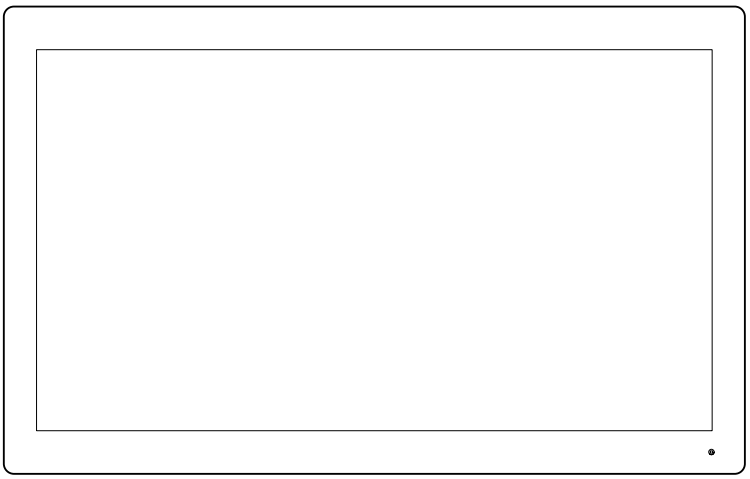
USER MANUAL

MicroTouch Touch LCD Monitor

M1-101OD-A1 / M1-215OD-A1 / M1-27OD-A1



Introduction

About this document

No part of this publication may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language or computer language, in any form or by any means, including, but not limited to, electronic, magnetic, optical, chemical, manual, or otherwise without prior written permission of Microtouch.

The information in this document is subject to change without notice. Microtouch makes no representations or warranties with respect to the contents herein, and specifically disclaims any implied warranties of merchantability or fitness for a particular purpose. Microtouch reserves the right to revise this publication and to make changes from time to time in the content hereof without obligation of Microtouch to notify any person of such revisions or changes. Other brand or product names are trademarks of their respective holders.

Conventions

The following subsections describe graphic conventions are used in this manual to denote certain actions or information for clarification purposes. Keep these points in mind to avoid problems with the device or injuries:

TIP:	*A TIP highlights helpful shortcuts and guidelines for installation, use, maintenance.*
NOTE:	*A NOTE indicates supplementary information or important text for installation, use, maintenance.*
CAUTION:	*A CAUTION warning indicates a potential risk of injury or device malfunction.*
MISE EN GARDE:	*Une MISE EN GARDE avertit du risque de blessures ou de dysfonctionnement de l'appareil.*
WARNING:	*A WARNING indicates the presence of potential risks that could result in serious injury or death.*
AVERTISSEMENT:	*Un AVERTISSEMENT apparaît lorsqu'il y a des risques potentiels de dommages graves ou de blessures mortelles.*

Table of contents

Introduction 2
Safety and regulatory information 5
Safety 5
Installation 7
Use 7
Regulatory compliance 8
For FCC (USA) 8
For IC (Canada) 8
For CE (EU) 9
For UL (USA) 9
Disposal Information 9
General information 10
Package content 10
Unpacking 10
Accessories 11
Product overview 12
Front view 12
Rear view 13
Control buttons 15
Setup and installation 16
Wall mounting 16
About VESA mount 16
About Flush Mount 18
Mounting orientations 20
Mounting Guide 21
Installing mount brackets 22
Making connections 24
Connecting the power cable 24
Connecting external devices 25
Using the device 26
Turning the device on/off 26
Turning the device on 26

Turning the device off 26
Using the hotkey functions 27
Brightness hotkey 27
Mute hotkey 28
Source Select hotkey 29
Lock or unlock the control buttons 30
Enable or disable touch operations 32
Touch awakened OSD menu 32
Configuring the device settings 33
OSD menu navigation 33
OSD menu functions 34
Appendix 41
Specifications 41
Dimensions 43
Supported timings 46
Troubleshooting 48
Maintenance 49
Cleaning 49

Safety and regulatory information

Safety

WARNING:

To prevent the risk of electric shock, always connect this equipment to a power source that has a working ground (earth) connection.

AVERTISSEMENT:

Pour éviter tout risque d'électrocution, cet équipement ne doit être connecté qu'à un réseau d'alimentation doté d'une fonction de mise à la terre.

WARNING:

To prevent the risk of fire or electric shock, do not expose the product to moisture.

AVERTISSEMENT:

Pour réduire le risque d'incendie ou d'électrocution, faites attention à ne pas exposer l'appareil à l'humidité.

General recommendations

- Read the safety and operating instructions before operating the device.
- Retain safety and operating instructions for future reference.
- Follow all warnings on the monitor and in the user's manual.
- Follow all instructions for operation and use.

Electrical shock or fire hazard

- Do not expose this device to rain or moisture.

Modifications to the unit

- Do not modify this equipment without authorization of the manufacturer.
- If there is any other problem, please consult or return the monitor to your distributor. Do not try to repair a defective monitor.

Preventive maintenance

Before performing the following routine inspection, unplug the device from the power source.

- Inspect the adapter and power cord for any damage. Ensure the cord is positioned safely to prevent it from being pinched or cut.
- Verify that the Protective Earth Ground connection is intact and secure.
- Keep the area around the power plug clean, as dust and liquids can pose a fire hazard.
- Clean the device's ventilation slots regularly, as dust buildup can block airflow and cause the electronics to overheat.

Additional recommendations:

- Keep the device clean to prolong its operational lifetime.
- Check the tightness of the VESA mount screws periodically. Loose screws may cause the device to detach from the arm, leading to potential injury or equipment damage.

Mission critical applications

We strongly recommend there is a replacement device immediately available in mission critical applications.

Transient over-voltage

To completely disconnect power from the device, unplug the adapter from the power source.

