manual shall take precedence.

If you have any technical questions, please contact your local Prestigio Solutions authorized representative or contact technical support at **prestigio-solutions.com**.

The most common problems are described in section 11 of this document and at **prestigio-solutions.com**, where you can also download the latest version of this manual.

Standards compliance



The device is CE certified and meets the requirements of the following European Union directives:

- Electromagnetic Compatibility Directive 2014/30/EU;
- Low Voltage Directive 2014/35/EU;
- Radio Equipment Directive 2014/53/EU;
- Directive 2009/125/EU on the ecodesign of energy-using products.



The device meets the requirements of the RoHS Directive 2011/65/EU on the restriction of hazardous substances.



The device has passed all assessment procedures established in the technical regulations of the Customs Union and complies with the norms of the Customs Union countries.



National Mark of Conformity of Ukraine, indicating that the device meets all required technical regulations.



These symbols indicate that you must follow the Waste Electrical and Electronic Equipment (WEEE) * regulations when disposing of the device. According to the regulations, the device, its batteries and accumulators, and its electrical and electronic accessories must be disposed of separately at the end of their service life. Do not dispose of the device together with unsorted household waste, as this would be harmful to the environment.



To dispose of the device, return it to the point of sale or take it to your local recycling centre. For more information about recycling this device, contact your local household waste disposal service.



Electronic versions of the certificates and reports received can be found at **prestigio-solutions.com/certificates-of-compliance**

CZ	EE	GB	GR	HR	KZ	LT	LV	PL	RO	RS	SK
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* Waste Electrical and Electronic Equipment, or WEEE, means used electrical or electronic equipment, including all components, assemblies, consumables that are part of the equipment at the time it is taken out of service (including supplied batteries/rechargeable batteries (if any), components containing mercury, etc.).

Simplified declaration of conformity

Hereby, ASBISC declares that the device is in compliance with Directive 2014/53/EU. The full text of the EU Declaration of Conformity is available at the following web address: **prestigio-solutions.com/certificates-of-compliance**.

Limitations and warnings

Please read the information in this section of the document carefully before you start installing and operating the device.

Warning symbols and signs



General warning sign



Electricity hazard sign



Refer to instruction manual of the device



Disconnect the plug from the electrical outlet during long interruptions



The user is not allowed to open the device by himself



It is forbidden to touch the internal components of the device because of the high voltage



To avoid damage, do not step on the device



To avoid damage, do not drop the device



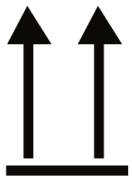
Protect from moisture, store only in a dry place



Fragile load. Danger of damage due to strong mechanical impact



The contents of the package need to be handled with the utmost care



Correct vertical position of the product. Transport and storage in an upright position only



Packaging material – corrugated cardboard



The packaging of the device can be disposed of with household waste



Cadmium content in the screen components does not exceed 0.01% (according to Directive 2011/65/EU)

Safety Operation Rules

For proper and safe use of the Multiboard Light+ interactive panel and accessories, you must follow the instructions and safety precautions provided in this user manual.

The manufacturer is not responsible for damage caused by improper use of the devices.

Use the device only in a domestic environment and in the manner described in this user manual. Failure to follow the operating instructions in this document may result in personal injury or property damage.

WARNING! The warnings, precautions and instructions contained in this document do not constitute all possible and dangerous situations. Use common sense when using the device.

Installation

- Only qualified installers (at least two people) should install the interactive panel;
- Install the device indoors only;
- The device is designed for use in living environment, offices and other similar premises;
- To prevent fire, short circuit and/or electric shock, do not use the device in areas with extreme temperature fluctuations, high humidity, or where dust, splashing water, drips or condensation may come into contact with the device. The device is not waterproof, do not allow liquids to get on it;
- Do not install the device near open flames, hot surfaces, or heating appliances. Avoid direct sunlight and other potential heat sources;
- For fire safety reasons, do not use the device in a room where combustible material vapors are present;
- Make sure that the location chosen for installation can support the weight of the device and allows for sufficient air circulation around it;
- As you move the device, hold it by the handles on the body.

Connection

- Before connecting the device to the mains, make sure that the rated voltage indicated in the technical documentation corresponds to the electrical voltage of the outlet;
- Before turning the device on, make sure that there is no protective film on the device and that it is installed according to the instructions;
- Connect only to a grounded power outlet. Do not use an extension cord;
- Connect the plug to and disconnect from the power outlet only with dry hands.

Operation

- Observe the temperature operation mode of the device as specified by the manufacturer;
- Use original cables and accessories;
- Locate cables where there is no risk of unintended external interference (if possible, in protective cable ducts). Do not allow cables to become crushed or pinched;
- Do not use damaged cables or attempt to repair them yourself;
- Do not remove the back cover when the interactive panel is on. There are high voltage parts inside the device. Touching them can cause serious injury;
- Use only the internal PC models recommended by the manufacturer (PMB528K001, PMB528K002, PMB528K003, PSMB528K001, PSMB528K002). Using third-party models will damage the interactive panel.
- Do not turn off the power to the interactive panel or put it into standby mode without first disconnecting the internal PC (if installed), as this may damage the devices;
- Regularly update the installed software and firmware of the device to the latest version. Do not install third-party firmware;
- Always unplug the device after using it or before cleaning it;
- Use the interactive panel connectors only for their intended purpose;
- Do not insert foreign objects into the connectors of the device, do not use force when connecting as this may damage the connectors;
- To avoid damage, do not drop or bump the device;
- Do not make any modifications to the device or accessories;
- To prevent the device from overheating, do not block the ventilation holes;
- Do not place foreign objects on top of the device;
- Keep the device, accessories and packaging out of the reach of children and pets to avoid swallowing small parts, strangulation and injury;
- Regularly inspect connectors and cables for wear, damage, bare wires, and corrosion, and replace them in a timely manner;
- Do not leave a still image or an active image that contains stationary text or an item on the screen for a long period of time. This will cause a "ghost image" to appear on the screen, which will not disappear for a long time after the device is turned off;
- Keep your hands clean when using the touchscreen. Fingerprints are difficult to remove;
- To avoid damage, do not press or bump the screen when touching it.

Maintenance

- Use a dry or slightly damp, lint-free cloth to clean the device housing. Do not clean the device until it has been turned off and disconnected from the power supply;
- Do not use strong chemicals or abrasive materials for cleaning;
- Turn off the device and unplug it from the mains during a thunderstorm;
- If you do not use the device for an extended period of time, unplug it from the power outlet;
- If the device is moved from an environment below 0 °C to a warm place, condensation may form inside the device. In this case, do not turn the device on for at least 24 hours to allow the condensation to evaporate naturally;
- If you notice a malfunction, stop using the device immediately and contact the service center;

- The device and its components should only be repaired by a specialist from the service center. Do not attempt to repair the device yourself.

If you have any questions about servicing your device, please contact technical support. Only authorized service centers (see **prestigio-solutions.com** for centers' addresses) may repair your device.

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1 General description and characteristics

1.1 Purpose of the device

The Multiboard Light+ interactive panel is designed for conference calls, presentations, training sessions, and multimedia file playback. It is used in conjunction with conferencing devices (e.g., video cameras, speakerphones) as well as external data sources (e.g., computers, external storage devices). The panel also has its own video camera, microphone and speakers. The Multiboard Light+ interacts with a wide range of peripheral devices due to the different types of connectors available on the device, as well as wireless connectivity (Wi-Fi, BT).

The interactive panel features a 4K Ultra HD screen with LED backlighting, infrared touch technology and multi-touch function. The touch screen is responsive, precise, and allows the user to work both with a stylus and by touching the screen with their fingers. The interactive panel is also equipped with software for writing and drawing on the screen. The device is convenient, interactive, safe and environmentally friendly.

Functionality of the Multiboard Light+ interactive panel:

- High definition image thanks to the 4K resolution screen;
- Backlighting that ensures the screen is bright and visible even in bright sunlight;
- Powerful speakers with high-quality, clear sound (2.1 system);
- Touch control of objects on the screen (up to 40 points of simultaneous action);
- Remote control (RC) from the remote control unit;
- Control with input devices (keyboard, mouse);
- Writing and drawing function on the screen (up to 40 points of simultaneous action);
- Wired and wireless connection of external devices;
- Wi-Fi access point for other devices;
- User installation of software to suit their own needs;
- Connecting an internal computer to run Windows OS and compatible software (compatible computer models: PMB528K001, PMB528K002, PMB528K003, PSMB528K001, PSMB528K002);
- Touch control lock to protect against unwanted exposure;
- Availability of models with screen diagonal of 65, 75, 86, 98 inches;
- Mounting on the wall or on a floor stand.

1.2 Design elements and their purpose

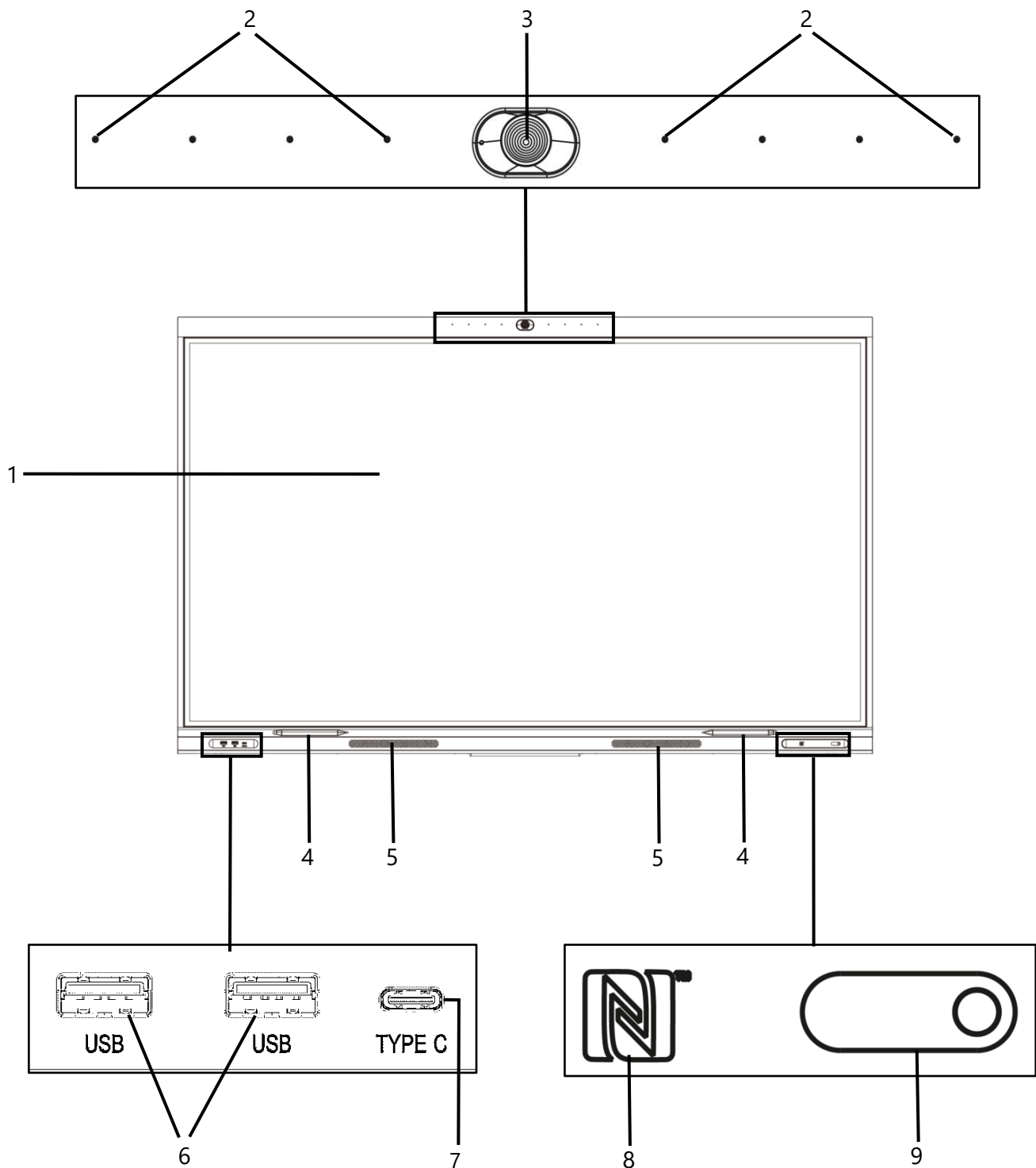


Figure 1 – Front view

NOTE. The images are for illustrative purposes only.

Table 1 – Front panel elements

No.	Element	Purpose
1	Touch screen	Video display, touch control of the device, creation of graphic objects
2	Microphones	Capturing sound at the interactive panel installation site
3	Camera	Capturing image at the interactive panel installation site
4	Magnetic surface	Attaching accessories (such as styluses)
5	High-frequency speakers	Audio playback
6	USB Type A 3.0 connectors	Powering and charging external devices, sharing files with external devices
7	USB Type C connector	Powering and charging external devices, sharing files with external devices
8	NFC sensor	User identification, authorization in the operating system
9	IR remote control receiver *	Receiving a signal from the RC unit
	Light sensor *	Fixing changes in the lighting of the place where the interactive panel is installed, to adjust the screen backlighting

* The elements are combined into one unit and are hidden by a protective cover.

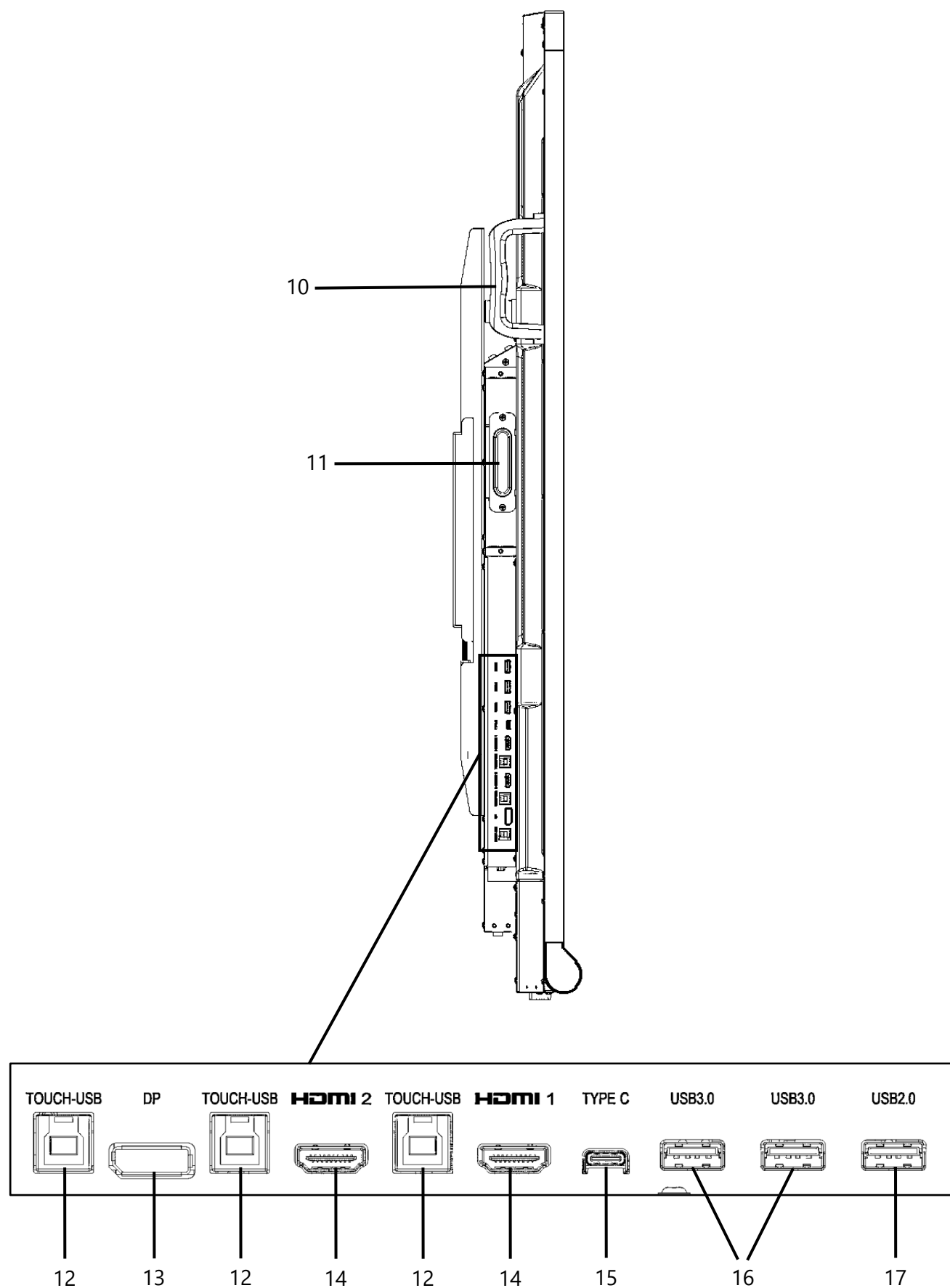


Figure 2 – Left view

Table 2 – Elements of the left panel

No.	Element	Purpose
10	Handles	Moving the device
11	Internal PC slot with JAE (80 pin) connector	Connecting the internal PC to the interactive panel
12	USB Type B 3.0 (Touch-USB) connectors	Control signal transfer to an external computer
13	DisplayPort (DP) IN connector	Receives high-definition (up to 3840×2160, 30 Hz) digital audio and video signal from an external device
14	HDMI IN connectors	Receives high-definition (up to 3840×2160, 60 Hz) digital audio and video signal from an external device
15	USB Type C connector	Powering and charging external devices, sharing files with external devices
16	USB Type A 3.0 connectors	Powering and charging external devices, sharing files with external devices
17	USB Type A 2.0 connector	Powering and charging external devices, sharing files with external devices, OTG update

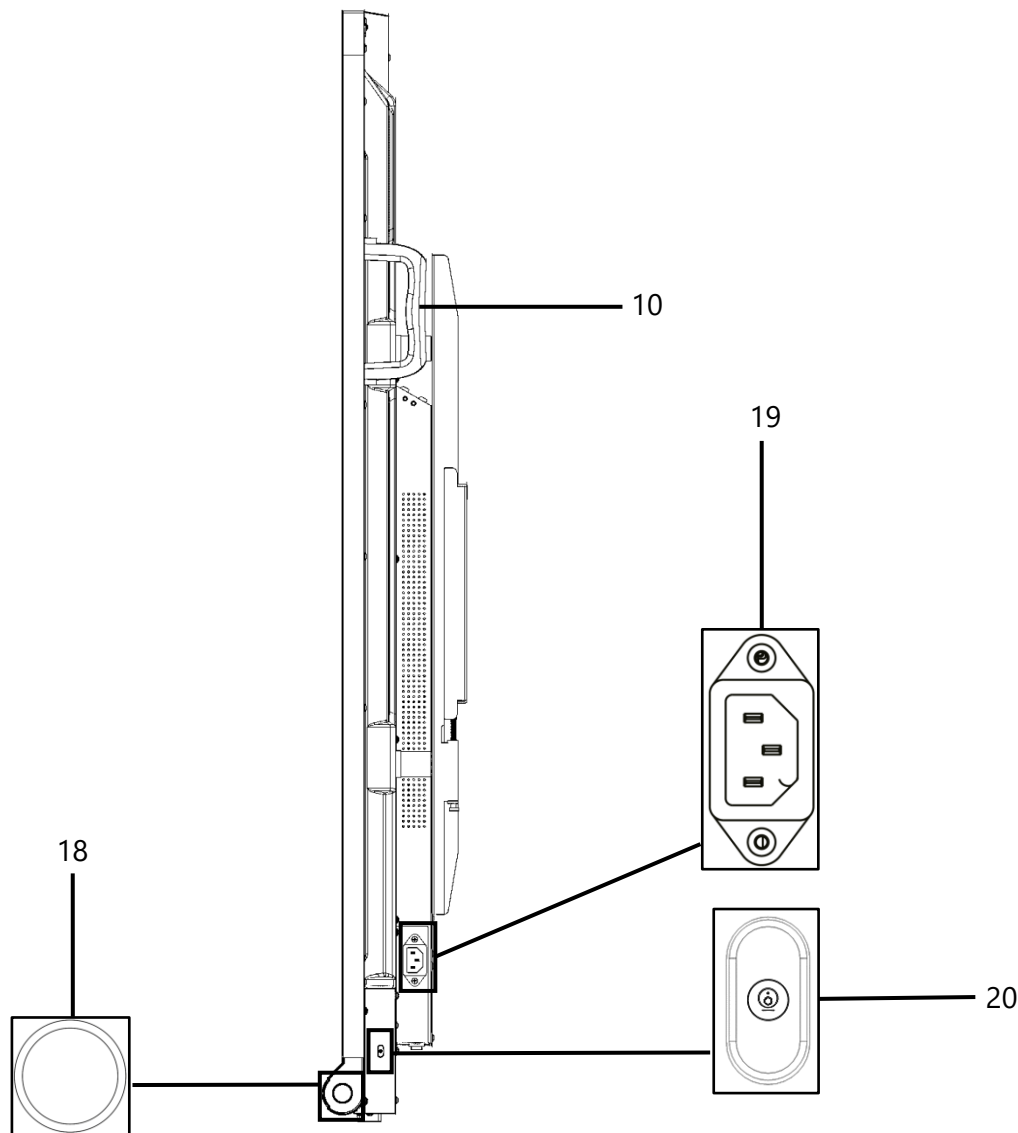


Figure 3 – Right view

Table 3 – Elements of the right panel (see figure above)

No.	Element	Purpose
18	Power button	Switching the interactive panel to standby mode and to operation mode (press once in each case). Indication of the device status: - glows blue – the device is turning on; - glows red – the device is turning off; - flashes red/blue alternately – firmware update is in progress; - off – the device power is off (the device is not working)
19	Power connector	Connecting the power cable
20	Button to control the camera and microphone	Turning the built-in video camera and microphone on and off (press once in each case)