Liquids and moisture

- Never expose the device to liquids or moisture.
- Never use the device near water - e.g. near a bathtub, washbasin, swimming pool, kitchen sink, laundry tub or in a wet basement.
- Front panels of all models are IP65 compliant.
- The glass surface is fully cleanable.

Moisture condensation

- Do not use the device in environments with rapid temperature or humidity changes, and avoid direct exposure to cold air from air conditioning outlets.
- Moisture may condense on the surface or inside the unit, potentially forming a mist residue on the protective plate. While this is not a product malfunction, it may still cause damage to the device.
- If condensation occurs, keep the device unplugged and allow it to dry completely before use.

Ventilation

Do not cover or block any ventilation openings on the monitor. When installing it in a cabinet or other enclosed space, ensure sufficient clearance around the device for proper airflow. The addition of built-in thermal sensors and 2 external fans help to prevent the display from overheating.

Installation

- Place the device on a flat, solid and stable surface that can support the weight of at least three devices. If you use an unstable cart or stand, the device may fall, causing serious injury, and serious damage to the device.
- The unit and setup must be tested and validated before being put into operation.
- Do not install the device in environments with high temperature or humidity. Ensure conditions do not exceed the following limits:
  - Operating conditions: Temperature: -20°C to 60°C (Independent of altitude); Humidity: 20% to 80% (non-condensing).
  - Storage conditions: Temperature: -30°C to 80°C (Independent of altitude); Humidity: 10% to 90% (38.7°C maximum wet bulb temperature).

Use

General warnings:

- Inspect the enclosure for any potential damage from shipping or accidents. If you are unsure, contact MicroTouch support for assistance (https://help.microtouch.com/kb-tickets/new).
- The protective screen is made of tested high-impact glass; however, strong impacts may still cause it to crack. To minimize the risk of breakage, handle and position the device properly.
- The device is intended for indoor use.

Malfunctions:

- Unplug the power cord from the device's power outlet and contact a qualified service technician if any of the following conditions occur:
  - If the power cord, plug, or adapter is damaged or frayed.
  - If liquid has been spilled into the equipment.
  - If the equipment has been exposed to rain or water.
  - If the equipment does not operate normally when the operating instructions are followed. Adjust only the controls specified in the operating instructions. Improper adjustments to other settings may cause damage and may require extensive servicing by a qualified technician to restore normal operation.
  - If the equipment has been dropped or damaged.
  - If the product exhibits a distinct change in performance, indicating a need for service.

Regulatory compliance

For FCC (USA)

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum 20cm distance between the radiator and your body: Use only the supplied antenna.

For IC (Canada)

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

(1) This device may not cause interference.

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

The term "IC: " before the certification/registration number only signifies that the Industry Canada technical specifications were met. This product meets the applicable Industry Canada technical specifications.

Cet appareil contient des émetteurs/récepteurs exempts de licence qui sont conformes aux normes CNR exemptes de licence d'Innovation, Sciences et Développement économique Canada. Son fonctionnement est assujetti aux deux conditions suivantes :

(1) Cet appareil ne doit pas causer d'interférences.

(2) Cet appareil doit accepter toute interférence, y compris celles qui peuvent entraîner un fonctionnement indésirable de l'appareil.

For CE (EU)

The device complies with the EMC Directive 2014/30/EU and Low Voltage Directive 2014/35/EU

For UL (USA)

UL 62368-1, 3rd Ed/ CSA C22.2 No. 62368-1:19, 3rd Ed.

Use only adapters with the UL certification.

Disposal Information

Waste Electrical and Electronic Equipment



This symbol on the product indicates that, under the European Directive 2012/19/EU governing waste from electrical and electronic equipment, this product must not be disposed of with other municipal waste. Please dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

For more information about recycling of this product, please contact your local city office or your municipal waste disposal service.

General information

In this section, you will find information on the package content and device's features.

Package content

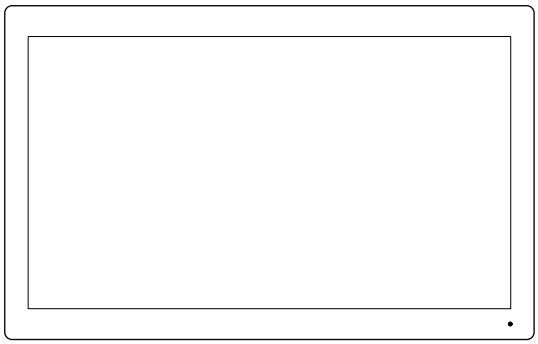
Unpacking

- Before unpacking your device, choose a location near an easily accessible wall outlet.
- Set the device box in an upright position and open from the top of the box before removing the top cushions.
  - — Step 1: Remove the package
  - — Step 2: Take out the accessory box then remove the bottom cushions.
- We recommend keeping the box and packaging for future use in case the device needs to be returned.
- Carefully unpack the device and verify that all items listed in the "Accessories" section are included.

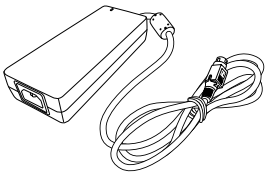
TIP:

If any of the accessories is missing or damaged, please contact your distributor for more information.

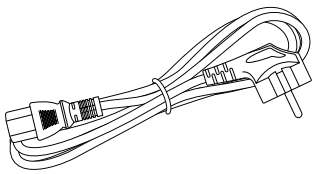
Accessories



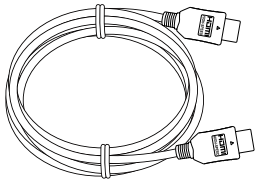
Touch monitor



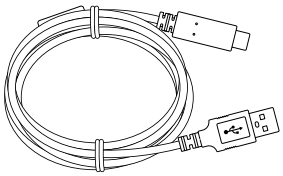
Adapter



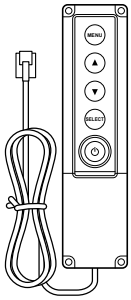
Regional specific power cables



HDMI cable



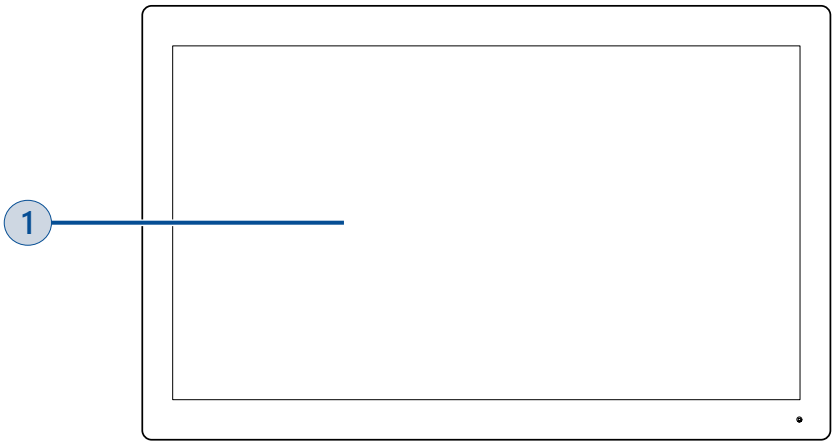
USB C to A cable



Wired Remote Control

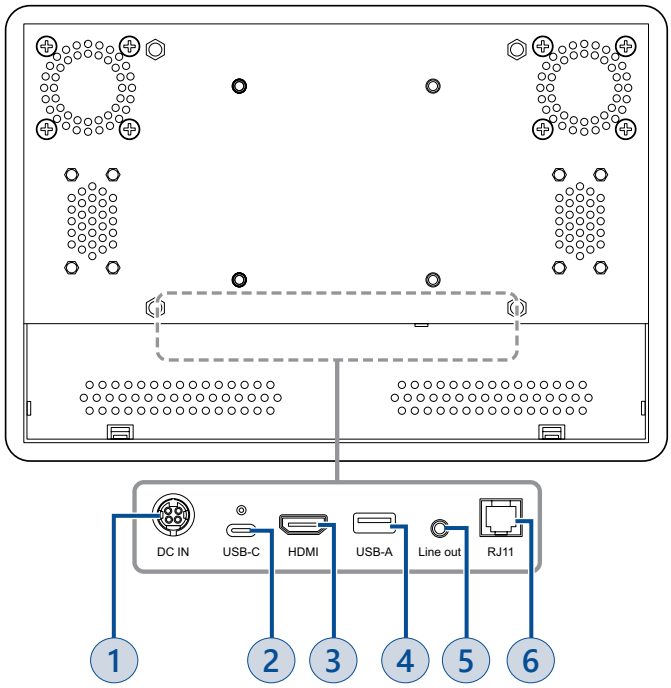
Product overview

Front view

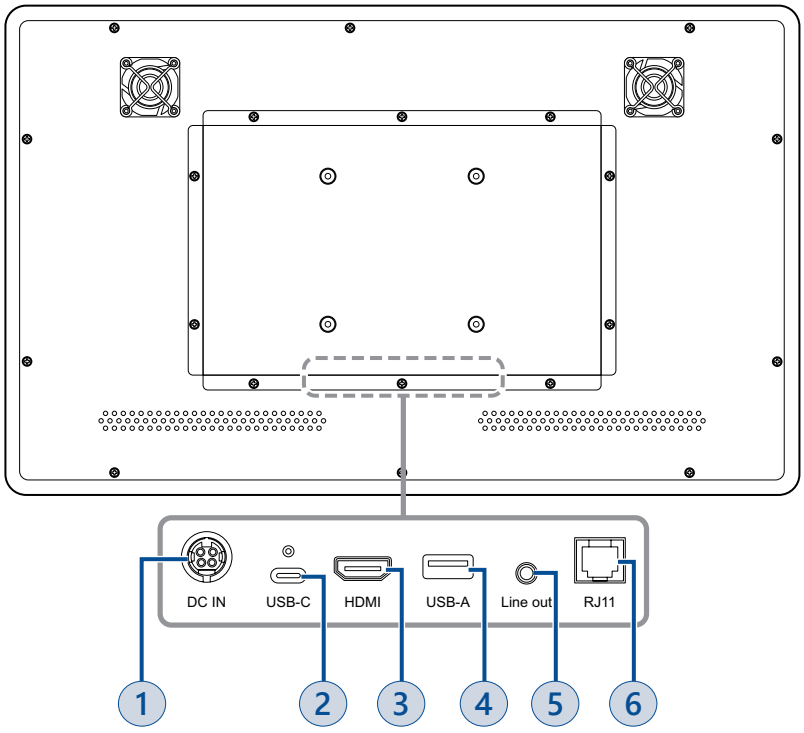


#	Function	Description
1	Display screen	Display screen with multi-touch functionality.

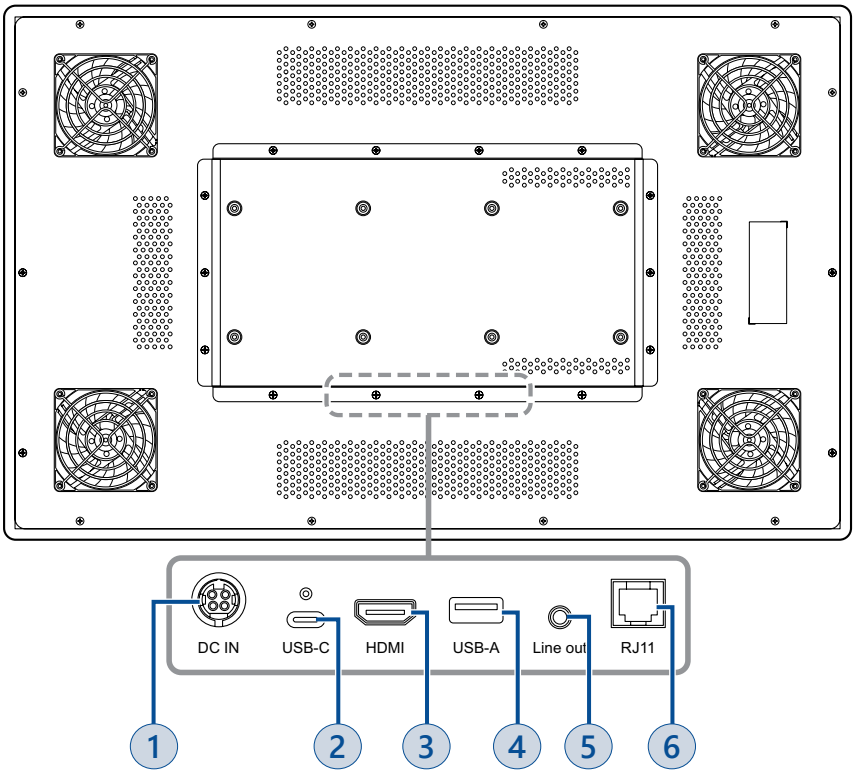
Rear view



M1-101OD-A1 model



M1-215OD-A1 model

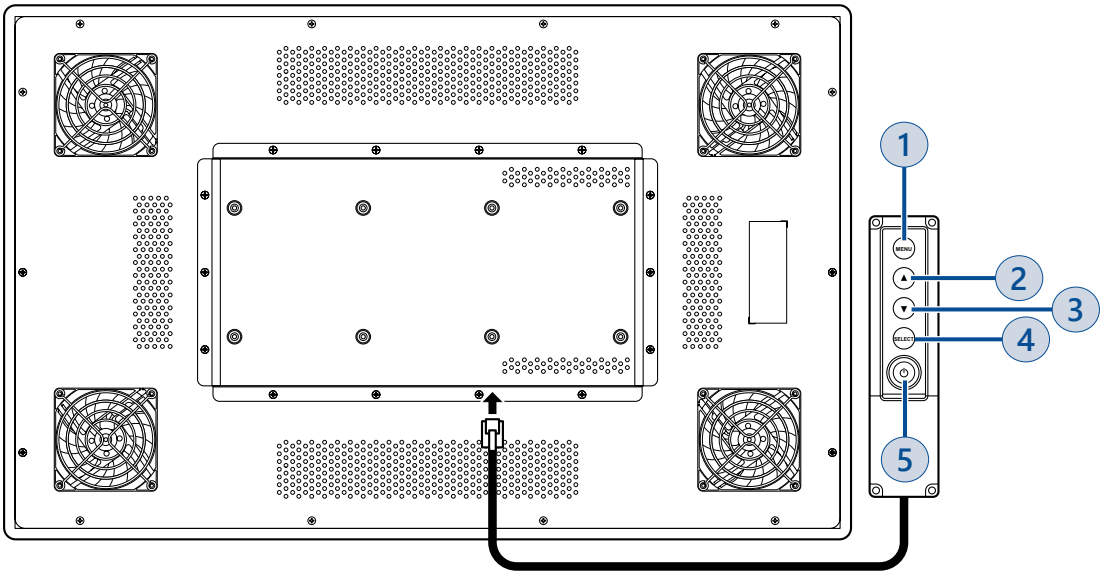


M1-27OD-A1 model

#	Function	Description
1	DC IN jack	Connect with the supplied power adapter.
2	USB Type-C connector	• APF-10: Support USB3.0, ALT Mode, PD 5V@5A or 9V/12V/15V@3A input. • APF-22, APF-27: Support USB3.0, ALT Mode input.
3	HDMI connector	Connect with HDMI compatible devices.
4	USB Type-A connector	Connect with USB 2.0 or 3.0 compatible devices.
5	Line out connector	Connect with Line output devices.
6	RJ11 connector	Connect the wired remote control.