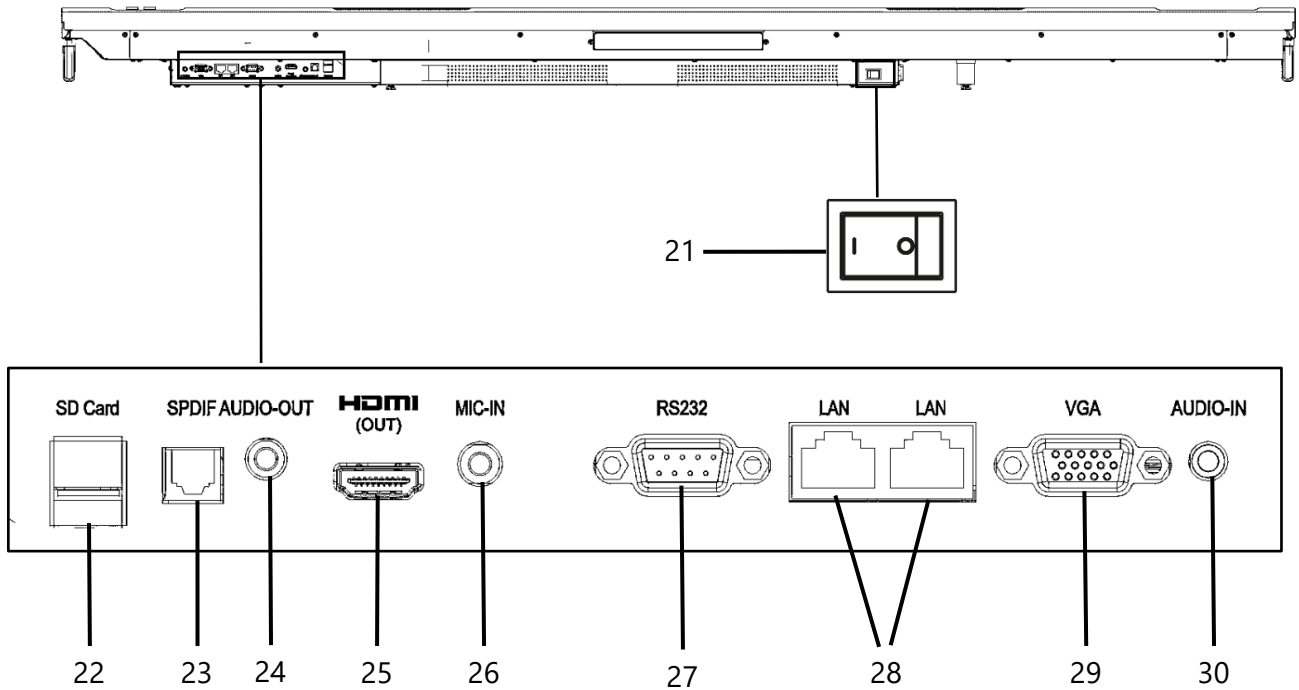


Figure 4 – Bottom view

Table 4 – Elements of the bottom panel (see figure above)

No.	Element	Purpose
21	Power toggle switch	Turning the interactive panel power on and off
22	SD card slot	Expanding the device memory with an SD card
23	S/PDIF connector	Transmitting digital audio signal to external speakers with a S/PDIF connector
24	AUDIO OUT connector	Transmitting analog audio signal to external audio output devices
25	HDMI OUT connector	Transmitting high-definition digital audio and video signal to an external device
26	MIC IN connector	Receiving analog audio signal from an external microphone
27	RS232 connector	Interactive panel control from an external computer
28	LAN (RJ45) connectors	Connecting the interactive panel to network devices (such as a modem)
29	VGA connector	Receiving analog video signal from an external computer
30	AUDIO IN connector	Receiving analog audio from an external audio device

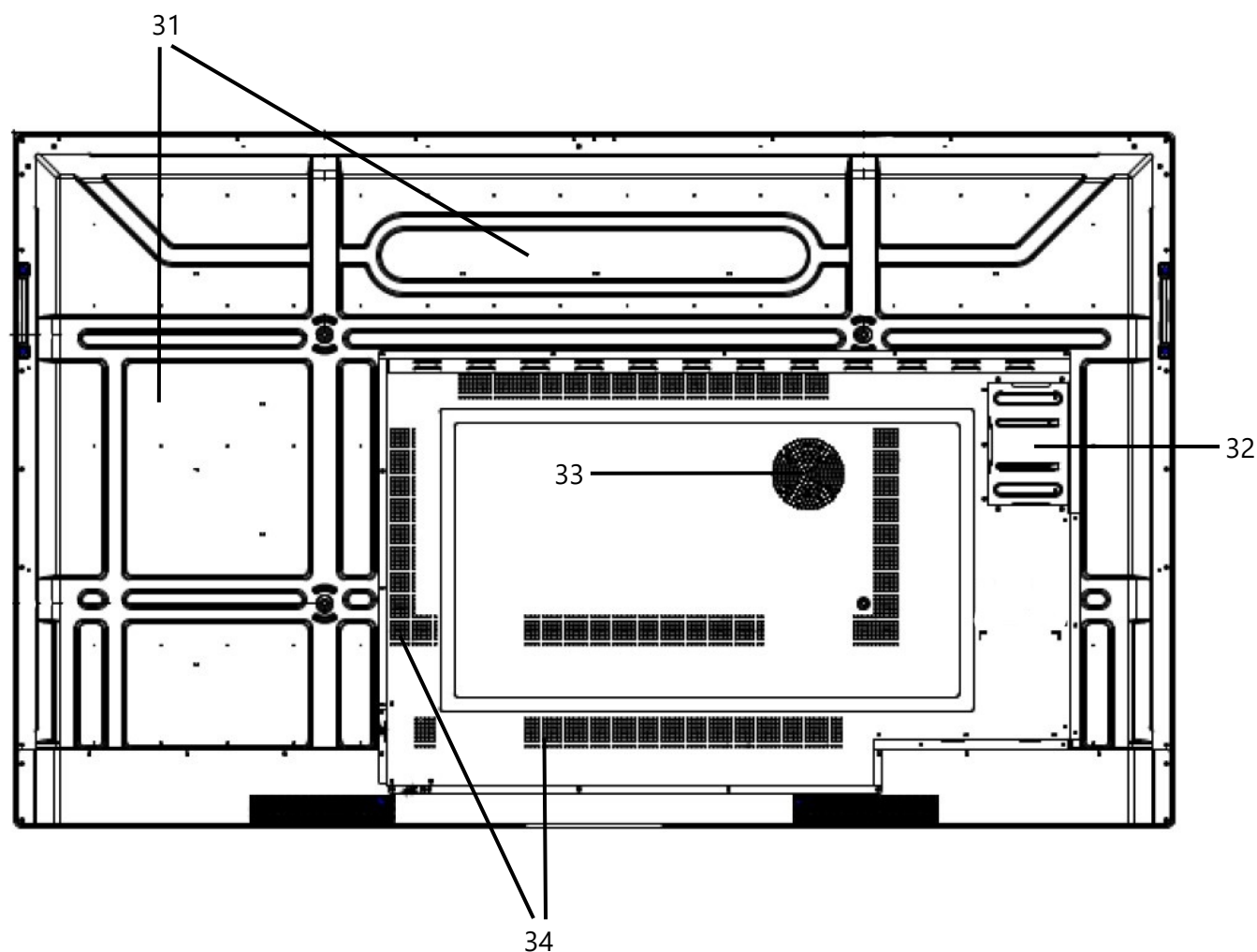


Figure 5 – Back side of the panel

Table 5 – Rear panel elements (see figure above)

No.	Element	Purpose
31	Metal cover	Protection of electronic components from the external environment
32	Slot for internal PC	Internal PC installation and connection
33	Low-frequency speaker	Audio playback
34	Ventilation holes	Heat dissipation during device operation

1.3 Technical specifications

Table 6 – Main technical specifications of Multiboard Light+

Parameter	Value			
Model	PSMB068P650	PSMB068P750	PSMB068P860	PSMB068P980
Power supply				
Power supply voltage	Input 100–240 V (alternative current), frequency 50/60 Hz			
Power consumption	300.0 W	380.0 W	460.0 W	480.0 W
	0.5 W max in standby mode			
Image				
Screen size	64.5"	74.52"	85.6"	97.5"
Screen resolution	3840×2160 pixels (4K Ultra HD), 16:9 aspect ratio			
Screen technology	LCD, touch (infrared), Direct LED backlight			
Touch control	40 points of simultaneous action			
Viewing angle	178° (vertical) / 178° (horizontal)			
Brightness: - minimum; - standard; - maximum	300 cd/m ² ; 350 cd/m ² ; 400 cd/m ²	350 cd/m ² ; 400 cd/m ² ; 400 cd/m ²	350 cd/m ² ; 400 cd/m ² ; 400 cd/m ²	400 cd/m ² ; 450 cd/m ² ; 500 cd/m ²
Contrast: - static; - dynamic	1200:1 4000:1	1200:1 5000:1	1200:1 5000:1	1200:1 5000:1
Refresh rate	60 Hz			
Response time	≤ 8 ms			
Camera	Sensor: 1/2.8", CMOS, 8 MP, Ultra HD (4K, ≤ 30 fps). Video compression: MJPEG. Viewing angle: 103° (diagonal) / 64° (vertical) / 94° (horizontal). Focusing distance: ≥ 80 cm			
Sound				
Speakers	2×16 W (high frequency), 1×16 W (low frequency)			
Microphone	8-element, voice capture radius: ≤ 8 m			

Parameter	Value			
Model	PSMB068P650	PSMB068P750	PSMB068P860	PSMB068P980
Connection interfaces				
AUDIO IN	1			
AUDIO OUT	1			
DP IN	1			
HDMI IN	2			
HDMI OUT	1			
JAЕ (80 pin)	1			
LAN	2			
MIC IN	1			
RS232 IN	1			
SD card slot	1 (cards up to 128 GB are supported)			
S/PDIF	1			
USB Type A 2.0	1			
USB Type A 3.0	4			
USB Type B 3.0	3			
USB Type C	2			
VGA IN	1			
Network specifications				
LAN	10/100/1000 Mbps			
Wi-Fi	802.11 b/g/n (2.4 GHz): ≤ 18.79 dBm (75.68 mW) 802.11 a/n/ac (5 GHz): ≤ 16.85 dBm (48.42 mW)			
BT	BT 4.2/5.1, ≤ 3.96 dBm (2.49 mW)			
NFC	≤ 30 cm (NFC-A ISO/IEC14443A, NFC-B ISO/IEC14443A), MIFARE FeliCa card support			
Hardware features				
CPU	ARM A73 2.2 GHz (×4) + ARM A53 2.0 GHz (×4)			
GPU	ARM Mali-G52 MP8 (800 MHz)			
RAM	8 GB, DDR4			
Internal memory	64 GB, eMMC			
Software				
Operating system	Android 11 (preinstalled)			

Parameter	Value			
Model	PSMB068P650	PSMB068P750	PSMB068P860	PSMB068P980
Installed software	Screen mirroring, Displayforce Player, Chrome, mozaBook, Chromium, Cloud, NFC, Camera, Email, File Manager, S-write, OfficeSuite, mozaik3D, Prestigio mTeacher			
OSD menu languages	Albanian, Arabic, Armenian, Bulgarian, Croatian, Czech, English, Estonian, Greek, Kazakh, Latvian, Lithuanian, Polish, Romanian, Russian, Serbian, Slovak, Ukrainian			
Physical characteristics				
Material	Aluminum, tempered glass			
Colour	Black			
Size (L×W×H) (mm)	1482.1×105.6×936.7	1716.5×105.6×1069.7	1961.8×105.6×1207.7	2230.8×121.7×1356.4
Net weight (kg)	38.5	53.5	66.7	108
Size of compatible VESA mount	600×400 (M8)	800×400 (M8)	800×600 (M8)	800×600 (M8)
Operating conditions	Temperature: 0...+40 °C. Relative humidity: 10–80 % (no condensation)			
Storage conditions	Temperature: –40...+60 °C. Relative humidity: 10–80 % (no condensation)			
Protection level	Housing – IP30. USB cable, HDMI cable, and power cable – IP20. RC unit – IP50			
Warranty period	2 years + 1 year of free service *			
Service life	3 years			

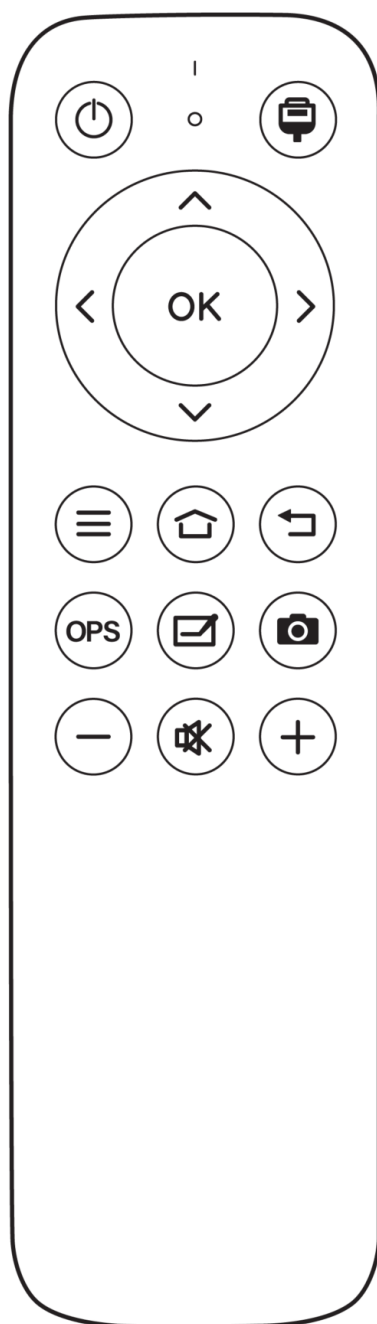
* Free service does not include shipping charges or the cost of replacement parts (see prestigio-solutions.com/warranty for details).

1.4 Remote control unit

The basic functions of the Multiboard Light+ are controlled using the remote control (RC unit) included in the package (see figure below).

The remote control operates on 2 AAA batteries. Batteries are not included and must be purchased separately.

Table 7 – Remote control buttons and their purpose



	ON/OFF. Press once to turn the device on or put it in standby mode
	Signal sources. Press once to go to the list of available sources
	Menu navigation. Press once or several times to select or adjust settings in the menu
OK	Confirmation. Press once to confirm your choice
	Main menu. Press once to enter or exit the menu
	Home page. Press once to go to the Android home page
	Return. Press once to go one step back in the menu
OPS	Switching to the internal computer (PC). If a PC is connected, press once to use it in the interactive panel operation
	S-write application. Press once to open the application
	Screenshot. Press once to save the image on the screen
	Volume down. Press once or several times to decrease the volume
	Volume up. Press once or several times to increase the volume
	Muting/unmuting the sound. Press once to turn the sound on or off

Figure 6 – Remote control unit

1.4.1 Installing the batteries into the remote control unit

Step 1. Remove the cover on the back of the remote control by sliding it in the direction of the arrow (see figure below).

Step 2. Insert two batteries, observing the polarity (follow the markings on the RC unit).

Step 3. Close the cover.

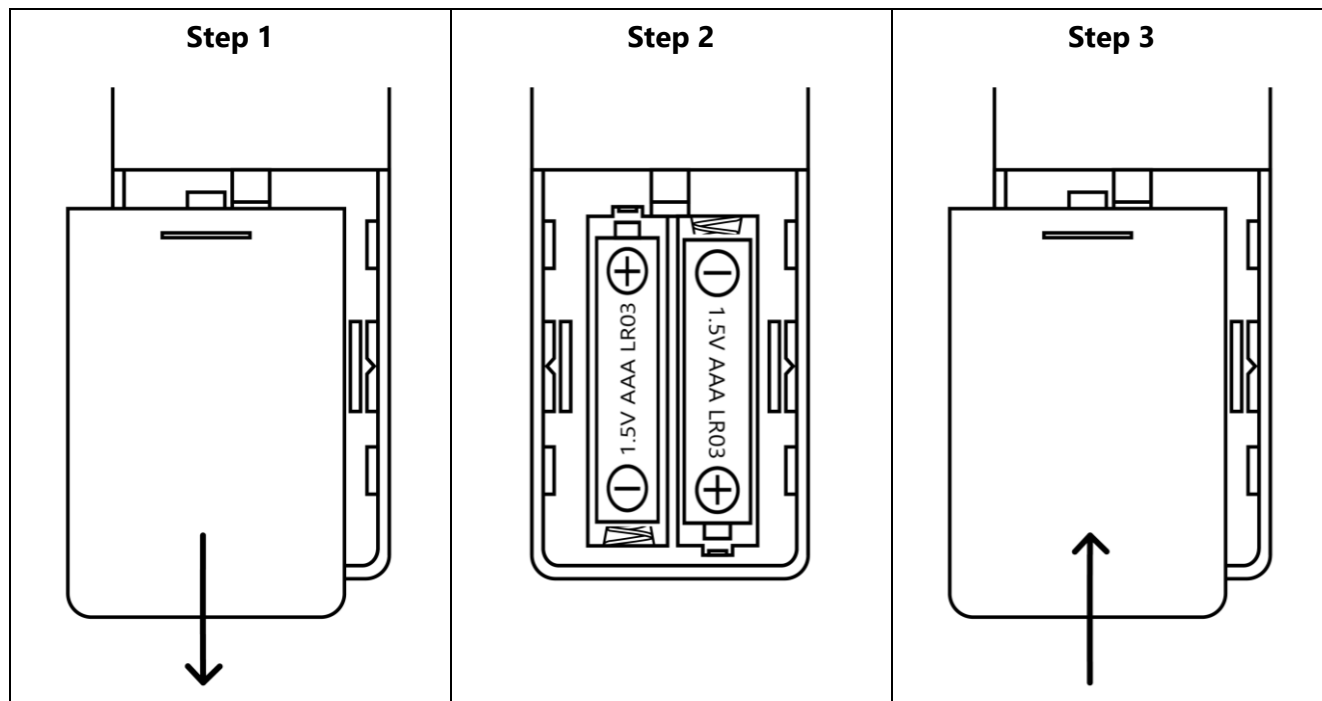


Figure 7 – Installing/replacing batteries in the RC unit

To prevent leakage, do not use a new and a used battery at the same time, or use different types of batteries.

Remove the batteries if the remote control is not used for more than one month.

Dispose of used batteries according to national and local laws and regulations.

1.4.2 Using the remote control

Use the RC unit by pointing its IR LED toward the IR receiver at the bottom of the interactive panel (see figure below). There must be no obstructions between the IR LED on the RC unit and the IR receiver on the Multiboard Light+.

The RC unit provides the signal strength necessary to contact the receiver at a distance of up to 8 meters and at an angle of up to 30° in either direction.

Control the functions of the interactive panel according to the remote control buttons.

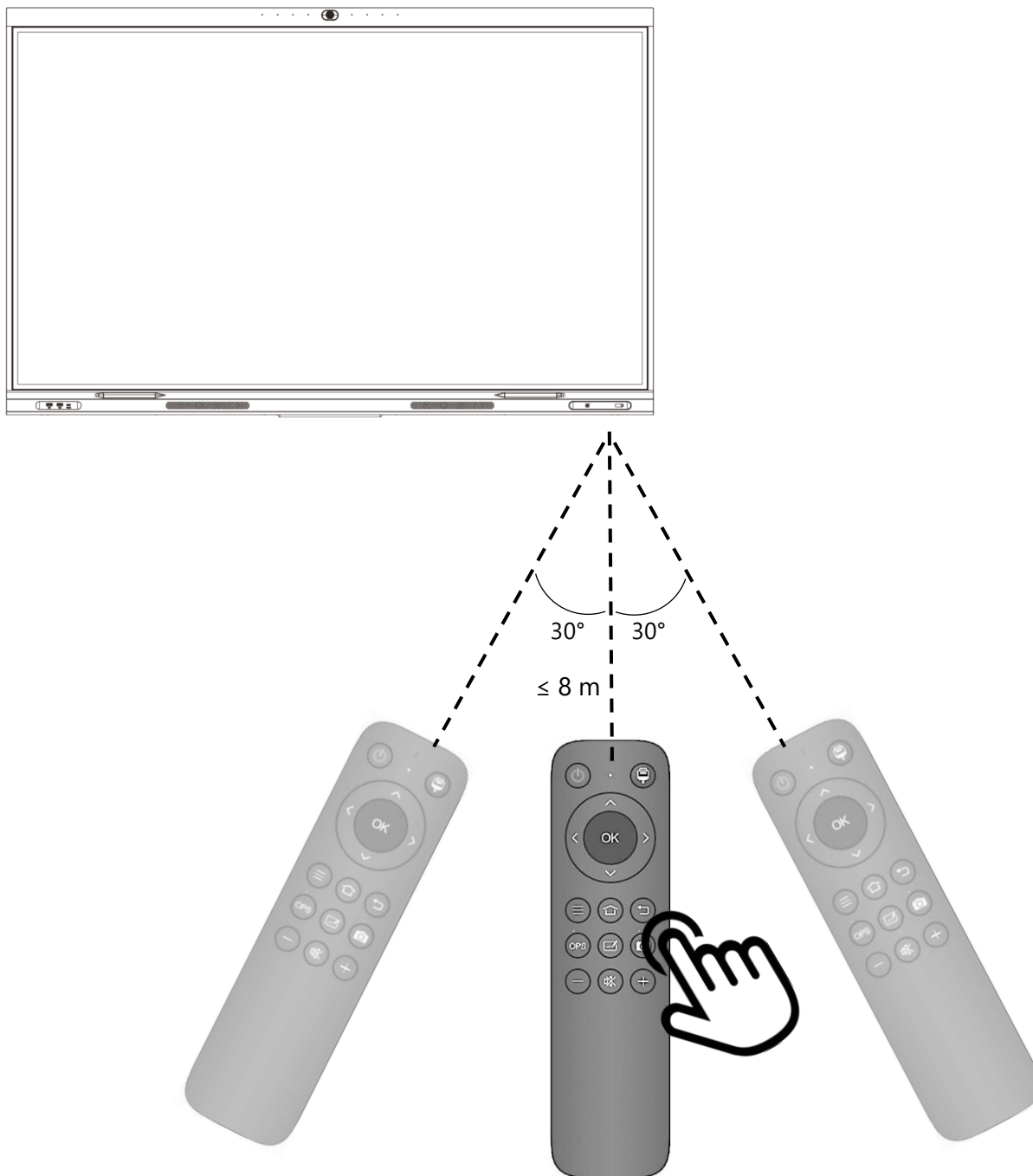


Figure 8 – Using the RC unit

NOTE. Do not use the RC units of different devices near the interactive panel at the same time, as their emissions can interfere with each other.