Control buttons

To use the control buttons, connect the wired remote control to the RJ11 connector on the monitor.



#	Icon	Function	Description
1	**MENU**	On-screen display (OSD) menu	• Press to activate the OSD menu. • In the OSD menu, press to move to the previous menu or press repeatedly to close the OSD menu.
2	▲	Hotkey: Brightness	• Press to adjust the brightness level. • In the OSD menu, press to moves up or increase the value.
3	▼	Hotkey: Mute	• Press to enable/disable the mute function. • In the OSD menu, press to move down or decrease the value.
4	**SELECT**	Hotkey: Source Select	• Long press for 3 seconds to switch the input source. • In the OSD menu, press to enter the submenu or confirm the selection.
5	⏻	Power button	Press to switch the monitor on or off.

Setup and installation

This section explains how to wall mount the monitor, install the mount brackets, and perform connections with other devices.

Wall mounting

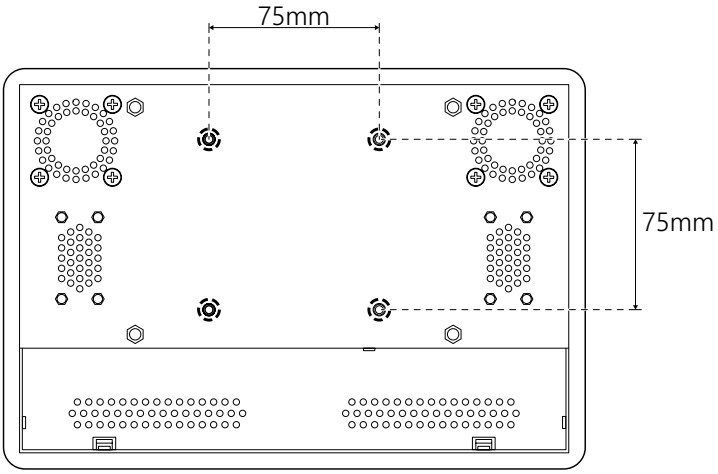
About VESA mount

This monitor supports VESA standard mount with specific pattern located at the rear of the monitor.

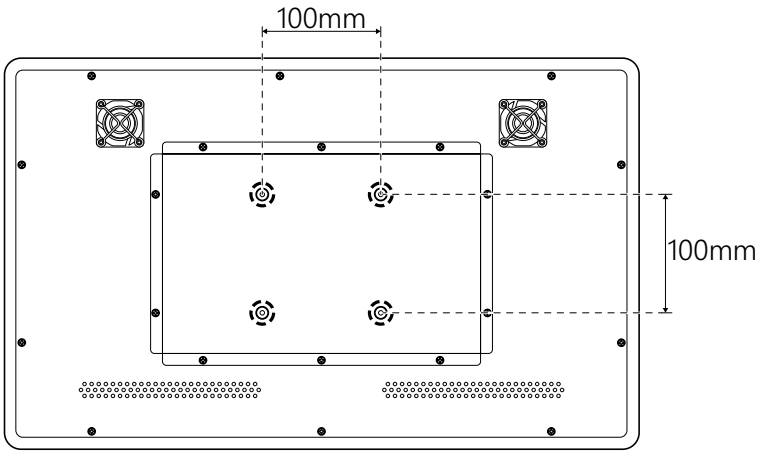
Model Name	VESA Grid Pattern
M1-101OD-A1	75 x 75 mm
M1-215OD-A1	100 x 100 mm
M1-27OD-A1	300 x 100 mm

NOTE:

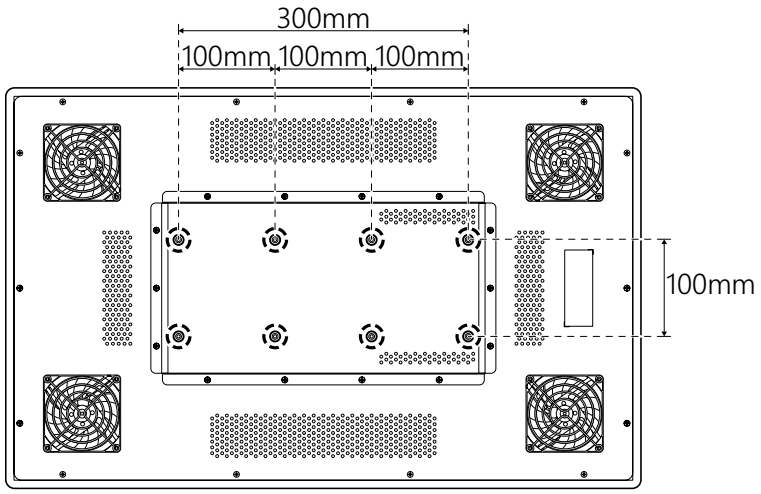
Use M4 screws with the maximum depth of 4mm.



M1-101OD-A1 model



M1-215OD-A1 model



M1-27OD-A1 model

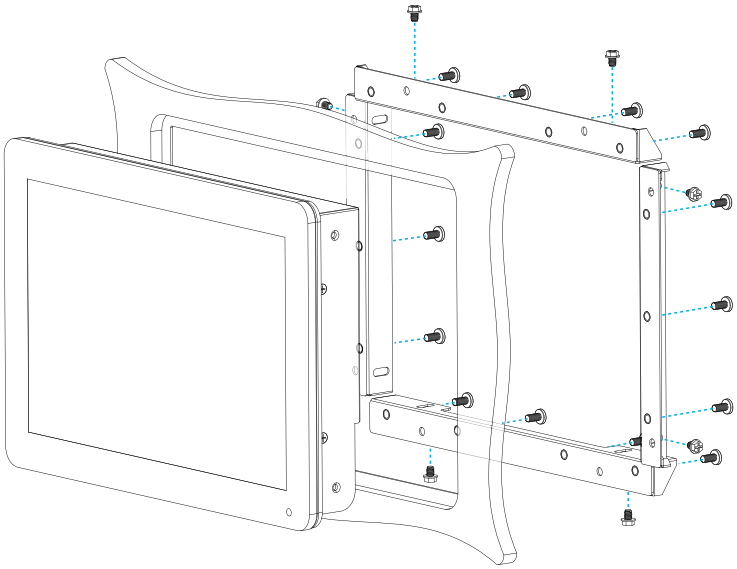
About Flush Mount

Flush Mount Bracket Installation

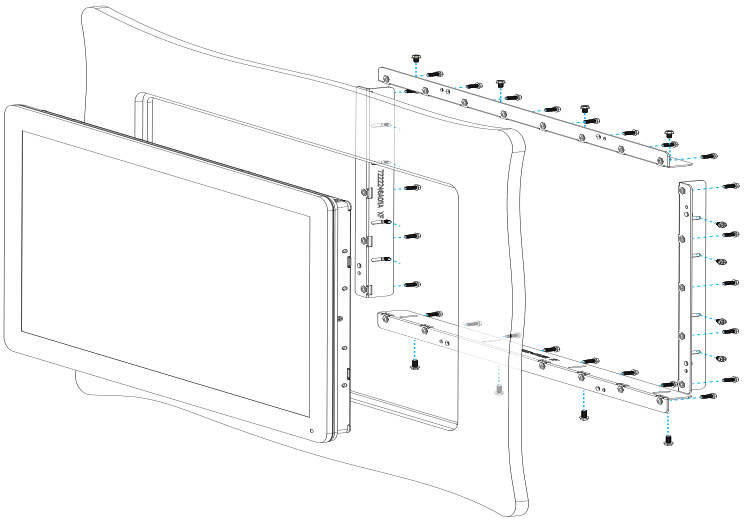
NOTE:

See below drawing for the exact details of the recommended enclosure panel opening dimensions.