If the range of the RC unit is noticeably reduced, replace the batteries.

WARNING! When the interactive panel is turned off using the RC unit, power continues to be supplied. To completely disconnect the device from the power supply, turn the toggle switch on the bottom of the housing to position **●** ("Off") and remove the power plug from the socket.

1.5 Multifunction pen

Unlike styluses, which are designed only for creating graphical objects (inscriptions, marks) on the screen of the interactive panel, the multifunction pen additionally allows you to control presentations shown on the screen. This is possible when paired with the interactive panel and is accomplished using the control buttons on the pen housing (see figure and table below).

The multifunction pen operates on 1 AAA battery. The battery is not included in the package and must be purchased separately.

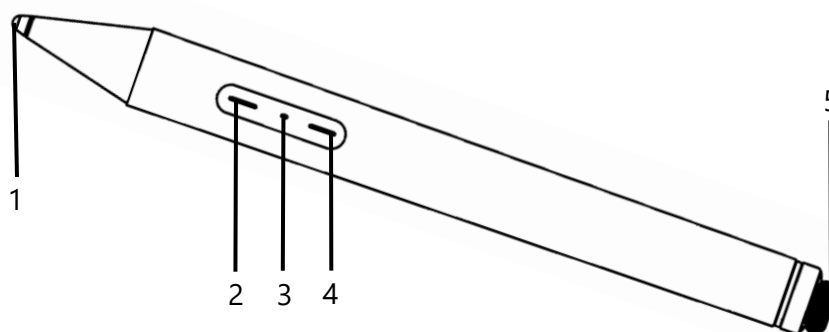


Figure 9 – Multifunction pen

Table 8 – Elements of the multifunction pen (see figure above)

No.	Element	Purpose
1	Writing and drawing tip	Creating graphic objects on the touch screen of the interactive panel
2	"Up" button	Work with presentations on the interactive panel screen: - press and hold for 1.5–4 seconds to expand the presentation to full screen; - press once to move one slide up in the presentation. Switching the multifunction pen to standby mode: - press and hold for more than 4 seconds
3	LED indicator	Status indication of the multifunction pen: - flashes green – pairing with the interactive panel is in progress; - off – the pen is in standby mode
4	"Down" button	Work with presentations on the interactive panel screen: - press and hold for 1.5–4 seconds to exit full screen mode; - press once to move one slide down in the presentation. Switching the multifunction pen to pairing mode: - press and hold for more than 4 seconds

5	Colour changing tip for writing and drawing	Creating graphic objects in a colour different from tip 1 (pre-select colours from the S-write application menu)
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1.5.1 Installing the battery into the multifunction pen

Step 1. Remove the cap on the back of the pen (see figure below).

Step 2. Insert the battery, observing the polarity.

Step 3. Close the cap.

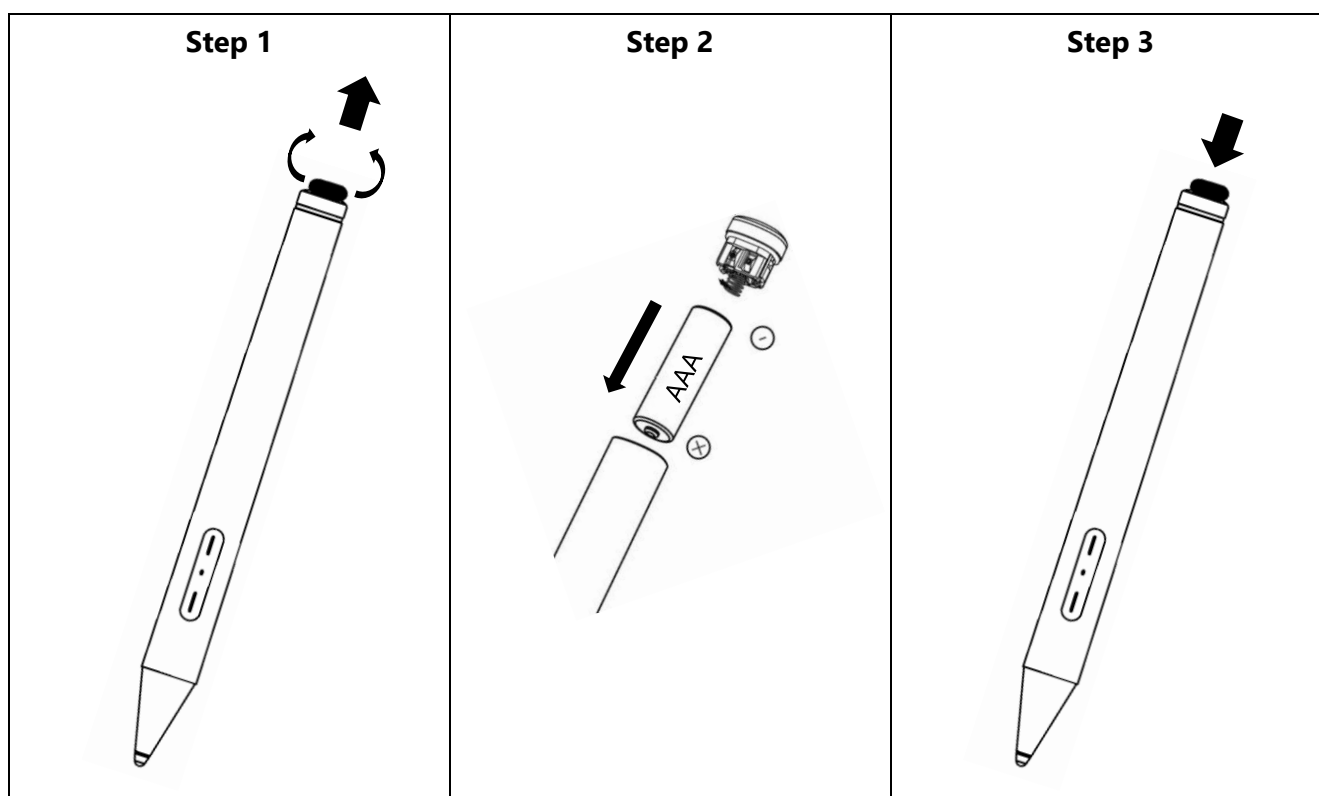


Figure 10 – Installing/replacing the battery in the multifunction pen

If the range of the pen is noticeably reduced, the battery should be replaced.

Remove the battery when the pen has not been used for more than one month.

Dispose of used batteries according to national and local laws and regulations.

1.5.2 Using the multifunction pen

Pair the multifunction pen with the interactive panel. In the panel system settings menu, under "Device Management" (see below), select the "Active Pen" option. On the pen, press and hold the "Down" button (see table above). On the screen, tap "Repairing". Wait for the indicator to signal. Next, a pop-up connection notification will appear. The multifunction pen icon will be displayed in the upper right corner of the screen.

When operating in Windows OS (with an internal PC connected), pairing can also be performed using the touch screen. Touch the centre of the interactive panel screen with five fingers of one hand. Simultaneously touch the lower right corner of the screen with the finger of your other hand. Hold your fingers in this way for 1 second to enter pairing mode. Then press and hold the "Down" button of the multifunction pen for 4 seconds. The indicator light will flash once per second and go out after pairing.

NOTE. When you turn off the interactive panel, the pen pairing is reset. The next time the panel is turned on, the pairing must be performed again.

When working in the S-write application, a notification of the pressure-sensitive writing and drawing mode will appear after pairing. When creating graphic objects, the line thickness depends on how hard you press and how long you tap the touch screen with the pen. This mode is not available for styluses.

NOTE. If you have paired the pen with the interactive panel, the multi-touch function in the S-write application is not available. Only one user can create graphical objects in this case.

When working with presentations, point the pen toward the screen and press the buttons on the pen housing according to their purpose (see table above). The pen provides the signal strength needed to contact the interactive panel up to a distance of 6 meters.

The interactive panel supports operation with only one multifunction pen. If you try to connect several multifunction pens to the interactive panel, the last one connected will be available for use.

NOTE. Depending on the firmware version of the interactive panel as well as the modification of the multifunction pen, the pairing order may vary.

NOTE. The multifunction pen will automatically enter standby mode if no action is performed for 5 minutes. To return to operating mode, press any of its buttons once or touch its tip to the touch screen of the interactive panel.

1.6 Scope of supply

The Multiboard Light+ scope of supply includes the following devices and accessories:

1. Multiboard Light+ interactive panel (1 pc.)
2. Remote control unit (1 pc.)
3. Power cable with E/F type plug (3 m) (1 pc.)
4. Power cable with G type plug (3 m) (1 pc.)
5. USB Type A/B cable (3 m) (1 pc.)
6. HDMI cable (3 m) (1 pc.)
7. Styluses (6 pcs.)
8. Multifunction pen (1 pc.)
9. Quick Start Guide (1 pc.)

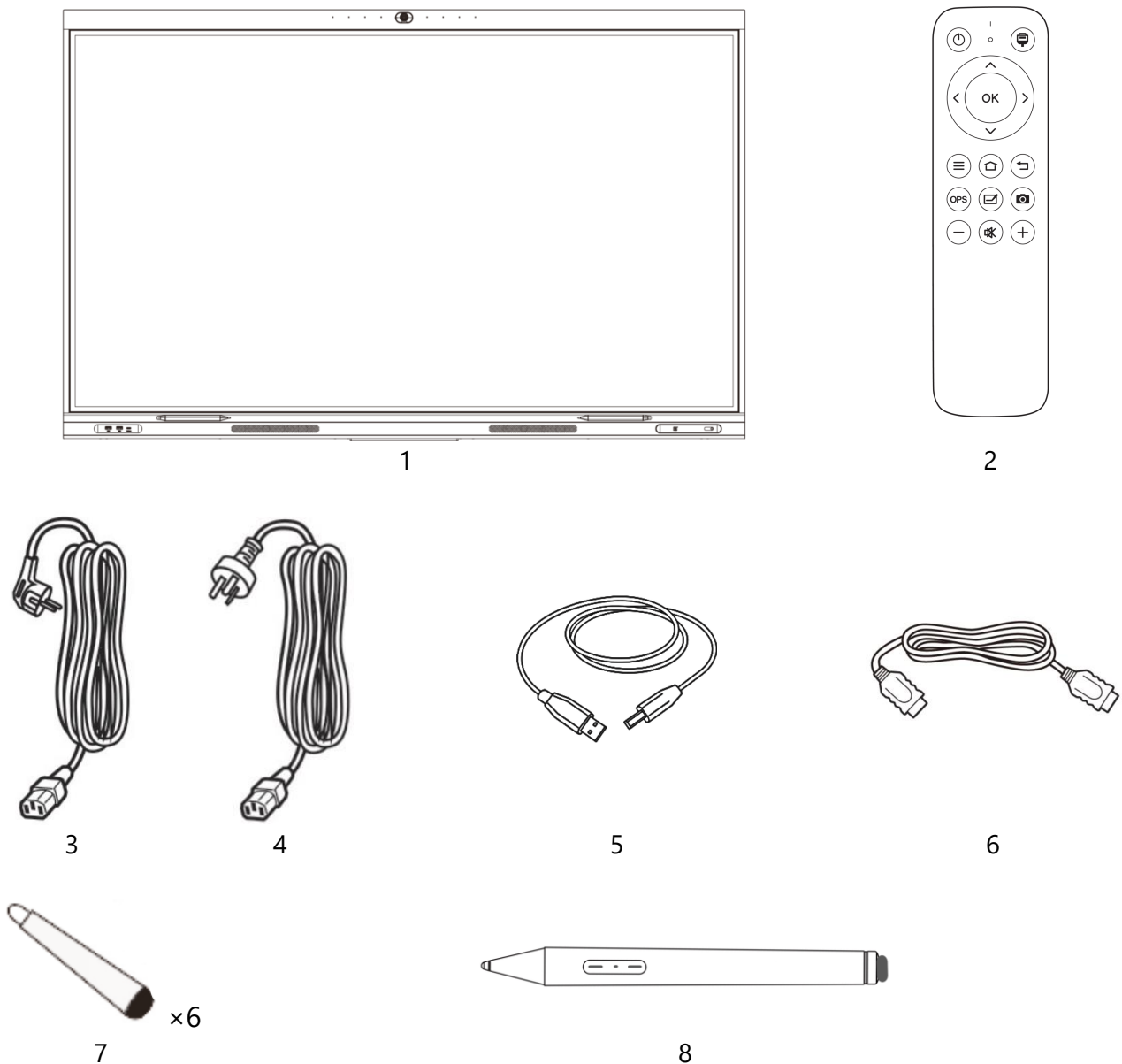
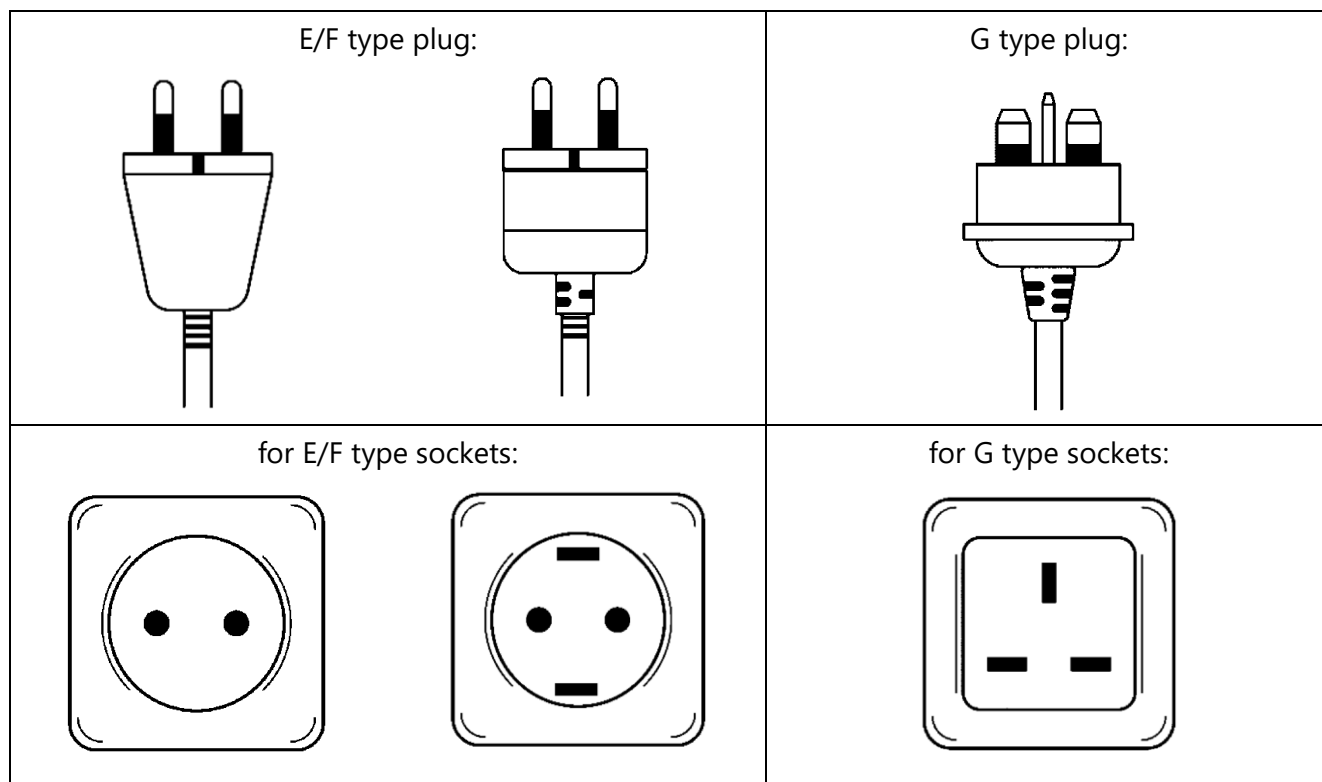


Figure 11 – Scope of supply

1.7 Types of electrical sockets and plugs

Since electrical socket standards vary from country to country, several plug options have been provided for the interactive panel, depending on the country where the device is sold.



1.8 Packaging and labeling

The Multiboard Light+ interactive panel comes in individual cardboard packaging containing the full name and labeling of the device, its main technical specifications, as well as the date of manufacture and information about the manufacturer and importers.

Table 9 – Size and weight, depending on model

	PSMB068P650	PSMB068P750	PSMB068P860	PSMB068P980
Size (L×W×H) (mm)	1482.1×105.6× 936.7	1716.5×105.6× 1069.7	1961.8×105.6× 1207.7	2230.8×121.7× 1356.4
Package size (L×W×H) (mm)	1660×220×1045	1900×225×1160	2160×225×1310	2455×310×1485
Net weight (kg)	38.5	53.5	66.7	108
Gross weight (kg)	47.5	65.5	79.4	157.3

2 Installation

WARNING! Unpacking, installation and subsequent dismantling of the interactive panel should only be carried out by qualified installers (at least two people). Do not attempt to install or dismantle the device yourself!

Unpack the Multiboard Light+ interactive panel. View the contents of the package. Remove packaging materials from the panel housing and screen. Make sure beforehand, there is no damage to the housing and the LCD panel. If damage is detected, the device must not be operated. Based on the size and weight of the interactive panel, as well as the characteristics of its users (height, physical ability), decide on the place and method of installation.

The process of preparing the device for operation can be divided into several key steps:

- choosing an installation site for the interactive panel;
- installation of the interactive panel;
- connecting the interactive panel to external devices.

2.1 Installation site selection

When choosing a place to install the interactive panel, consider the following:

- the chosen place must be able to support the weight of the device, provide it with a stable support and air circulation around it;
- the electrical outlet must be within the length of the power cord (≤ 3 m).

Ensure an unobstructed IR signal from the RC unit to the interactive panel. To reduce glare, the device should be positioned so that no direct light falls on the screen.

NOTE. Place the cables according to the safety regulations (see "Safe operating rules" section).

2.2 Installation process

The Multiboard Light+ must be installed in a vertical position (without tilting) in one of the suggested ways (see 2.2.1, 2.2.2 below).

NOTE. Mounting tools (drill, hammer, screwdriver, wrench, spirit level – depending on the installation method) are required for installation. They are not included in the package.

2.2.1 Wall mounting

A VESA mount and mounting kit (not included) are required for wall mounting. The following installation is described using the PMBWMK mount as an example.

NOTE. The Multiboard Light+ interactive panel can only be mounted on solid wood, brick, concrete walls or solid wood beams.

WARNING! Installation involves drilling into the wall. To avoid emergencies, first make sure that there is no electrical wiring, water pipes, heating pipes, etc. in the place of direct installation in the wall.

Step 1. Place the interactive panel horizontally, with the screen facing down, on a flat, clean surface covered with a soft cloth.

Step 2. Bolt the vertical guides to the interactive panel body as shown in the figure below.

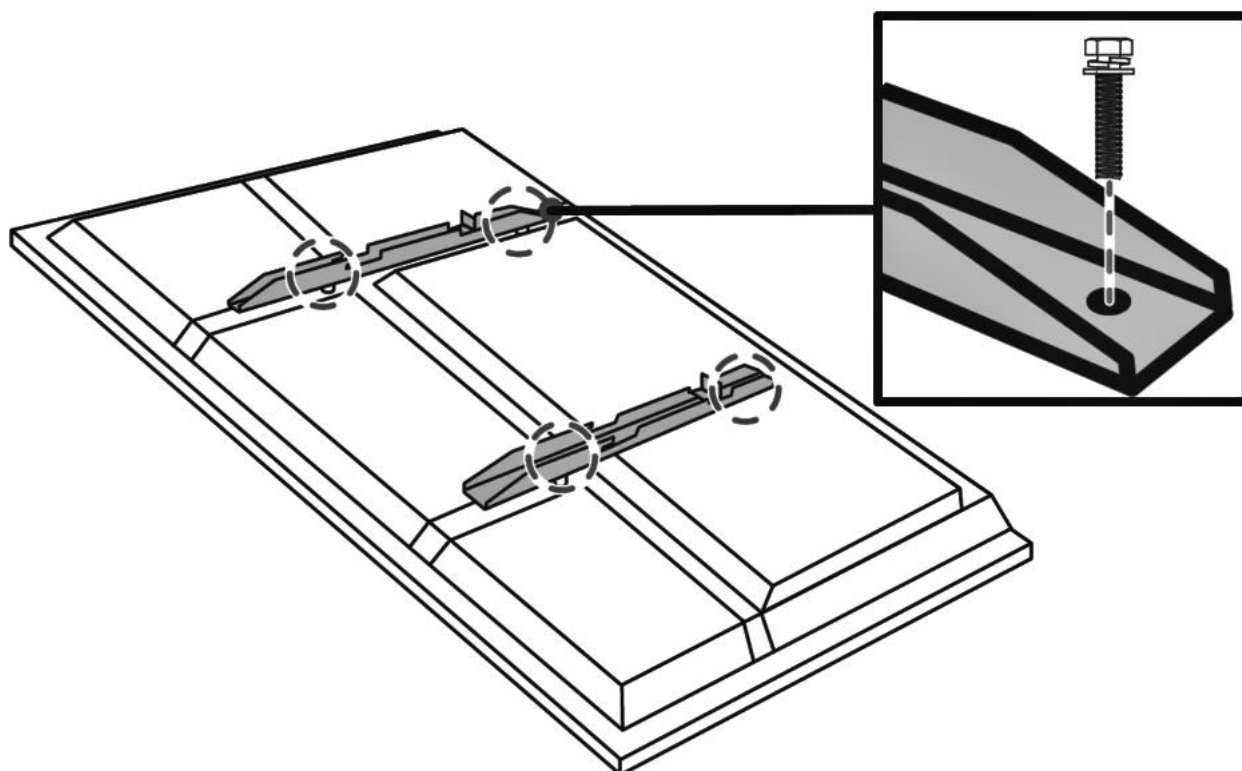


Figure 12 – Fixing the vertical guides

Make sure that the bolts are firmly tightened and fully seated in the guides and in the mounting holes on the Multiboard Light+ housing.

Step 3. Secure the mounting frame to the wall with screws and dowels. To do this:

A. Place the mounting frame against the wall at the chosen installation location. Check the accuracy of the positioning with a spirit level (not included). The frame should be parallel to the floor, with no tilting. While holding the frame in position, make drill marks on the wall through the mounting holes (e.g., with a pencil).

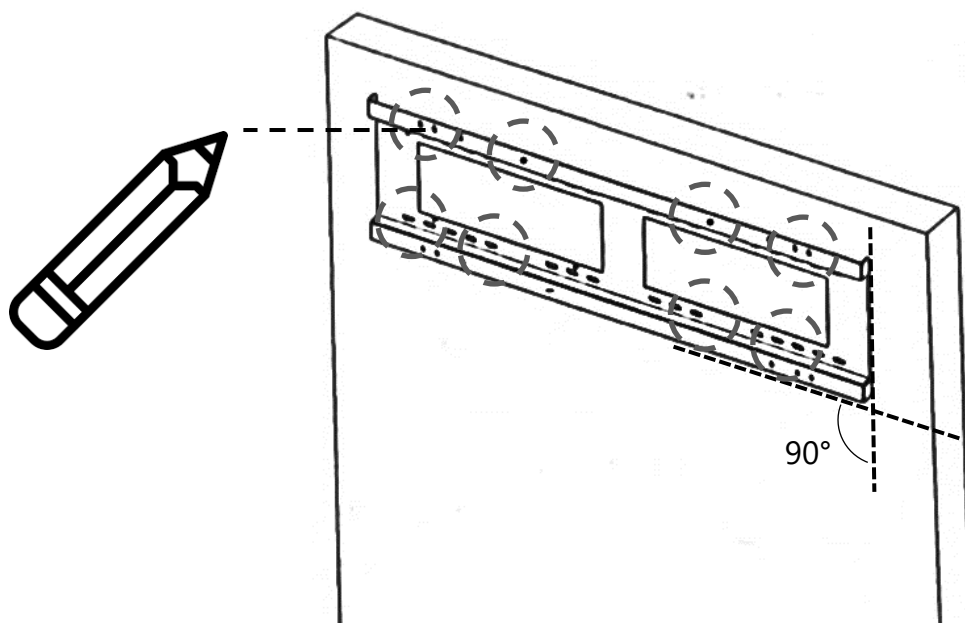


Figure 13 – Marking for drilling holes in the wall

B. Drill holes in the wall in the marked locations. The depth of the holes must match the length of the dowels in the mounting kit. Insert the dowels completely into the drilled holes (see the figure below).

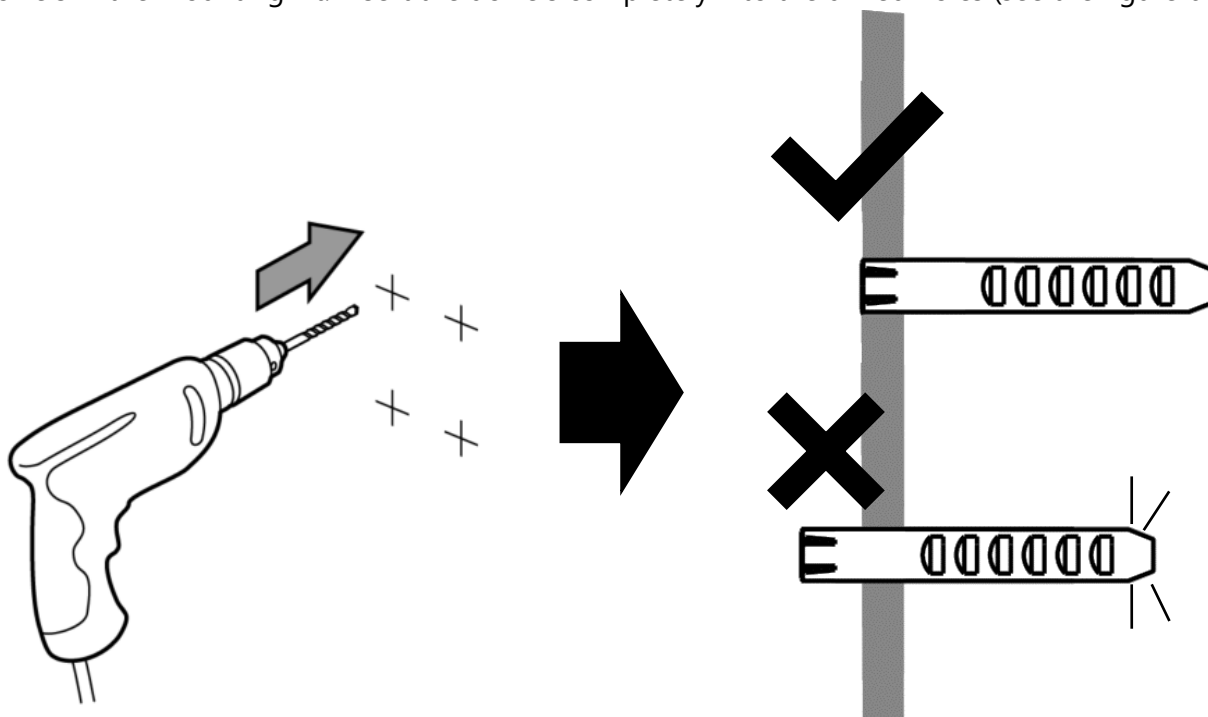


Figure 14 – Drilling holes in the wall and inserting dowels

C. Place the mounting frame against the wall so that the mounting holes in the frame line up with the holes drilled in the wall. Holding the frame in this position, screw the screws into the dowels, sealing the connection with washers (e.g., with a screwdriver or electric screwdriver) (see the figure below). Make sure that the screws are tightened securely.

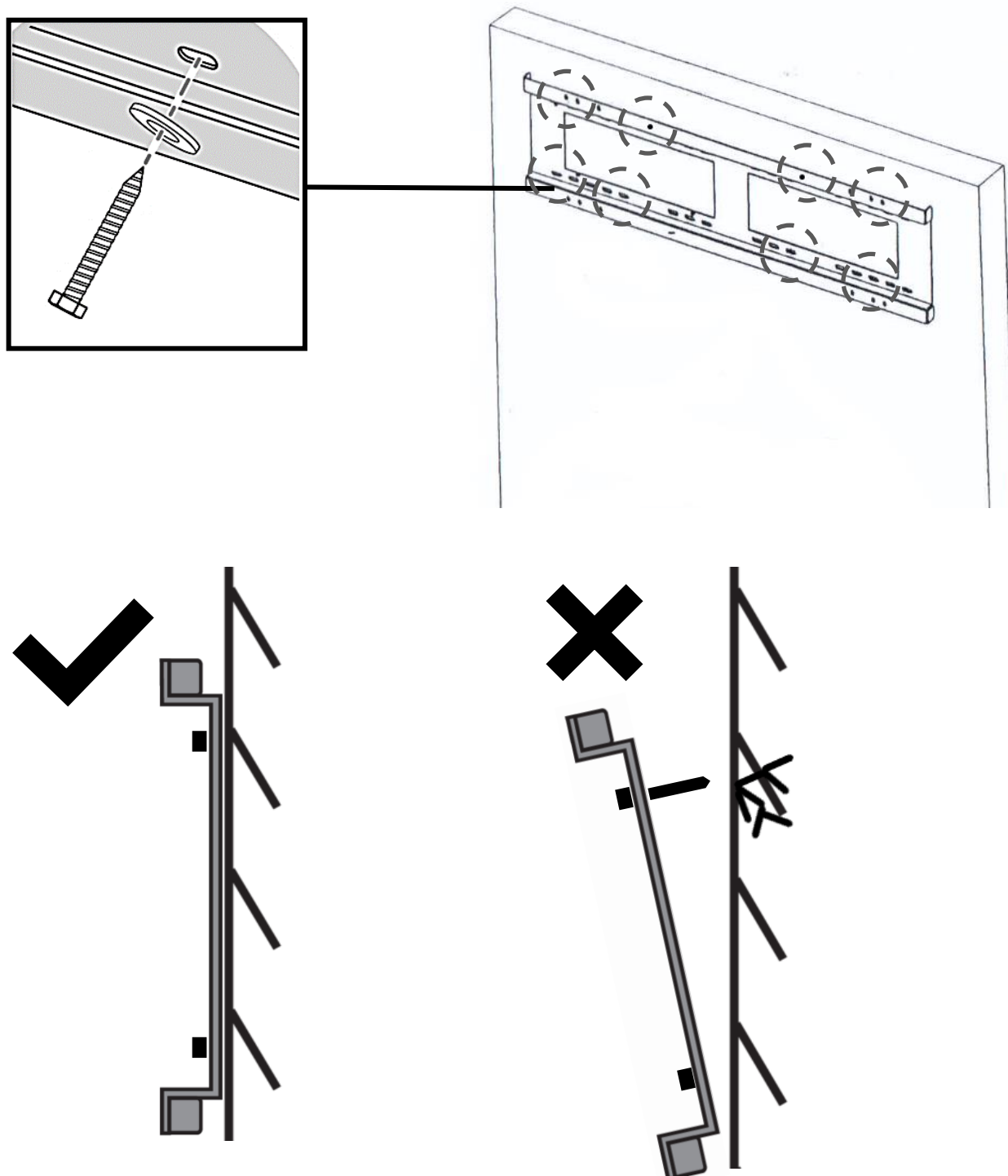


Figure 15 – Fixing the mounting frame to the wall

Step 4. Install the interactive panel by aligning the vertical guides with the mounting frame (see the figure below). To evenly distribute the weight of the interactive panel on the wall mount, observe symmetry when mounting it.

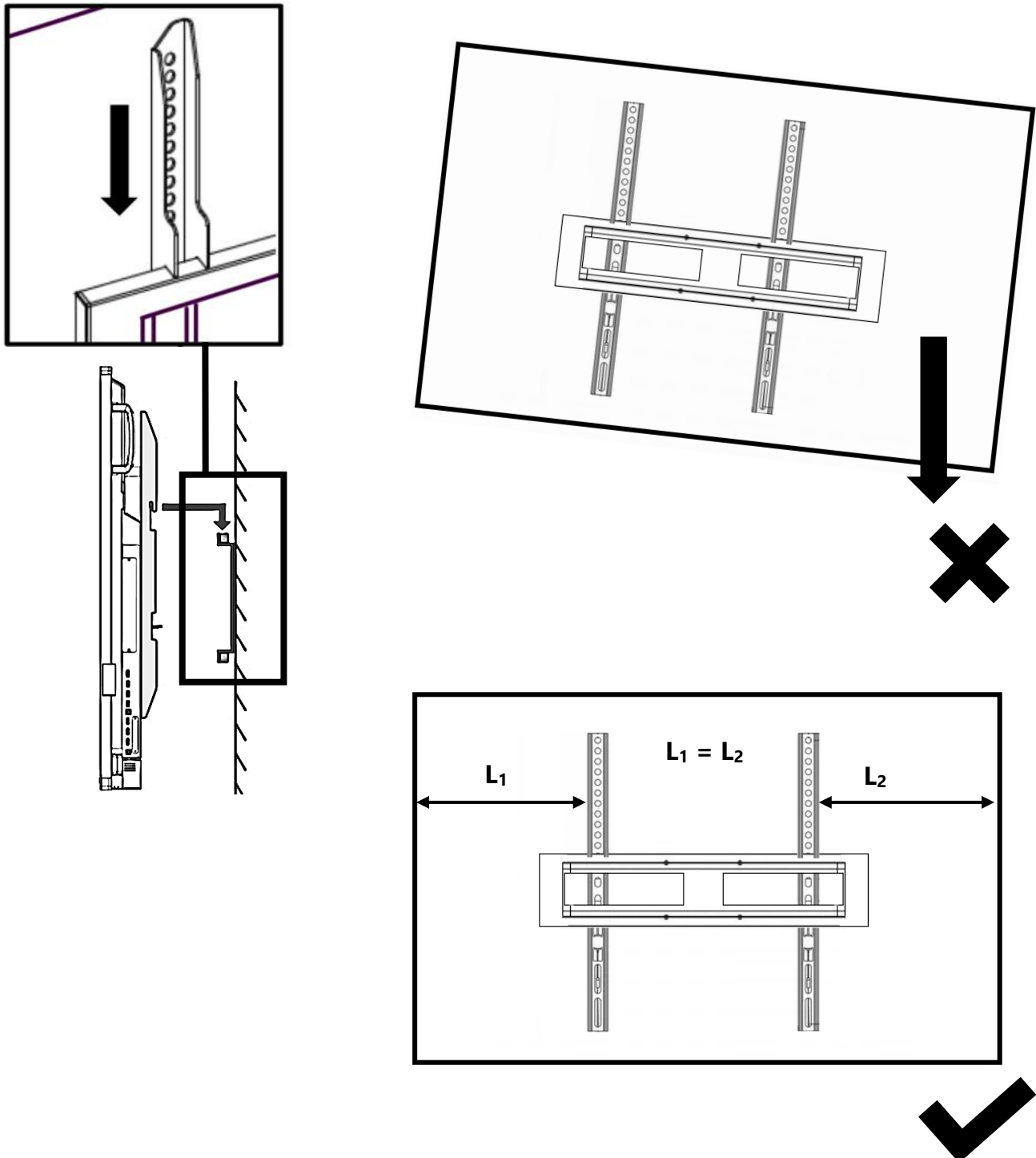


Figure 16 – Installing the interactive panel on the wall mount

Step 5. Additionally fix the device to the mounting frame. To do this, screw the bolts with spring washers into the holes on the flat tabs of the vertical guides (see figure below). The bolts should run into the surface of the mounting frame. This is necessary to avoid displacement of the interactive panel as a result of external influences. Make sure that the bolts are tightened securely.

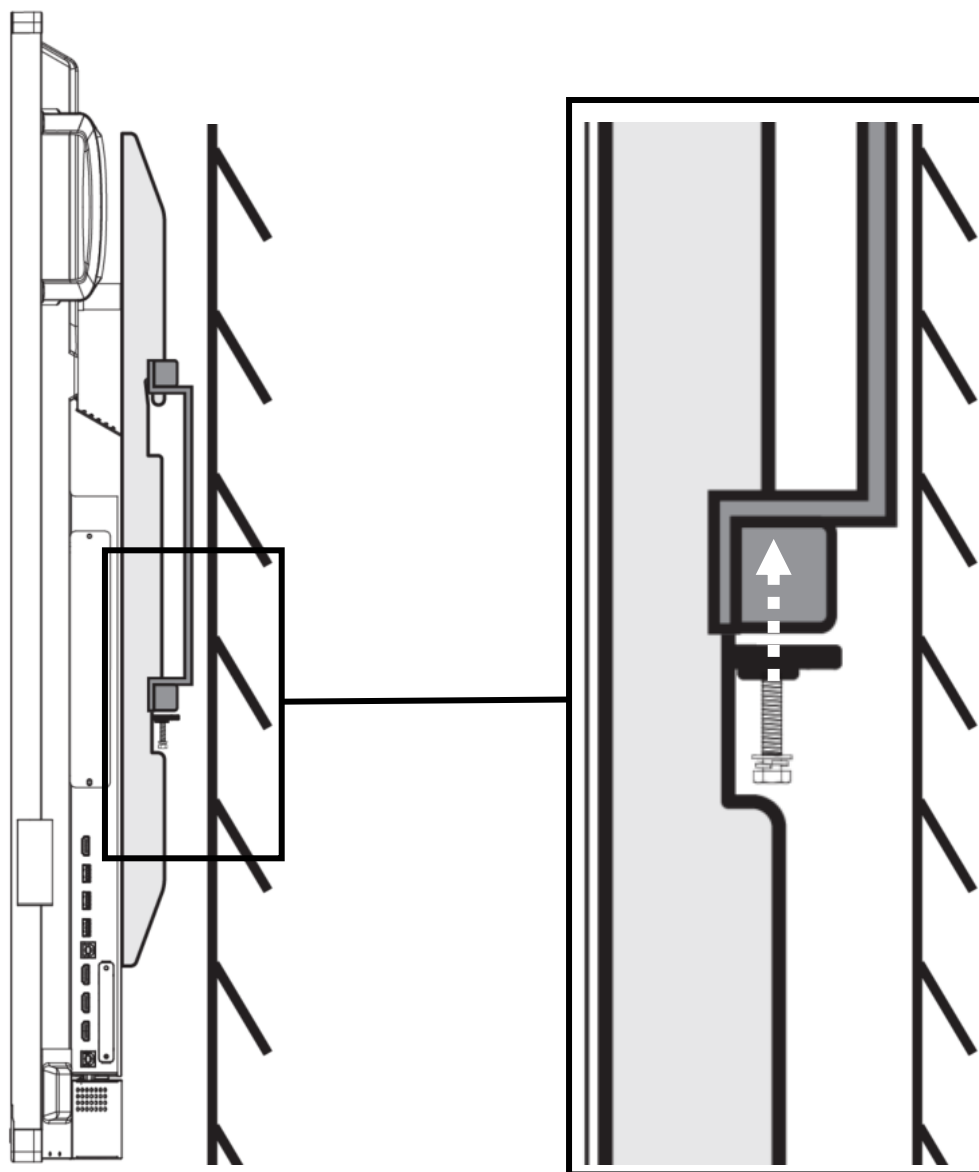


Figure 17 – Additional fixation

NOTE. The wall mount is not included. Before you purchase the mount, make sure it conforms to the VESA standard (see also Technical specifications in this user manual).

2.2.2 Installation onto the stand for interactive panels

WARNING! It is recommended to use a stand designed for installation of interactive panels. For the list of stands recommended by the manufacturer, see prestigio-solutions.com/multiboard. When using a stand that is not one of the recommended models, always make sure that its size and load capacity match that of the Multiboard Light+.

The interactive panel stand should be unpacked and assembled according to the instructions included with it. Make sure that the bolts and nuts are securely tightened.

After placing the stand on a flat, stable surface, fix it in place as required by the model (for example, lock its wheels) and only then proceed to install the interactive panel. For installation on a floor stand, Multiboard Light+ requires a VESA standard wall mount (e.g., PMBWMK). It is not included in the package.

Step 1. Place the interactive panel horizontally, with the screen on a flat, clean surface covered with a soft cloth.

Step 2. Bolt the vertical guides to the interactive panel housing (as in subparagraph 2.2.1 above). Make sure that the bolts are firmly tightened and fully seated in the guides and in the mounting holes on the Multiboard Light+ housing.

Step 3. Secure the mounting frame to the stand using bolts, nuts, and washers as shown in the figure below (using the PMBST01 stand model as an example).

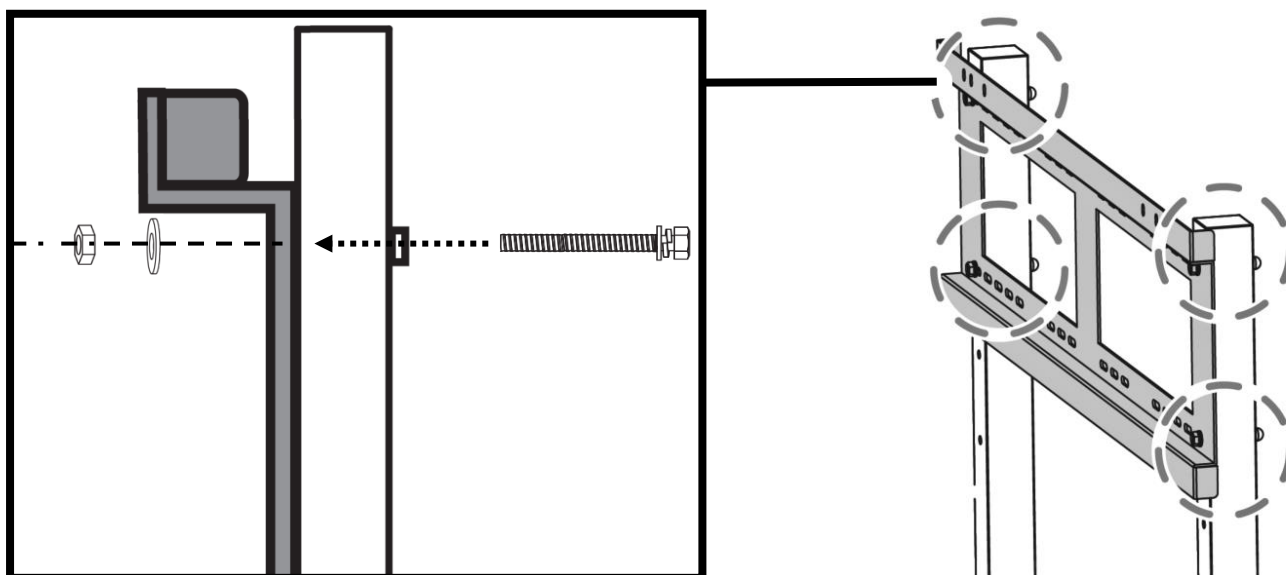


Figure 18 – Installing the mounting frame to the stand

Step 4. Mount the interactive panel to the stand, aligning the vertical guides with the mounting frame (see the figure below). To distribute the weight of the interactive panel evenly on the stand, observe symmetry when mounting it. Make sure that the bolts and nuts are securely tightened.