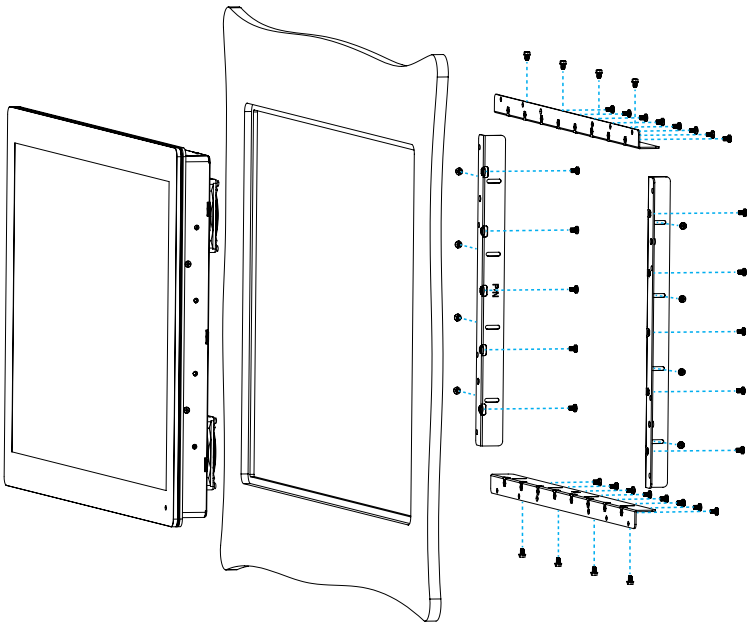
1. Place the device into your enclosure panel opening.



M1-101OD-A1 model



M1-215OD-A1 model



M1-27OD-A1 model

2. Attach flush mounting brackets (all four sides) with Hex M4x5mm bracket screws to secure the touch display to the enclosure panel. Adjust the touch display as close as possible to flush with the front of the enclosure panel before tightening M4 bracket screws. A socket wrench is recommended if clearance is limited.

3. Tighten the M4x8mm clamping screws on the short mounting brackets to bring the touch display glass completely flush with the customer panel, then tighten the M4x6 mm clamping screws on the long mounting brackets, compressing the sealing gasket.

WARNING:

This apparatus is intended to be supported by a Listed Wall Mount Bracket or the equivalent.

MISE EN GARDE:

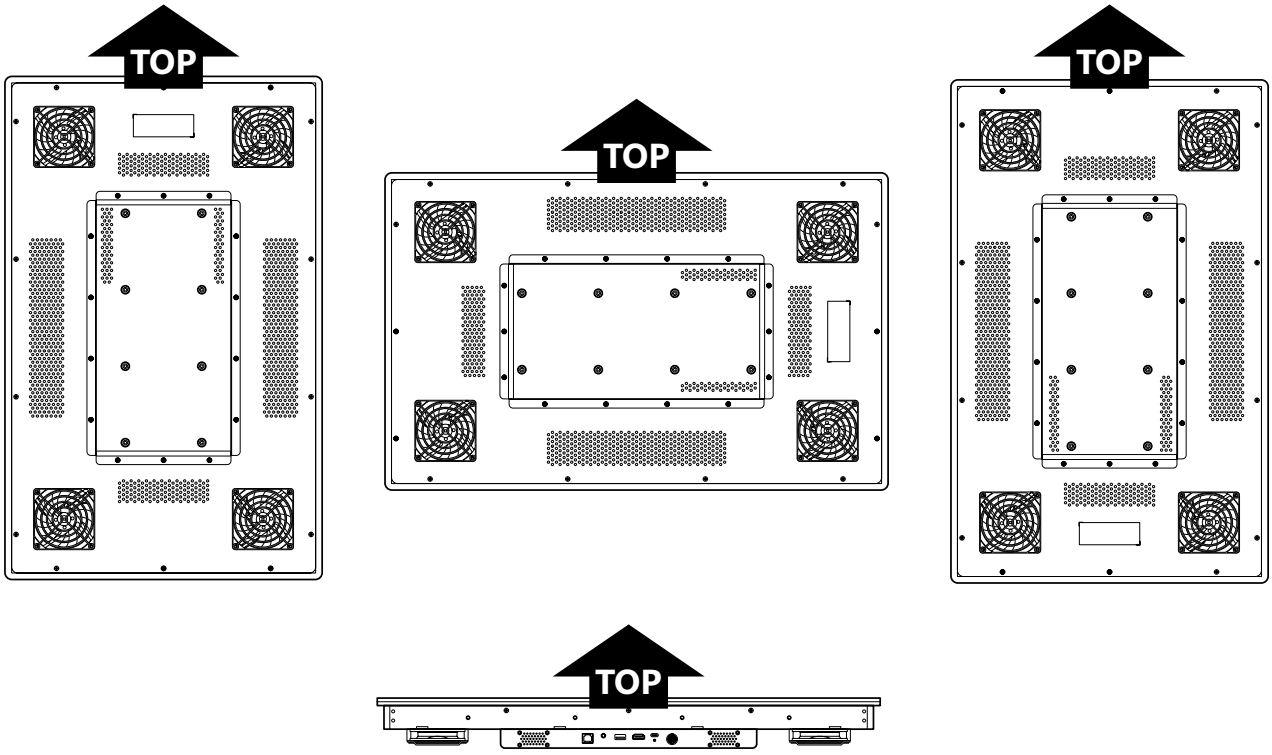
Cet appareil est conçu pour être supporté par un support de fixation mural répertorié "ou l'équivalent.

Mounting orientations

This monitor supports several mounting orientations as shown in the illustrations below.