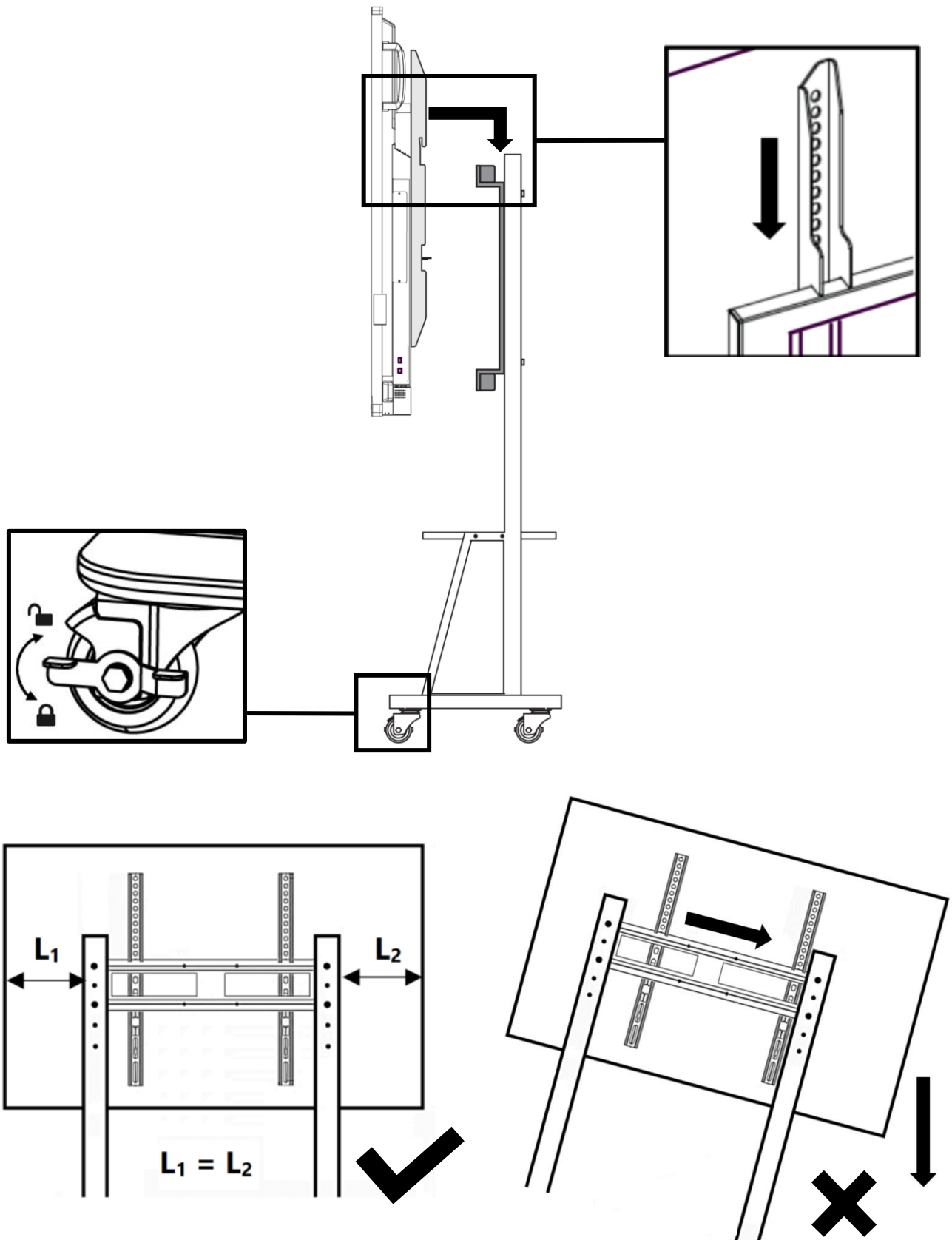


Figure 19 – Installing the interactive panel onto the stand

Step 5. Additionally fix the device to the mounting frame with the bolts from the mounting kit (as in subparagraph 2.2.1 above). Make sure that the bolts are tightened securely.

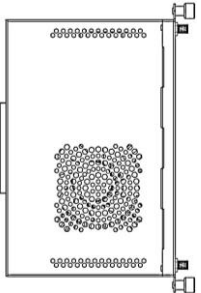
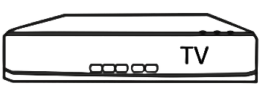
3 Connecting devices

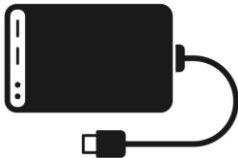
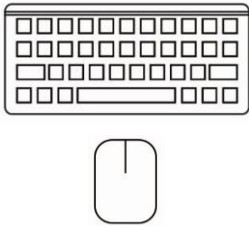
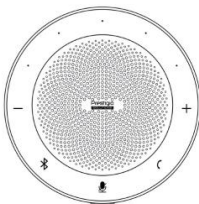
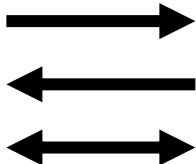
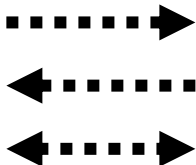
The Multiboard Light+ has a wide range of connectors for interfacing with various devices. It is also possible to connect devices wirelessly.

WARNING! For your safety and to protect your device, do not plug it in before connecting the cables.

Connect external devices according to the connector assignment on the Multiboard Light+.

Table 10 – Symbols used to describe operation when connecting devices

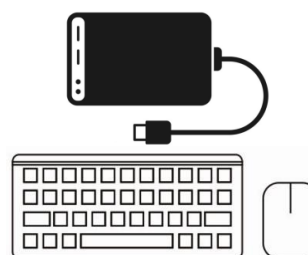
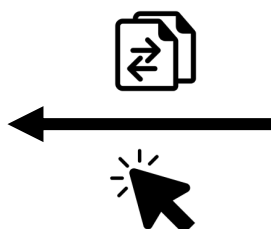
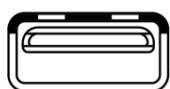
Connectable devices	
	External computer
	Internal computer (PC). Compatible models: PMB528K001, PMB528K002, PMB528K003, PSMB528K001, PSMB528K002
	Mobile devices (smartphone, tablet)
	Television (TV) decoder
	TV set, player, video recorder
	External monitor

	External data storage
	SD memory card (SD card)
	Data input devices (keyboard, mouse)
	External audio output devices (headphones, speakers)
	Network router
	Communication device (speakerphone)
Transmitted signal	
	Directions of signal transmission between devices in a wired connection (outgoing, incoming, two-way transmission)
	Directions of signal transmission between devices in a wireless connection (outgoing, incoming, two-way transmission)

	Transferring files for processing and storage
	Digital audio signal
	Digital video signal
	Analog audio signal
	Analog video signal
	Converting analog signal to digital
	Control signal for interactive panel
	Control signal for external computer
Power supply	
	Charging the battery and powering external devices

3.1 Front panel connectors

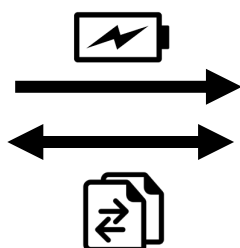
USB Type A



External input devices (e.g., keyboard, mouse) are connected to control the operation of the Multiboard Light+. When portable drives are connected, data is read and exchanged through the interactive panel file manager.

NOTE. By default, the connector works with the Android OS. When you select an internal PC as the signal source (Windows OS) the connector automatically switches to it.

USB Type C



Mobile devices are powered (up to 20 V, 3.0 A) and their batteries are charged using Power Delivery technology. Data is exchanged with devices that support data transfer between DisplayPort and USB Type C interfaces.

NOTE. Correct data transfer as applied to mobile devices is not guaranteed for all brands.

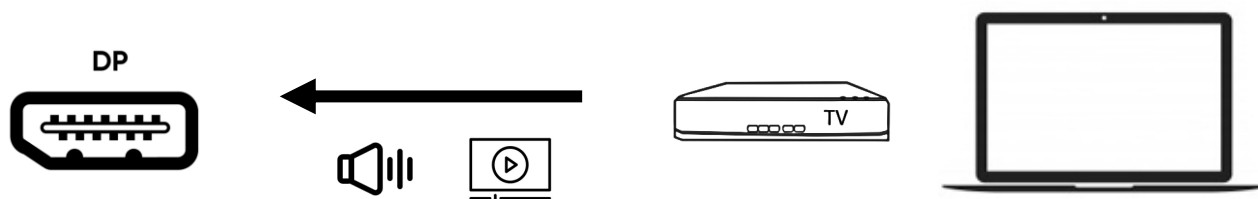
3.2 Left panel connectors

USB Type B
TOUCH-USB

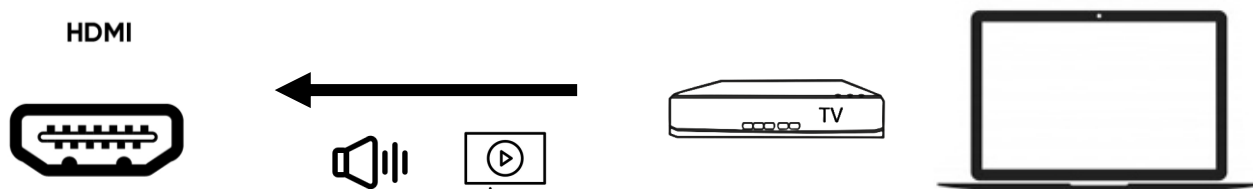


When connected to a computer, its menu is displayed on the Multiboard Light+ screen. The computer in this case is controlled by touching the elements on the screen of the interactive panel. The touch signal from the interactive panel is transmitted to the computer.

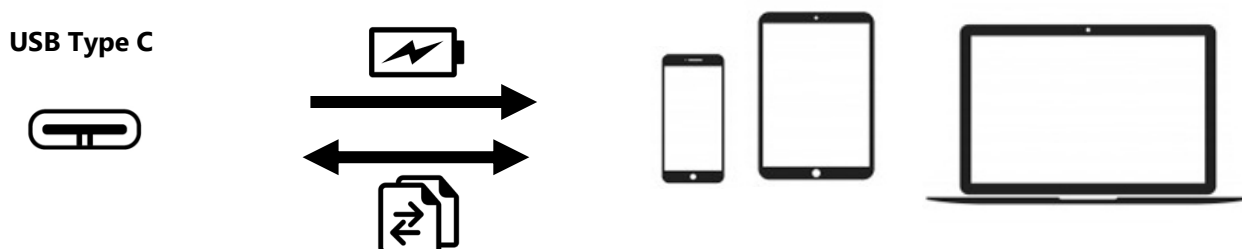
NOTE. You need simultaneous connection via HDMI interface for audio and video signal transmission.



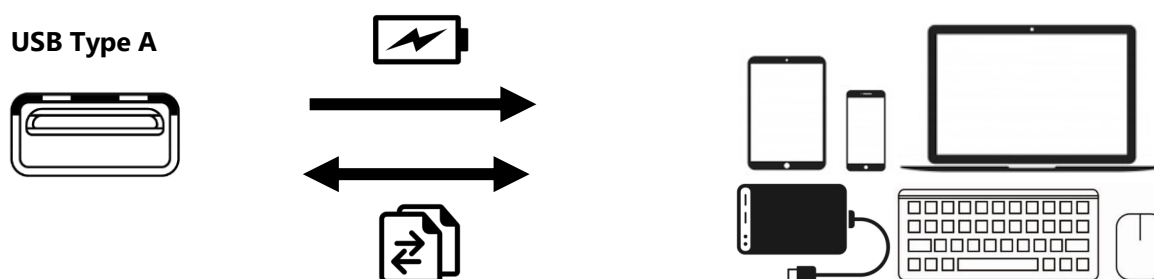
High-definition digital audio and video (up to 4K at 60 Hz) is transmitted from an external device (e.g., computer, TV decoder) and played back on the interactive panel.



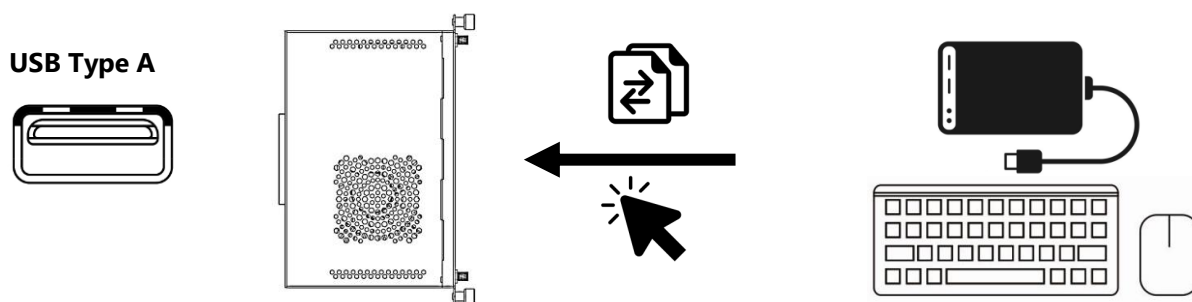
High-definition digital audio and video (up to 4K at 60 Hz) is transmitted from an external device (e.g., computer, TV decoder) and played back on the interactive panel.



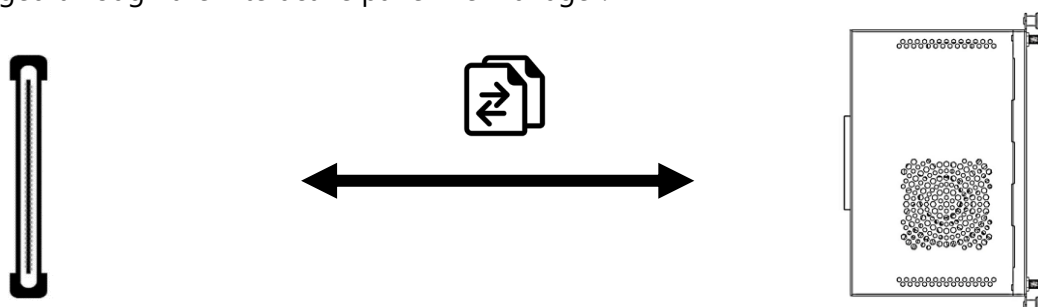
Mobile devices are powered (up to 5.0 V, 3.0 A) and their batteries are charged using Power Delivery technology. Data is exchanged with devices that support data transfer between DisplayPort and USB Type C interfaces.



Mobile devices are powered (up to 5.0 V, 0.9 A) and their batteries are charged using Power Delivery technology. The connection of external input devices (e.g., keyboard, mouse) is made to control the operation of the Multiboard Light+. When portable drives are connected, data is read and exchanged through the interactive panel file manager.

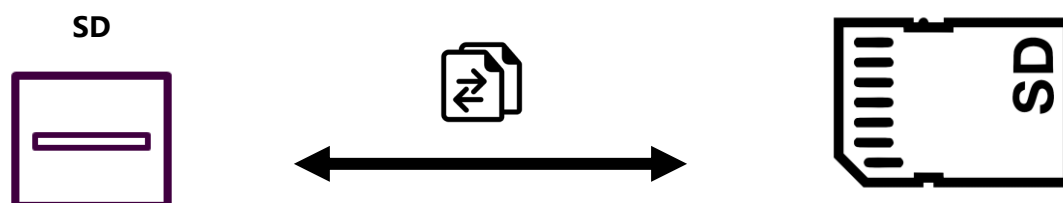


External input devices (e.g., keyboard, mouse) are connected to control the operation of the Multiboard Light+ with an internal PC (Windows OS). When portable drives are connected, data is read and exchanged through the interactive panel file manager.



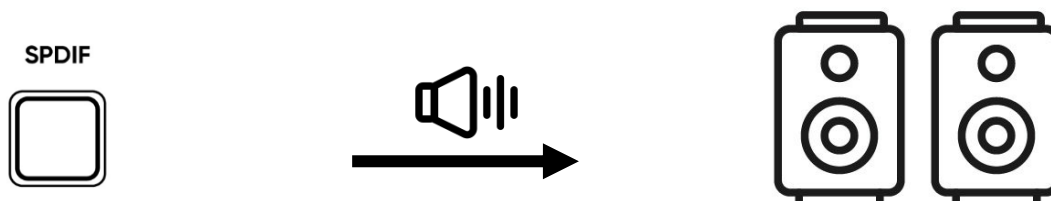
The internal PC is connected to extend the technical capabilities of the interactive panel (e.g., to use Windows-compatible software).

3.3 Bottom panel connectors



The SD card is used to expand the memory capacity of the interactive panel. The file exchange goes through the file manager of the interactive panel.

NOTE. Cards up to 128 GB are supported. Correct operation is not guaranteed for separate brands' cards.



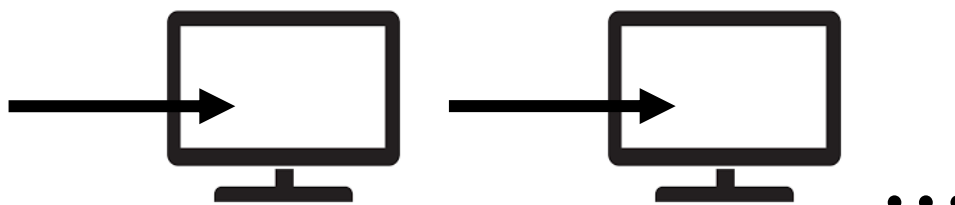
The digital audio signal is transmitted from the Multiboard Light+ to external loudspeakers equipped with a S/PDIF connector without conversion to analog signal.

AUDIO OUT



The analog audio signal from the Multiboard Light+ is transmitted to external audio output devices (e.g., headphones, speakers) without conversion to digital signal.

HDMI OUT



The high-definition digital audio and video signal is transmitted to an external computer or monitor, then, via HDMI, to the next computer or monitor, and so on.

MIC IN



The analog audio signal from the external microphone is transmitted to the Multiboard Light+ without conversion to digital signal.

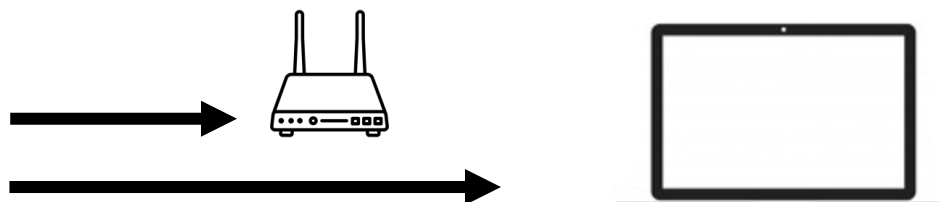
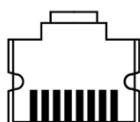
RS232



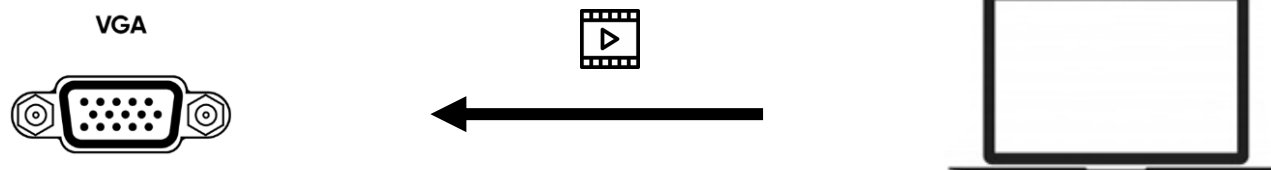
When connected to a computer, the Multiboard Light+ menu is displayed on its screen. The interactive panel in this case is controlled by input devices connected to the computer (keyboard, mouse).

NOTE. You need simultaneous connection via HDMI interface for audio and video signal transmission.

LAN



The LAN connectors are of the same functionality. If one connector is connected by cable to a router, the other can be connected to an external device (e.g., computer, other interactive panel). In this case, the Multiboard Light+ and the external device form a local network that can be simultaneously connected to the global Internet.



The analog video signal from an external device (e.g., a computer) is transmitted to the Multiboard Light+ without conversion to digital signal.

NOTE. Simultaneous connection via the AUDIO IN interface for audio signal transmission is required.



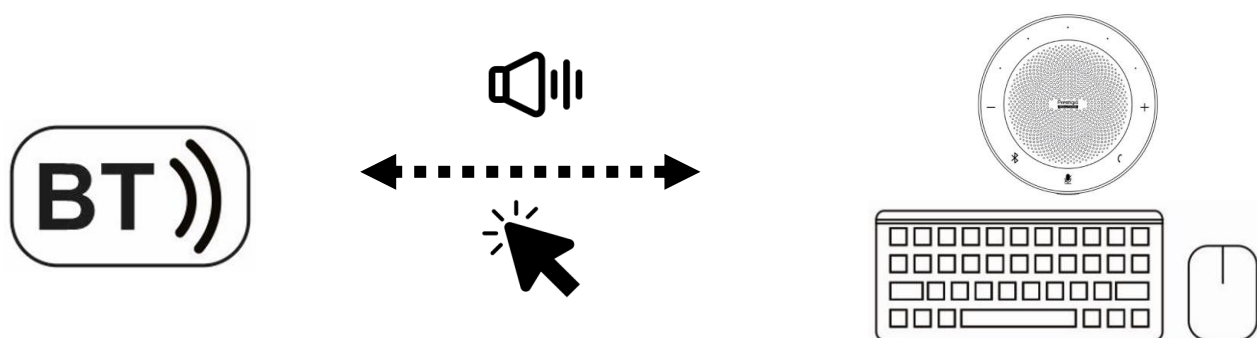
The analog audio signal from an external device (such as a computer) is transmitted to the Multiboard Light+ without conversion to digital signal.

NOTE. Signal quality depends on cable characteristics, so use original certified cables.

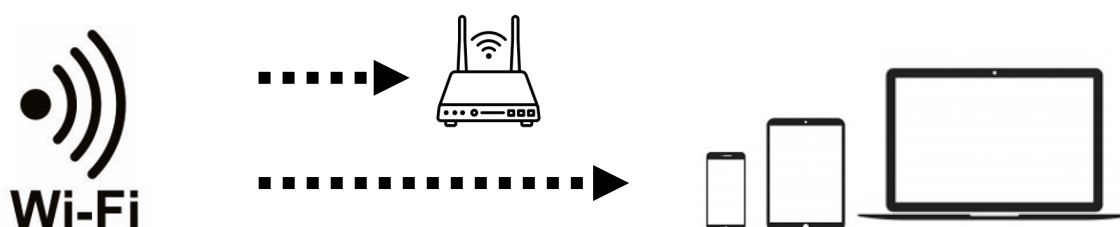
NOTE. To ensure correct operation of the interactive panel, do not use all USB connectors to charge external devices at the same time.

NOTE. To update the software using a flash drive, use a USB 2.0 flash drive and the USB 2.0 connector on the side panel of the device.

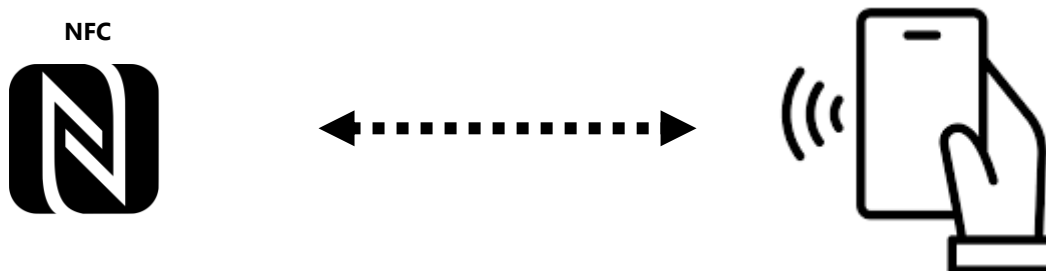
3.4 Wireless connection



Wireless input devices (keyboard, mouse) are connected to the Multiboard Light+ to control the operation of the interactive panel. Communication devices (speakerphone) that support BT connection are connected for conference calls. BT access radius depends on the characteristics of the devices.



Multiboard Light+ connects to a public Wi-Fi network to communicate with other users and devices. Access is set up through the menu (see below). Also, the interactive panel can serve as a Wi-Fi access point for devices in the same room as the panel. The radius of access over Wi-Fi depends on the characteristics of the devices.



Contactless data transfer via NFC * technology allows users to log in without entering a password from the screen.

* See also "Glossary" section.

4 Basic operations

4.1 Turning on and off

To operate the Multiboard Light+, use a power supply with 100–240 V AC. Use the toggle switch on the bottom of the device to turn the power on and off. The toggle switch has two positions: **I** – "ON", **O** – "OFF".

The interactive panel saves the picture and sound settings before shutting down. These parameters will be used the next time you turn it on.

NOTE. If the interactive panel is equipped with an internal PC (not supplied) and receives a signal from it, the PC will start automatically when the panel is turned on. Before you turn off the interactive panel, first disconnect the internal computer from the Windows Start menu – use the touch screen or an external input device (e.g., keyboard, mouse) to do this.

4.2 Standby mode

The  ("ON/OFF") button on the interactive panel and the similar  button on the RC unit allow you to put the panel in standby or operating mode with a single press. The power toggle switch (at the bottom of the housing) must be in position **I** ("ON").

If the Android interface is running on the Multiboard Light+ screen, there is no automatic switch to standby mode. If the Windows interface is running on the screen (internal PC is connected and running), the interactive panel defaults to standby mode after 15 minutes of no input signal and no Windows activity. It is also possible to adjust these parameters in the menu.

4.3 Android Home page

The Home page opens by default when you turn on the interactive panel. You can switch to the home page from another interface by pressing the  ("Home page") button on the RC unit. It is also possible to navigate using the sidebar menu (see below). The Home page displays the time, date, connected storage media, network connection information, shortcuts to the file manager and installed applications.

4.4 Sidebar menu

To open the sidebar menu, tap the icon  ("Sidebar menu") at the right or left edge of the screen (see the figure below).

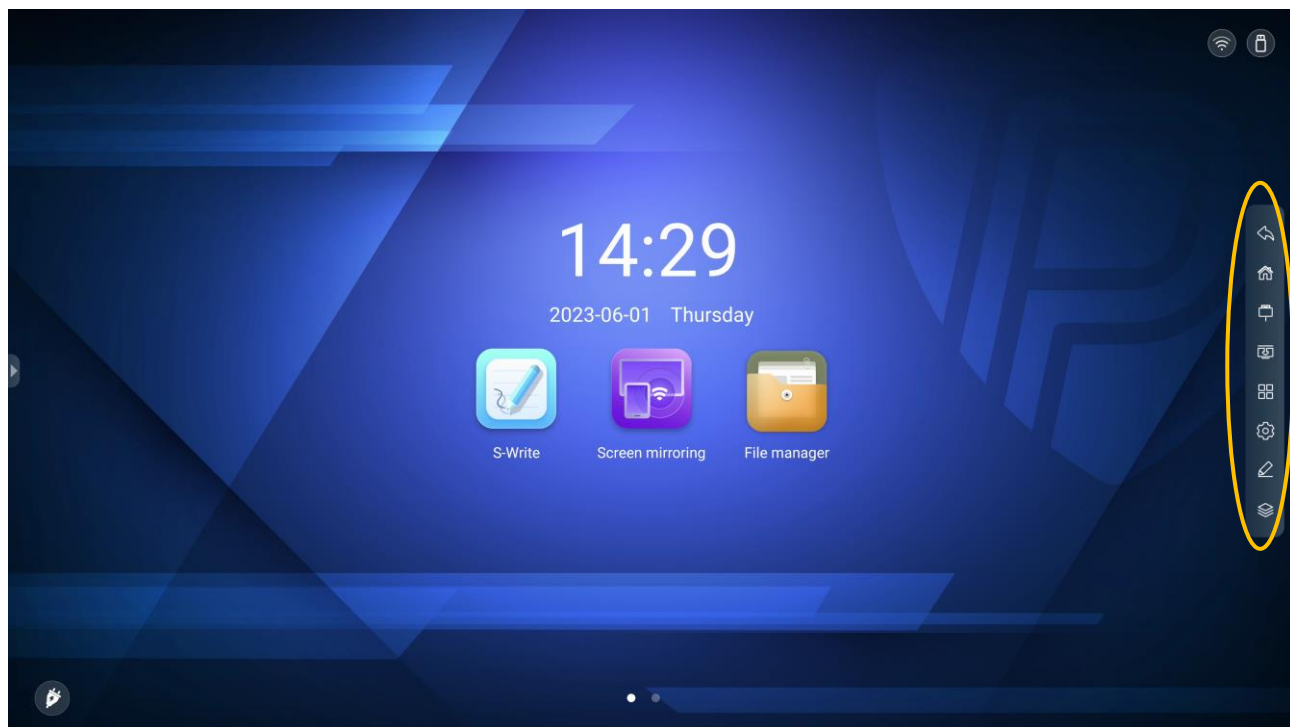


Figure 20 – Home page and sidebar menu

The icons in this menu are used to perform basic Multiboard Light+ operations.

Table 11 – Sidebar menu icons' purpose

	A step back in the menu
	Access the Android Home page
	Access the signal source menu
	Shift the workspace of the screen down to access the top
	Access screen utilities (timer; eye protection; calculator; voting; screenshot; video recording; stopwatch; touch control lock; highlighting a specified area; touch control sound)
	Access the system settings menu
	Create notes on top of the image on the screen
	Display and manage the list of applications in use

4.5 Signal sources

After turning on the interactive panel, when the operating system interface (Android Home page) appears on its screen, you can select a signal source connected to the Multiboard Light+. The signal sources are switched in the following ways:

- with the RC unit. Press  ("Signal sources") to display the signal source menu. From the "Source" tab, press the navigation buttons , , ,  to select a signal source (see figure below). After selecting the desired source, press the **OK** ("Confirmation") button. The device will switch to the selected input source;
- using the touch screen. Access the sidebar menu by tapping the icon  at the right or left edge of the screen. Next, tap the  ("Signal source menu") icon, and the signal source menu will appear on the screen. From the "Source" tab, select the signal source by touching its icon on the touch screen. The device will switch to the selected input source.

You can navigate between options and select the desired options using both touch control (touching or dragging menu items on the screen) and remote control (navigation buttons , , ,  and **OK** ("Confirm") button).

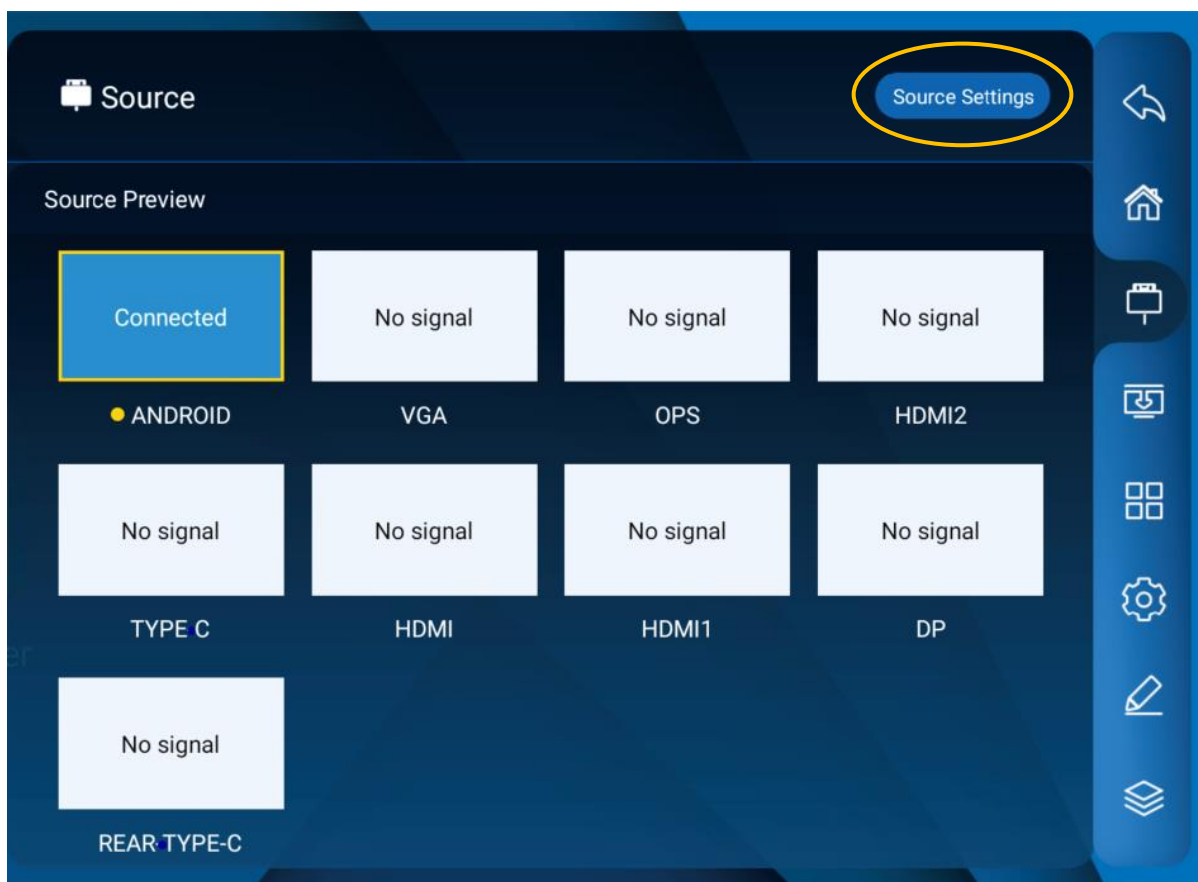


Figure 21 – Signal Source Menu

In the Signal Source Menu, you can configure additional settings. To do this, press the "Source settings" button (see the figure above).

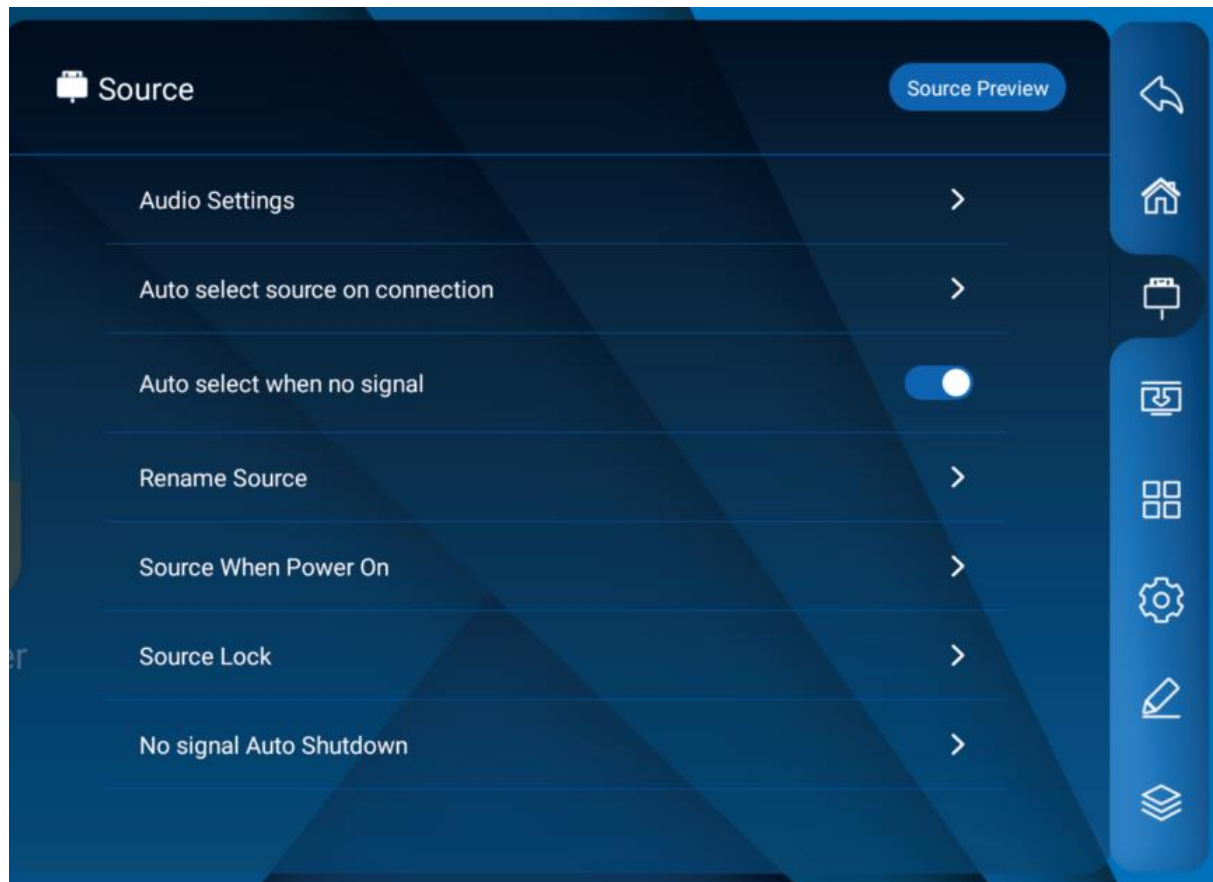


Figure 22 – Source setting menu

Here you can configure the following settings:

- sound settings;
- automatic selection of the signal source when it is connected;
- automatic source selection in the absence of a signal;
- source name change;
- a specific source autorun when turning on the interactive panel;
- blocking a particular source;
- setting the screen to turn off after a certain period of inactivity, as well as the period of inactivity after which the interactive panel will go into standby mode.

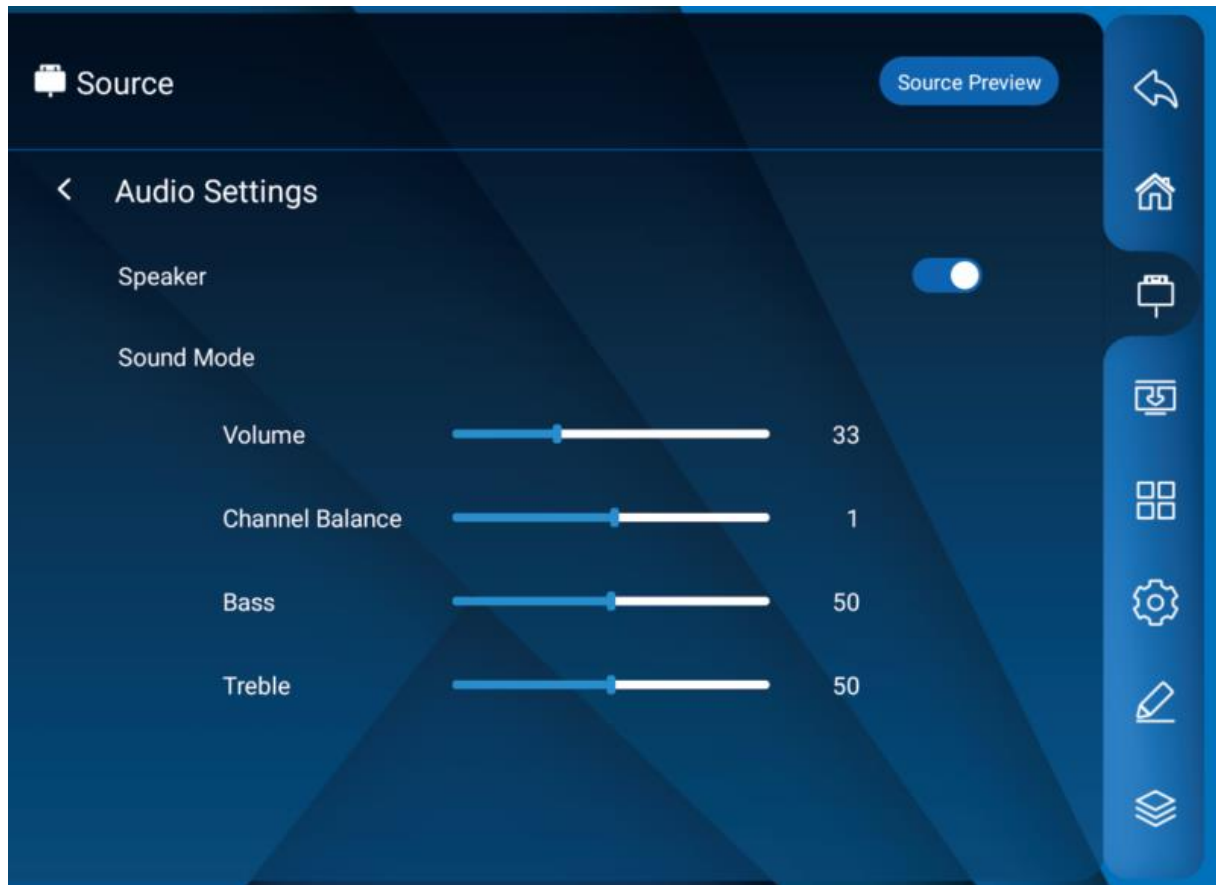


Figure 23 – Audio setup menu

For example, in the "Audio settings" tab (see the figure above), you can configure the following settings:

- speakers ON/OFF
- volume;
- right and left channels balance;
- the level of low and high frequencies.

5 User setup

The interactive panel needs its parameters to be configured correctly, to meet the maximum of user needs. The System Settings Menu sets and displays all the main operating parameters of the Multiboard Light+:

- network connection;
- connected devices control;
- desktop layout;
- date, time;
- interface language;
- power settings;
- device and data security
- control;
- device information.

To open this menu, tap the  ("System settings menu") icon in the sidebar menu. You can also open this menu by pressing the  ("Main menu") button on the RC unit. Menu operations are performed by tapping the items on the touchscreen or pressing the buttons on the remote control (navigation buttons , , , , **OK** ("Confirmation") button). Go through the menu and configure the settings you need based on the specific use of the Multiboard Light+ in your activity (see paragraphs 5.1–5.6 below).

5.1 Network settings

Click the "Network settings" tab in the system settings menu.

Wireless network setup

Step 1. Select the "Wi-Fi" tab in the network settings window.

Step 2. Activate the connection by moving the switch on the screen to the right. The list of networks available for connection will appear on the screen.

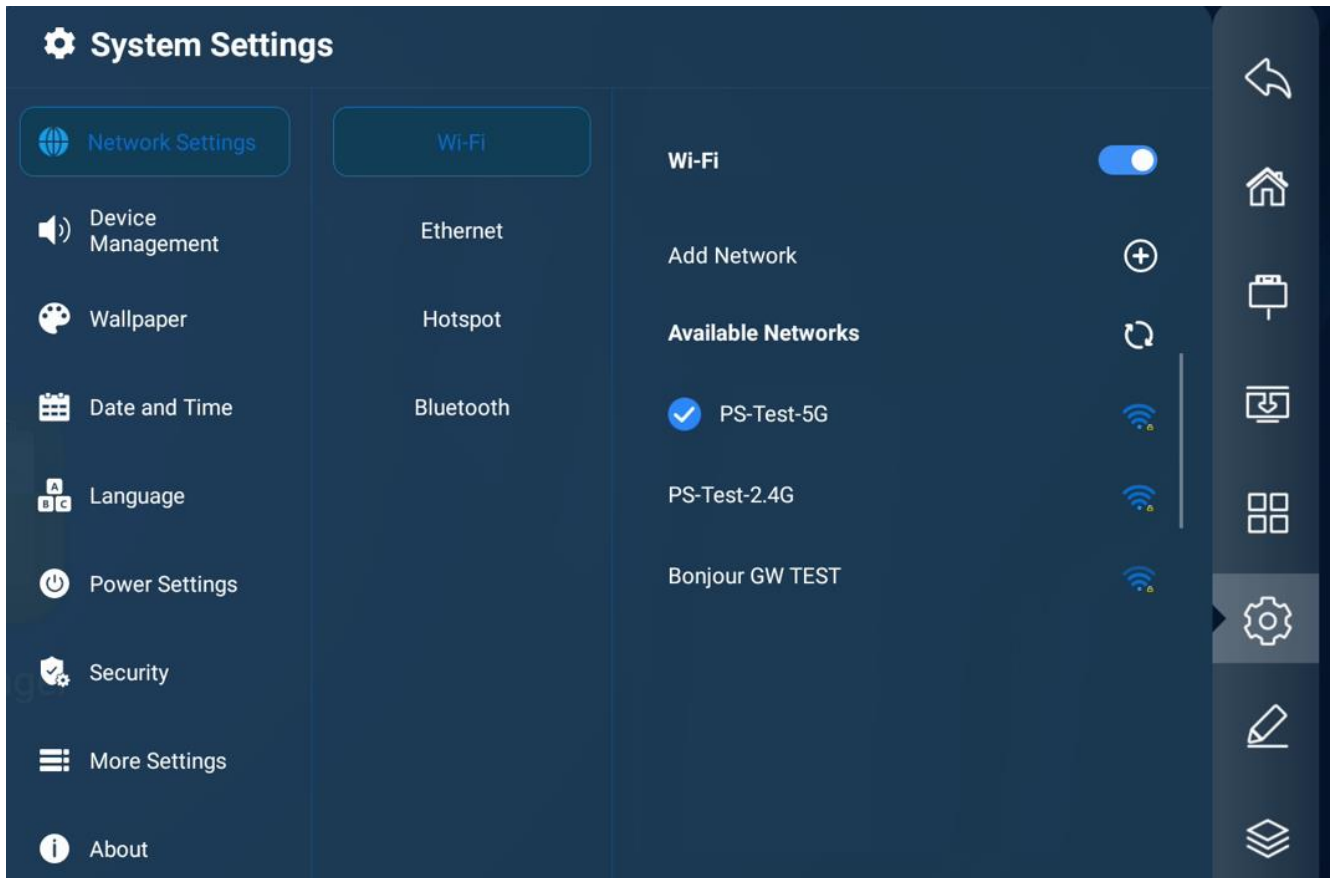


Figure 24 – Wireless connection settings

Step 3. Select your desired network from the list, enter the password to connect to it, and then tap "Connect".