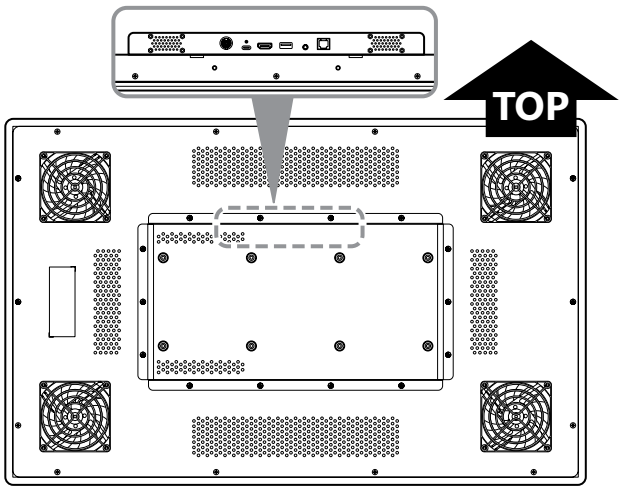
NOTE:

For optimal touch performance, ensure that the monitor is supported fully and is as flat as possible.



CAUTION:

Do not mount the device with the I/O ports facing up.



Mounting Guide

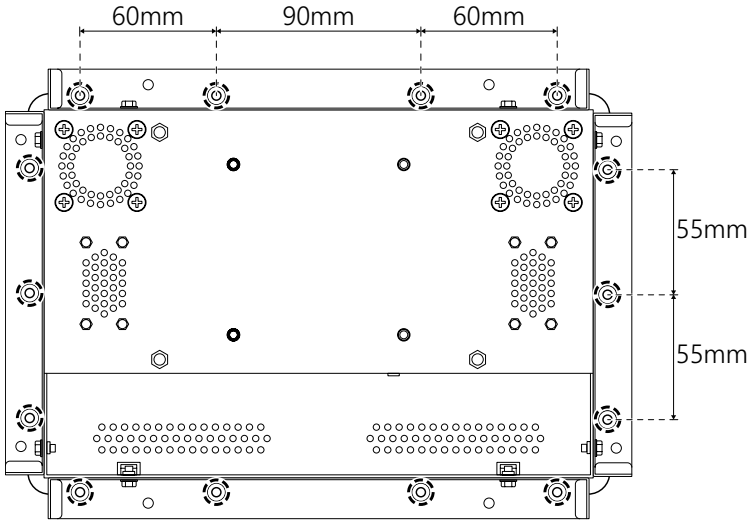
When selecting the installation location and orientation, please follow the guidelines below:

1. If the display is installed vertically and its orientation is inverted, or if a strong light source is close to the sensor window, or the sensor window is obstructed, the ambient light sensor may not function properly. For detailed information regarding the light sensor placement, please refer to the dimensional drawings.
2. Avoid installing the product in direct sunlight as much as possible. Use shading or avoid exposure to sunlight to reduce environmental impact on the product and extend its service life.

Installing mount brackets

The side mount brackets can be secured to all four sides of the monitor.

1. Secure the side mount brackets to the monitor with the screws.
2. Mount the monitor on the wall.



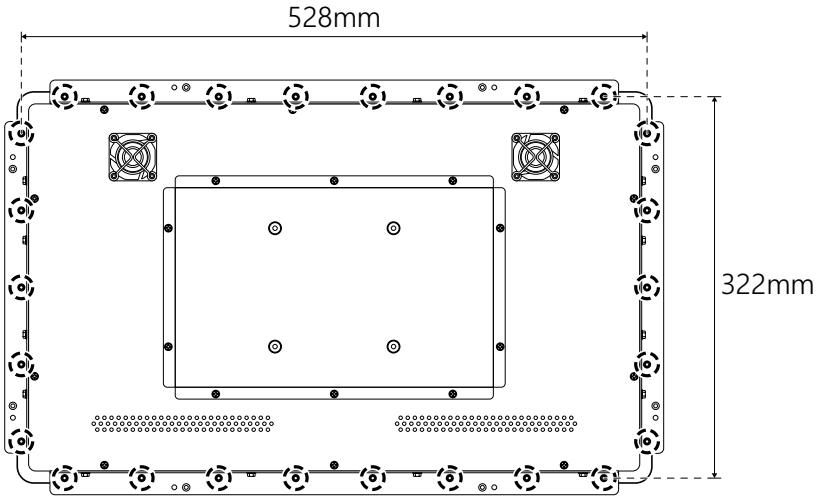
M1-101OD-A1 model

NOTE:

Use the following screws to mount the bracket to the device:

- Short mounting brackets (left/right): M4 x 8L (6 screws)

- Long mounting brackets (up/down): M4 x 8L (8 screws)