Wired network setup

Connect the interactive panel to the network router with a LAN cable (see section 3 above). After entering the menu, perform the following steps:

Step 1. Select the "Ethernet" tab in the network settings window.

Step 2. Activate the connection by moving the switch on the screen to the right.

Step 3. In the "IP Settings" line, select the type of IP address:

- dynamic (DHCP) – the device will automatically obtain an IP address and connect to the network;
- static – you should manually enter the IP address, gateway, network prefix length, DNS address.

Step 4. Tap "Save" to connect to the network.

Setting up an access point (hotspot) for a wireless connection

Multiboard Light+ can serve as a Wi-Fi access point for devices in the same room as the interactive panel. To use Multiboard Light+ as an access point, follow these steps:

Step 1. In the network connection settings window, select the "Hotspot" tab.

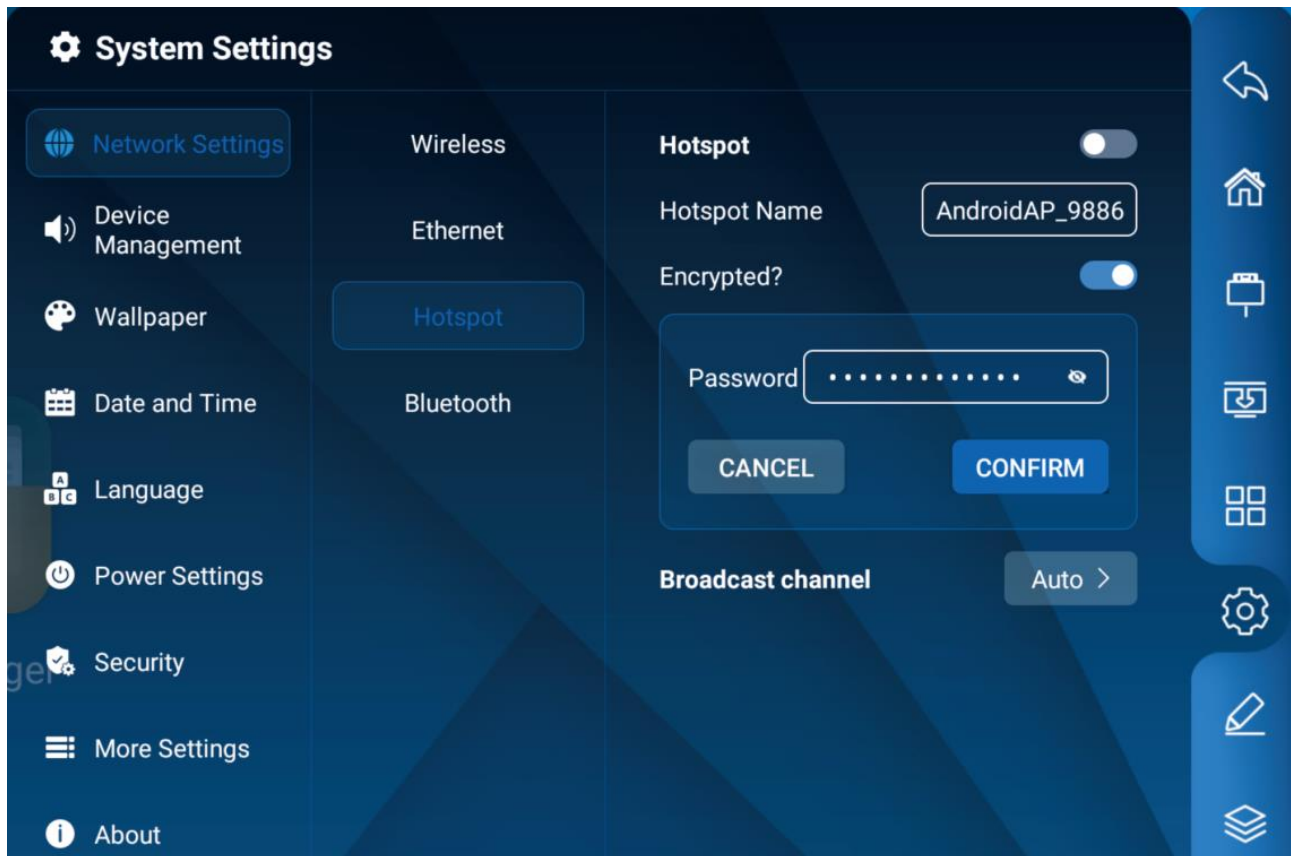


Figure 25 – Access point settings

Step 2. Activate the access point by moving the switch on the screen to the right.

Step 3. Enter the name of the access point in the text field (at first, the system uses the default name – for example, "AndroidAP_9886", but you can change it).

Step 4. If it is an open network, you do not need to set a password, but in this case, any device that detects your network can connect to the Multiboard Light+ Wi-Fi network. When encrypting, you must set a secure password. To connect an external device to the created network, you will need to enter the correct password.

Step 5. After selecting encryption, the password will be generated automatically in the "Password" line, but you can also set it manually.

Step 6. Tap "Confirm" to save the settings (or "Cancel" to reset them). The network will then be detected by other Wi-Fi enabled devices within their search range (depending on the device).

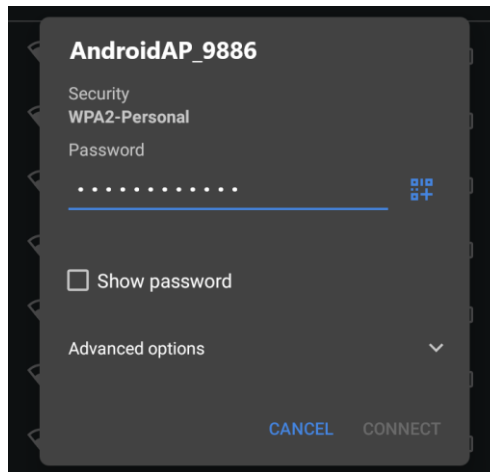


Figure 26 – Connecting to an access point (using a smartphone as an example)

NOTE. In order to protect your data, set the password as strong as possible. It must contain at least 10 characters: Latin letters (A-z, including at least one uppercase letter), Arabic numerals (0–9) and punctuation marks. Avoid simple sequences, common words (e.g., "12345_Qwerty", "Password!123").

BT setup

Step 1. In the network connection settings window, select the "BT" tab.

Step 2. Activate the function by moving the switch on the screen to the right.

Step 3. Select a device with BT enabled for pairing.

5.2 Device management

Click the "Device management" tab in the system settings menu.

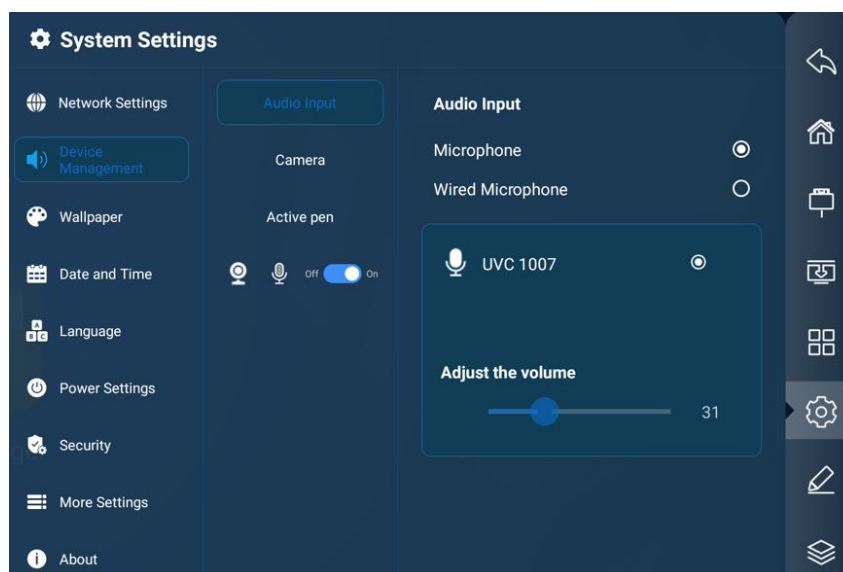


Figure 27 – Device management

In this tab you can customize the operation of the internal and external microphones and cameras, as well as the multifunction pen (optional).

5.3 Desktop layout

Click the "Wallpapers" tab in the system settings menu.

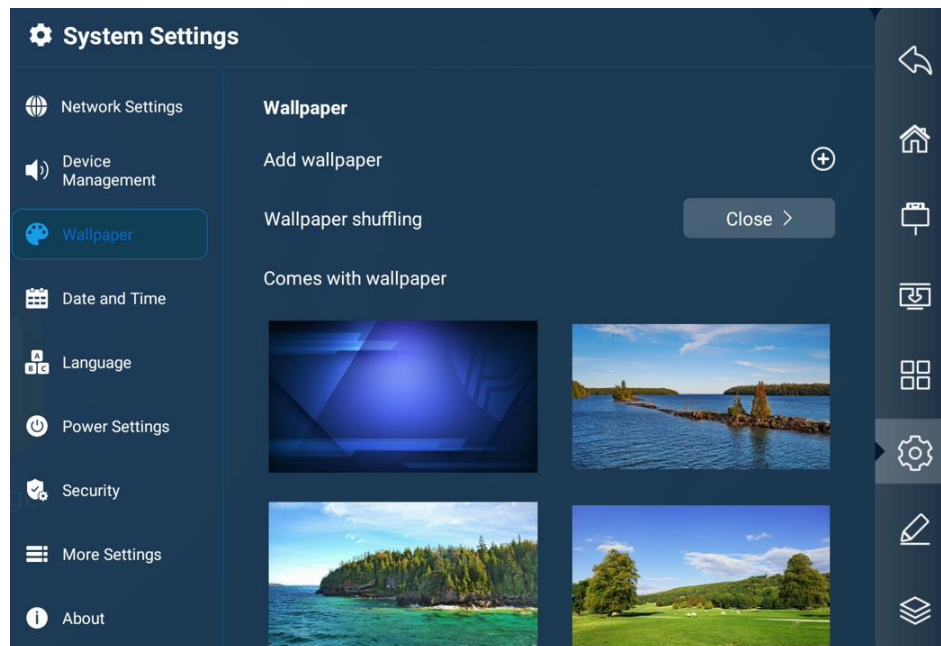


Figure 28 – Desktop wallpaper settings

In this tab you can set the wallpaper for the desktop, customize the change of images.

NOTE. The images for the wallpaper and lock screen must be in PNG format, with a recommended resolution of 1920×1080 or 3840×2160. For successful import and smooth operation of the system, you should not choose a file too large.

5.4 Date and time setting

Click the "Date and time" tab in the system settings menu.

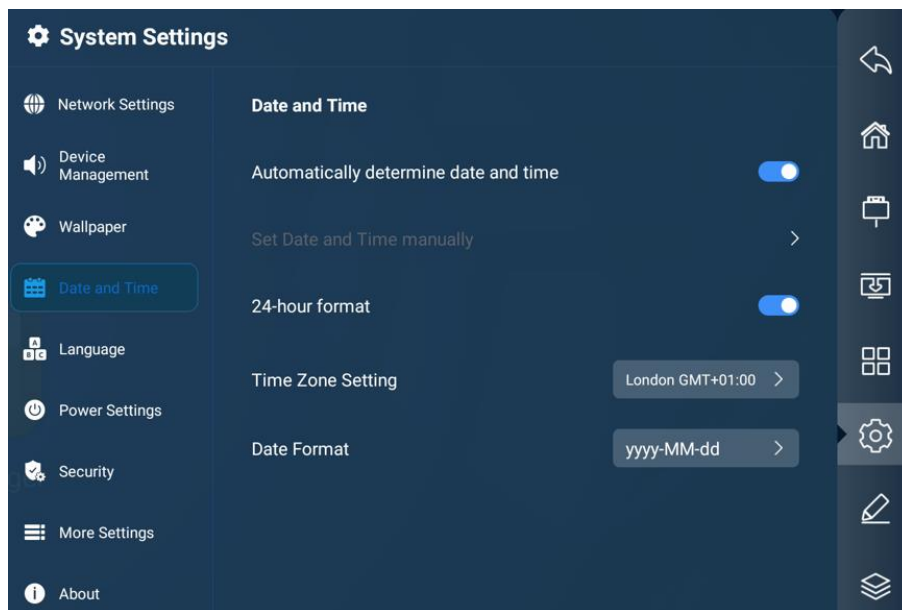


Figure 29 – Date and time settings

In this tab, you can set the time manually or automatically update it via the network, set the format of time display, date, time zone.

5.5 Language setting

Click the "Language" tab in the system settings menu.

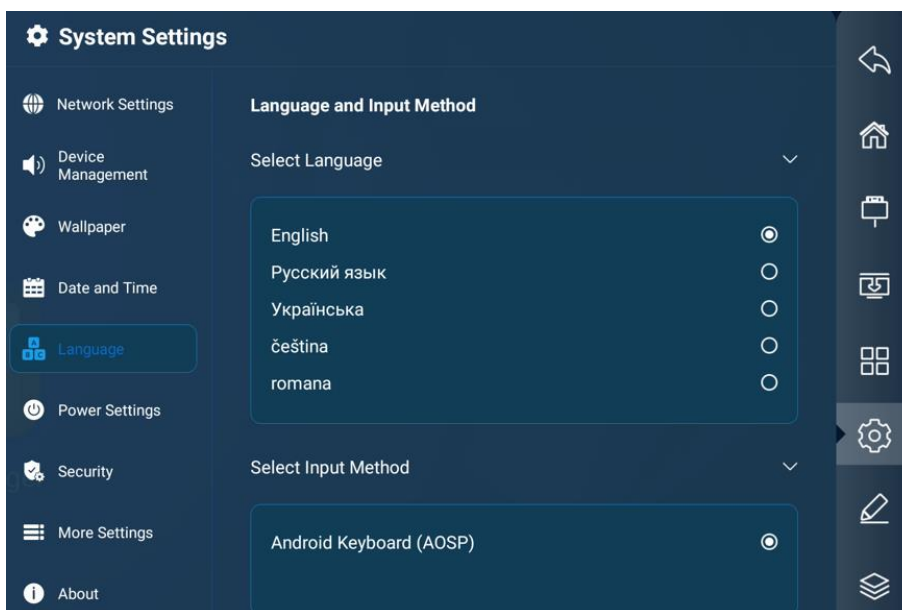


Figure 30 – Language settings

In this tab, you can set and change the data input and display language.

5.6 Power setting

Click the "Power settings" tab in the system settings menu.

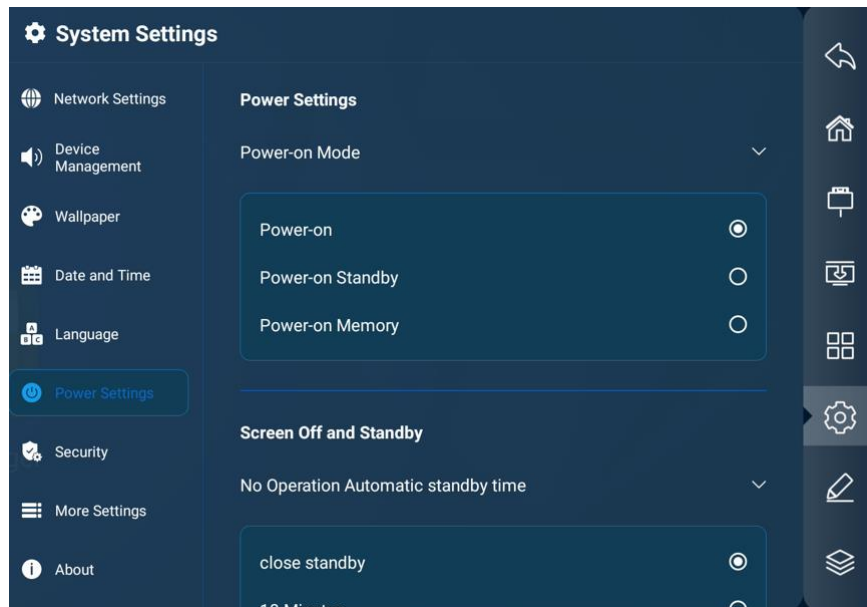


Figure 31 – Power settings

Here you can set the operating mode of the interactive panel and the schedule for turning it off.

5.7 Security setting

Click the "Security" tab in the system settings menu.

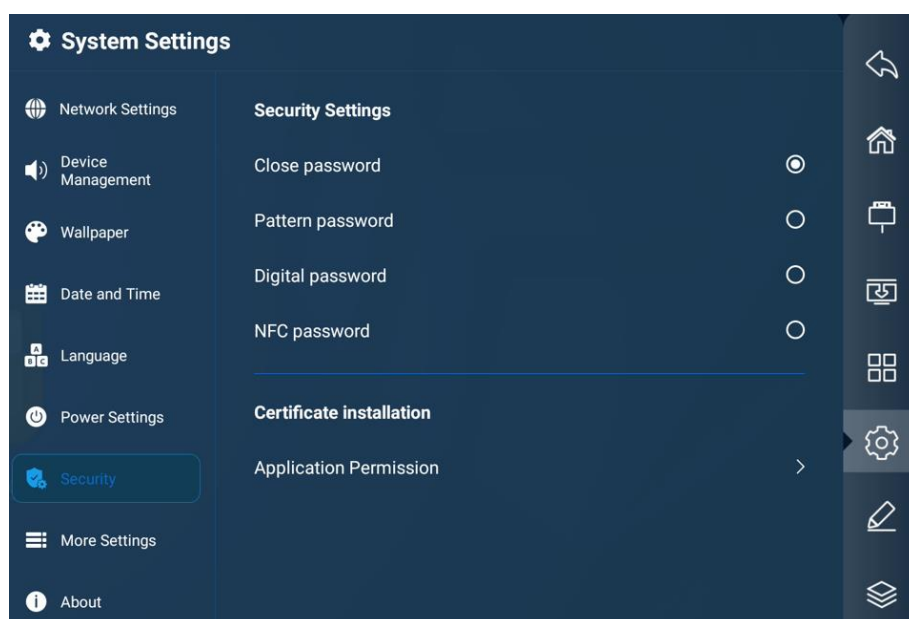


Figure 32 – Security settings

In this tab, you can set various password entry modes, as well as permissions for the software to work.

WARNING! Do not allow an unauthorized password to be set for login. If this happens, use the combination "888888" to reset the password.

NOTE. If you need to change the password, be sure to remember it. If you have forgotten your password, contact after-sales service to reset the password (see the feedback form at **prestigio-solutions.com**).

If you select the "NFC" option for authorization, the system will prompt the user to bind an NFC card. Follow the instructions on the screen. With NFC technology, it is also possible to run certain applications of the user's choice:

Step 1. Open the "NFC" application. Select "Add device", tap **+**.

Step 2. Hold the NFC card against the sensor, tap the pop-up message with the NFC card symbol in the lower right corner of the screen. In the list that appears, select an application by tapping its icon. Tap "Confirm". The screen will display a window with the user ID number and the name of the selected application.

Step 3. Select additional applications as described above, or close the window by tapping a free space on the screen.

After that, reading the NFC card will launch the selected application.

5.8 More settings

Click the "More settings" tab in the system settings menu.

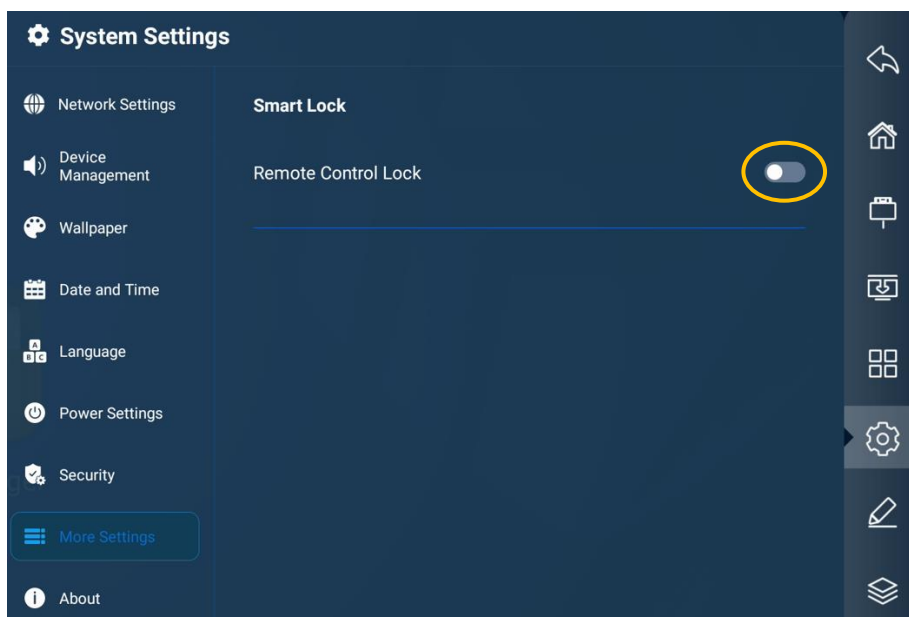


Figure 33 – More settings

In this tab, you can lock or unlock the use of the RC unit. This can be done with the switch on the screen (see figure above).

5.9 Device information

Click the "About" tab in the system settings menu.

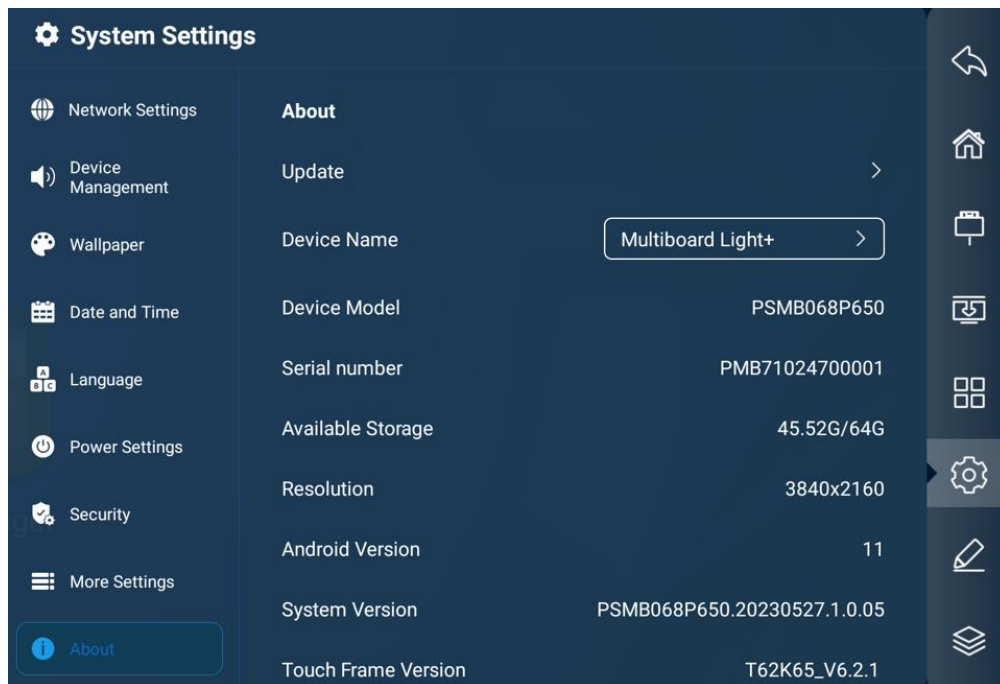


Figure 34 – Multiboard Light+ information

The following data is available on this screen:

- device name;
- serial number;
- total and available internal storage capacity;
- screen resolution;
- current OS version;
- the current version of the system;
- the current firmware version for touch control.

6 Software

The Multiboard Light+ has pre-installed software and the option to install third-party applications. Third-party applications should be installed from a USB flash drive or from online resources.

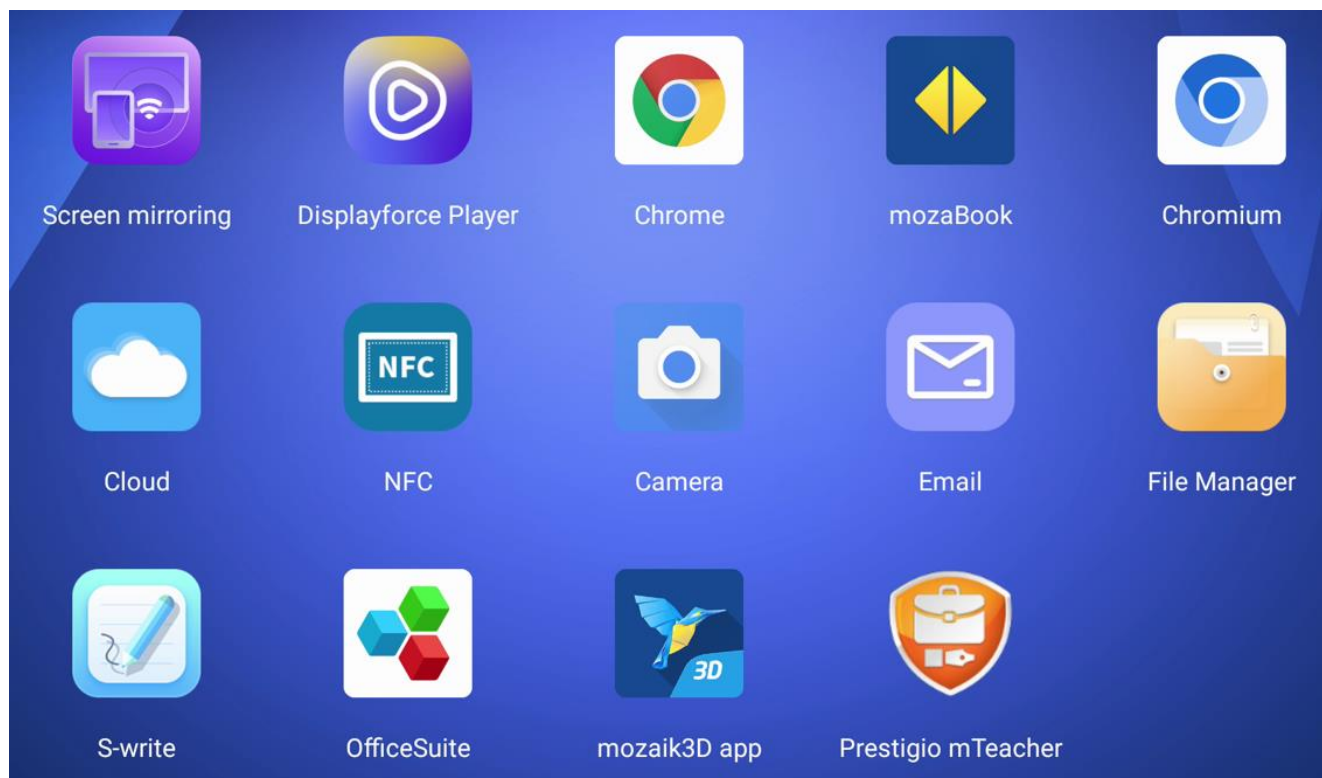


Figure 35 – Preinstalled software

Table 12 – Preinstalled software purpose (see the figure above)

Screen mirroring	Interaction of the interactive panel with external devices in wireless mode: • displaying content from the screen of a user device (e.g., computer, laptop, phone, tablet) on the Multiboard Light+ screen and vice versa; • interactive panel control from the user's device and vice versa; • user rights management for presentations; • streaming media from the mobile device's camera to the screen of the interactive panel. Windows, macOS, iOS, Android devices are supported
Displayforce Player	Analysis of the target audience, processing statistics
Chrome	Web browser
mozaBook	Teaching presentations, study on digital versions of textbooks, homework assignments
Chromium	Open source web browser
Cloud	Organization of cloud storage for files (Google Drive, OneDrive)

NFC	Configuring access rights to the interactive panel using proximity authorization
Camera	Taking advantage of the built-in Multiboard Light+ camera
Email	Receiving and sending email
File Manager	Files viewing and processing in Multiboard Light+ memory and connected media
S-write	Drawing and note taking on the Multiboard Light+ screen: • supports up to 40 points of simultaneous action; • screen splitting and work in different colors at the same time; • access to the image on the Multiboard Light+ screen via QR code; • saving images in the Multiboard Light+ memory
OfficeSuite	Files viewing, converting, annotating in various formats
mozaik3D	Conducting training sessions using 3D models
Prestigio mTeacher	Monitoring of lessons, evaluation and analysis of progress

WARNING! Check regularly for updates to the installed software and firmware of the device.

NOTE. The list of applications is subject to change. Check the exact list of applications before purchasing the interactive panel. The feature set of each application may vary depending on its current version.

7 Maintenance and repair

The Multiboard Light+ interactive panel requires no special maintenance. However, in order to maintain its proper condition and stable operation, it is recommended that you periodically clean the screen and the surface of the device.

Clean the interactive panel after turning it off and unplugging it from the power outlet. Clean the device with a dry or slightly moistened soft cloth. Do not allow moisture to enter the openings on the device and do not spray liquid directly onto the screen and surface of the device. Do not use aerosol sprays, solvents or abrasive materials for cleaning – they can damage the interactive panel surface (see "Maintenance" above).

Complete cleaning of the device from dust and dirt, as well as any repairs of the device during the warranty period are carried out in authorized service centres, because in order to perform the work it is necessary to open the housing of the device. If the repair was not performed by an authorized service centre, then the right to warranty service is void (see the "Warranty obligations" section below).

In case of warranty repair or replacement, contact the retailer with the receipt and the purchased device.

For more information on repairing and replacing the interactive panel, please contact your local representative or technical support through the special form at **prestigio-solutions.com**.

8 Warranty obligations

The manufacturer warrants all materials, components and workmanship of Prestigio Solutions brand products to be free from defects provided that they are used properly during the warranty period.

The interactive panel's service life is **three (3) years** if the rules of operation and storage are observed. The manufacturer's warranty for the Interactive Panel is **two (2) years** from the date of retail sale. Additionally, the customer is entitled to free servicing for the interactive panel during **one (1) year** after the expiration of the warranty period. The free servicing does not include transportation costs or spare parts cost.

In cases where this limited warranty differs from the warranty procedures provided by local law, the manufacturer will enforce the warranty in accordance with the laws of the country of purchase (see also the information at **prestigio-solutions.com/warranty**).

The warranty card only entitles you to servicing if the following conditions are met:

1. All fields of the card must be filled out clearly in handwriting.
2. The retailer's stamp is required, with their details also shown in the warranty card.

Prestigio Solutions brand products are warranted only in the country of purchase. The limited warranty extends only to the original purchaser of the Prestigio Solutions product and is not transferable or assignable to any subsequent purchaser.

For warranty replacement, the device must be returned to the retailer with the receipt and warranty card. Prestigio Solutions brand products are warranted only in the country of purchase.

8.1 Warranty service procedure

If you discover a possible malfunction or defect in the device, you should contact an authorized service centre before the warranty period expires and provide the following:

1. The device with a suspected malfunction or defect.
2. Original proof of purchase, clearly indicating the name and address of the retailer, as well as the date and place of purchase.

For up-to-date information about the warranty company, please visit **prestigio-solutions.com/warranty**.

8.2 Limitation of liability

Prestigio Solutions brand products are not eligible for free warranty service if the following damage or defects are found:

- damage caused by force majeure, accidents, negligence, intentional or careless actions (omissions) of the purchaser or third parties;
- damage caused by force majeure (natural disasters such as fire, flood, earthquake, lightning strike, etc.);
- damage caused by the effects of other objects, including but not limited to exposure to moisture, dampness, extreme temperatures or environmental conditions (or if they change rapidly), corrosion, oxidation, ingestion of food or liquid, as well as exposure to chemicals, animals, insects and their products of vital activity;
- if the cause of the malfunction is a repair not carried out by an authorized service centre and using non-original spare parts;
- defects caused by improper use of the device, inappropriate use, including use contrary to the user manuals, use of incompatible accessories (for example, internal PCs other than those recommended by the manufacturer – see "Connecting devices" section);
- any defects caused by the use of incompatible software;
- changing, removing, erasing or damaging the serial number of the product (or the serial number sticker on its parts);
- damage caused by violation of the rules and conditions of installation and operation of the device, set forth in the operation manual;
- cracks and scratches as well as other defects resulting from transportation, operation by the purchaser or negligent handling on his part;
- mechanical damage that occurred after the device was handed to the user, including the damage caused by sharp objects, bending, compressing, dropping, etc;
- damage caused by non-compliance with the standards for the parameters of the power supply, telecommunications, cable networks and external factors;
- defects caused by natural wear and tear.

This limited warranty is the exclusive and only warranty provided and is in lieu of all other express or implied warranties.

The manufacturer makes no warranties, express or implied, beyond the description contained herein, including an implied warranty of merchantability and fitness for a particular purpose. It remains at the discretion of the purchaser to use a faulty, defective and unacceptable device.

The manufacturer shall not be liable for damages to other property due to any defects in the device, loss of use of the device, loss of time, or for any special, incidental, indirect or consequential damages, punitive damages and losses, including but not limited to commercial damages, loss of profits, loss of benefits, loss of confidential or other information, loss due to business or production interruption because of the device being considered faulty, defective and unacceptable for use, in case that the user, being aware of a detected fault or defect, continued to use the device.

NOTE. ASBISC Enterprises PLC does not manufacture products related to critical equipment. Critical equipment includes life-support systems, medical devices and implantable devices, commercial transportation equipment, equipment for nuclear facilities or systems, and equipment for other applications where device failure could result in personal injury or death, or damage to property.

9 Storage, transportation and disposal rules

Observe the storage and operating conditions stated by the manufacturer (see "Safe operating rules", "Technical specifications" above).

Long-term storage of the device is allowed only in the original packaging, in dark, dry, clean, well-ventilated closed rooms.

The device can be transported by any type of covered vehicles (in railway carriages, closed vehicles, sealed heated compartments of airplanes, etc.) for any distance in accordance with the requirements of the applicable regulations considering fragile goods exposed to moisture. The device and accessories must be in their original packaging during shipment. Similar requirements of the applicable regulatory documents apply to the conditions of device storage in the supplier's warehouse.



When disposing of the device, its batteries and accumulators, and its electrical and electronic accessories, follow the Waste Electrical and Electronic Equipment (WEEE) * and Waste Battery and Accumulator Regulations. According to the rules, this equipment must be disposed of separately at the end of its service life. Do not dispose of the device, its batteries and accumulators, or its electrical and electronic accessories together with unsorted household waste, as this will be harmful to the environment.



Parts of unusable devices must be separated and sorted by material type. In this way, any user can contribute to the reuse, recycling and other forms of recovery of waste electrical and electronic equipment. Proper collection, recycling, and disposal of these devices will help avoid potential environmental and health impacts from the harmful substances they contain.

To dispose of this equipment, it must be returned to the point of sale or turned in to a local recycling facility. You should contact your local household waste disposal service for more information. If the user cannot take the device to a specialised collection and recycling facility, it can also be handed over to a building and hardware store, the local department of the Ministry of Emergency Situations, or a similar institution. Disposal is carried out in accordance with the applicable laws and regulations of the relevant country.

* Waste Electrical and Electronic Equipment, or WEEE, means used electrical or electronic equipment, including all components, assemblies, consumables that are part of the equipment at the time it is taken out of service (including supplied batteries/rechargeable batteries (if any), components containing mercury, etc.).

10 Other information

Manufacturer details

Name	ASBISC Enterprises PLC
Address	Iapetou, 1, Agios Athanasios, 4101, Limassol, Cyprus
Contact details	Tel.: +357-25-85-70-00, fax: +357-85-72-88, e-mail: info@asbis.com, asbis.com.

Information about the importing company

Great Britain and Ireland

Name	ASBISC Enterprises PLC
Address	Iapetou, 1, Agios Athanasios, 4101, Limassol, Cyprus .
Contact details	Tel.: +357-25-85-70-00, asbis.com

Information about the organization providing warranty service

A list of warranty organizations is available at **prestigio-solutions.com/warranty**.

Information on the certificates and declarations of compliance obtained is available at **prestigio-solutions.com/certificates-of-compliance**.

11 Troubleshooting

The table below lists typical errors and problems that occur during operation of the device, as well as ways to correct them.

Table 13 – Typical errors and solutions

No.	Problem	Possible causes	Solution
1	Nothing appears on the screen, there is no sound, and the LED does not light up	Power plug not firmly inserted, power connection failure	Check that the power cable is properly connected. Reconnect it if necessary
2	The images on the device have a dotted line or bar	Nearby electrical appliance causing interference	Find the interference source and move it farther away from the interactive panel. Plug the device into a different outlet
3	Images on the screen are displaced, they do not open full screen, are off-screen or blurred	Incorrect setting of the image on the interactive panel screen	Adjust the image settings in the Multiboard Light+ menu
		Incorrect displaying mode for the image from an external source (e.g., PC)	Adjust the Multiboard Light+ screen displaying mode (in the PC settings)
4	The panel responds to the remote control buttons only from a short distance or does not respond at all	The RC signal receiver is blocked by a foreign object	Eliminate interference to the RC signal
		The remote control unit battery level is low	Replace the battery in the remote control unit
		The batteries in the remote control unit are installed incorrectly	Check the polarity of the batteries in the remote control unit
5	No signal from connected computer	The display is not set up correctly	Check the display parameters (e.g., resolution, frame rate). Adjust the parameters using the settings menu
6	The interface on the screen "freezes" or does not respond	Too many programs running at the same time	Close a program that is taking up a large amount of memory. Disconnect the device from the power supply for 1–2 minutes and turn it on again
		Device firmware version or software version is out of date	Check for software and/or firmware updates for the device. Update the software and/or firmware of the device to the latest version

7	The sensor works slowly or does not work at all	Too many programs running at the same time	Close a program that is taking up a large amount of memory. Disconnect the device from the power supply for 1–2 minutes and turn it on again
		Touch control is blocked	Press the  (Return) button on the RC unit to unlock touch control
8	Touch controls are offset	Device coordinate system failure	Contact a service centre to calibrate the display
9	Authorization in the system does not work after entering the password	Wrong case or input language is being used	Check the case and language of the password. Re-enter the password using the correct parameters
		An unauthorized password was set	Use the combination "888888" to reset the password. Set a new password and remember it

If the problem is not solved or if you have other questions, contact support. Use the contact form at **prestigio-solutions.com**.

12 Glossary

AAA (battery) – size of galvanic batteries and rechargeable batteries. Length 44.6 mm, Ø 10.5 mm, weight about 12 g. Voltage from 1.2 to 1.6 V. Capacity from 300 to 1250 mAh.

Direct LED – technology of matrix distribution of LEDs over the entire screen area for uniform illumination of the image, better brightness, contrast of the picture.

DisplayPort – interface for high-definition multimedia signals, allowing to transmit digital video and audio signals. Bandwidth is up to 77.37 Gbit/s.

HDMI – interface for high-definition multimedia signals that allows copy-protected digital video and audio signals. Bandwidth is up to 48 Gbit/s.

NFC – technology that enables short-range wireless data transfer between smart card and reader interfaces.

Power Delivery – technology that provides fast, high-capacity battery charging for mobile devices.

RS232 – interface for transmitting information between two devices over a distance of up to 15 m. It is used to connect equipment to computers that are not demanding on the speed of exchange.

S/PDIF – standard digital audio format used in consumer and professional digital audio equipment.

Ultra HD – ultra-high definition video transmission standard with increased frame rate, expanded dynamic range and color gamut, and enhanced audio transmission.

USB 2.0 – universal serial bus specification for connecting devices with data transfer rates of up to 1.5 Gbit/s and a current of 500 mA. Allows to not use external power for some devices.

USB 3.0 – universal serial bus specification for connecting devices with data transfer rates of up to 5 Gbit/s and a current of 900 mA. Allows to not use external power for some devices.

VESA – video electronics standardization system that defines mounting parameters for devices (e.g., LCD panels).

VGA – component analog video interface used in monitors and video adapters.

Wi-Fi – local network based on wireless technology.

Interactive panel – device that combines a personal computer and a large-format, high-definition touch screen. Allows you to significantly improve the quality of collaboration in meeting rooms and conference rooms by directly interacting with the VCS application on the screen and eliminating the use of the mouse and keyboard.

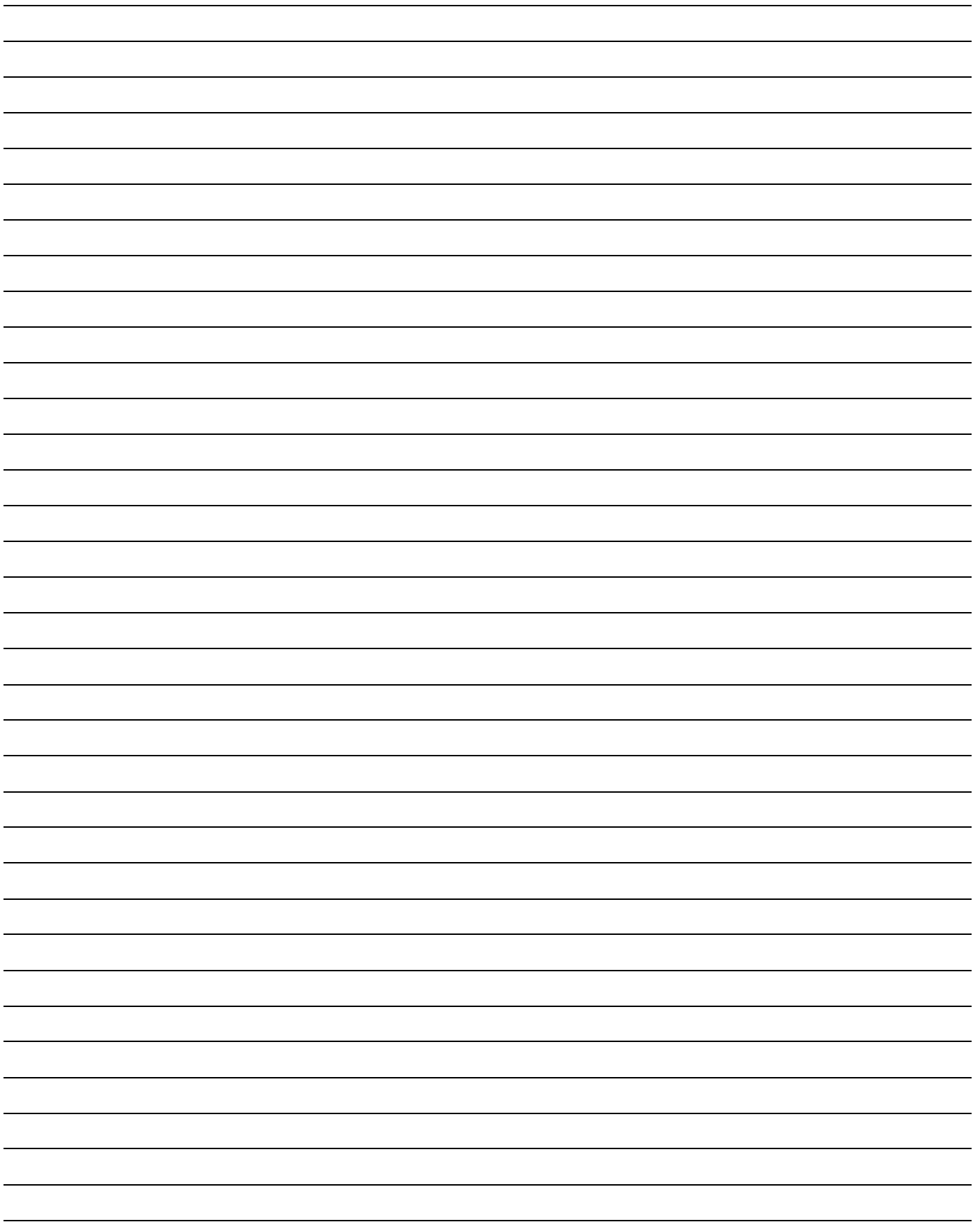
Infrared touchscreen – technology based on sensors located in a special frame around the screen. With their outgoing beams they create a grid on the screen. When an object hits the screen, the beams are interrupted, resulting in the calculation of the touch coordinate.

Conference call (video conferencing, VCS) – telecommunications technology for interactive cooperation between multiple remote subscribers, in which they can exchange audio and video information in real time with the help of hardware and software computing technology.

Multitouch – function used for touch input systems that can be used to simultaneously determine the coordinates of multiple touch points.

Stylus – pen with a silicone tip designed to work with a touch screen. Use to navigate through the device's menus and to create graphical objects on the touchscreen.

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.





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