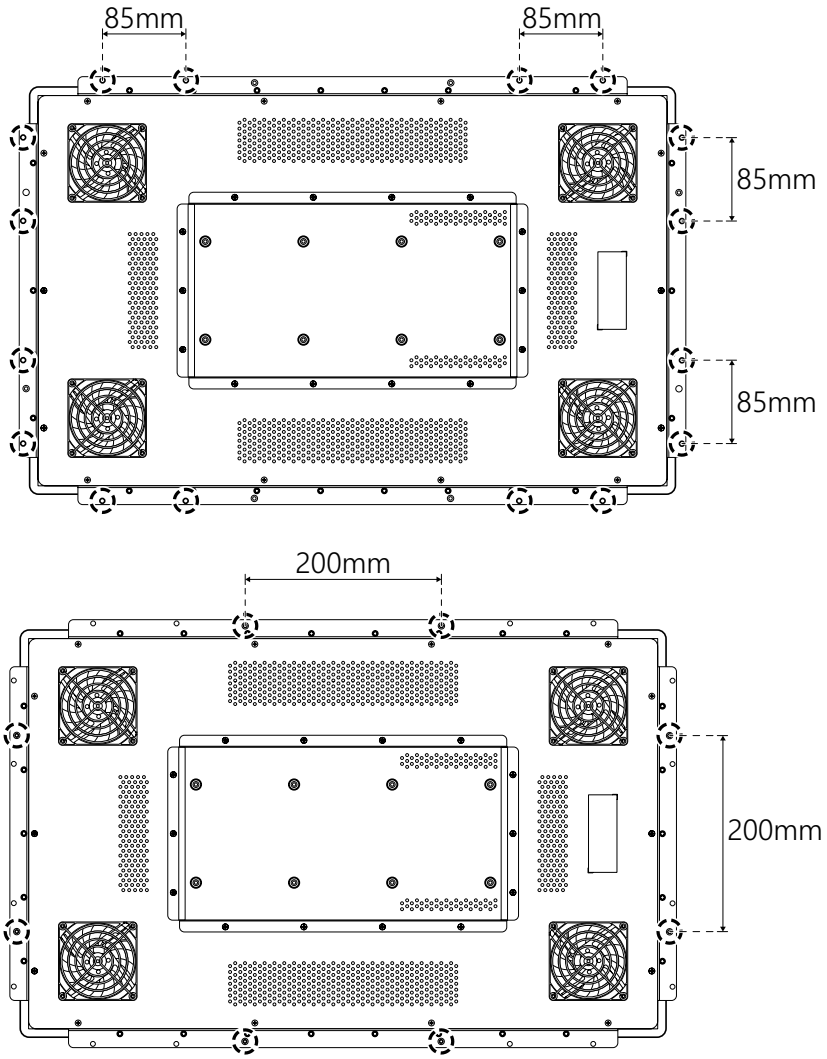


M1-215OD-A1 model

NOTE:

Use the following screws to mount the bracket to the device:

- Mounting brackets: M4 x 8L (26 screws)



M1-27OD-A1 model

NOTE:

Use the following screws to mount the bracket to the device:

- Mounting brackets: M4 x 8L (26 screws)

Making connections

Connecting the power cable

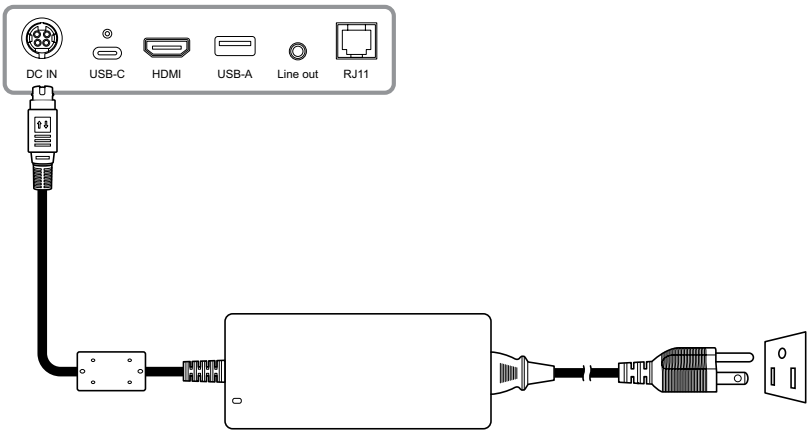
To connect the device to a power outlet, do the following:

1. Place the device on a flat surface, with the screen facing down.

NOTE:

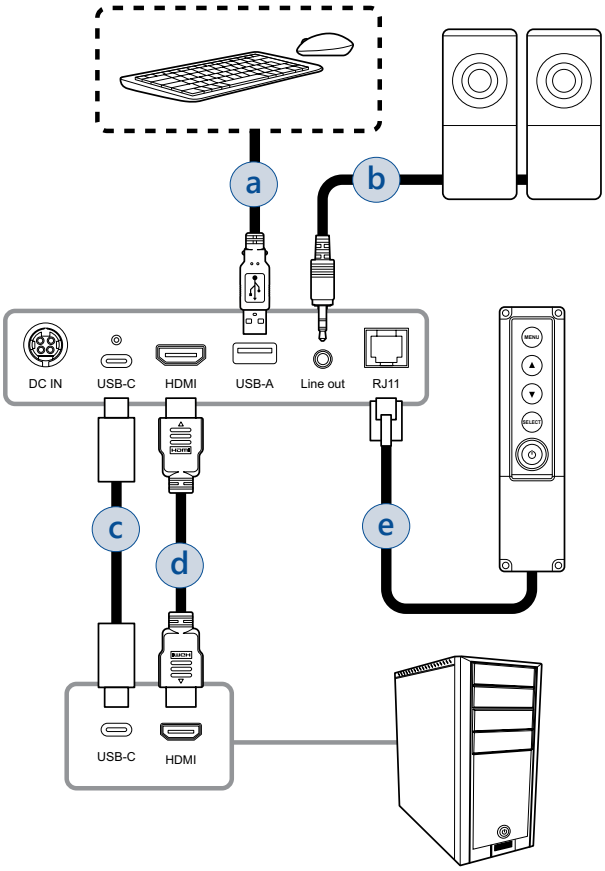
We recommend to cover the surface with soft cloth to prevent damage to the screen.

2. Connect the power cable to the adapter. Then connect the end of the adapter to the DC IN jack at the rear of the device.
3. Connect the other end of the power cable to a power outlet or a power supply.



Connecting external devices

You can connect the LCD monitor to your computer or other device by using the following cables:



a. USB device

Connect the USB Type-A compatible device to the USB connector of the monitor.

b. Speaker cable

Connect the speaker cable of the external speaker to the LINE OUT connector of the monitor.

c. USB cable

Connect one end of a USB cable to the USB Type-C connector of the monitor. Then connect the other end of the USB cable to the USB port your notebook.

NOTE:

For power, the host (notebook) must support USB-C PD 12V/3A,or 9V/3A,or 15V/3A, or 5V/5A.

d. HDMI cable

Connect one end of an HDMI cable to the HDMI connector of the monitor. Then connect the other end of the HDMI cable to the HDMI port of the device.

e. Wired remote control

Connect the wired remote control to the RJ11 connector of the monitor.

Using the device

In this section, you will find information on how to turn the power on/off, using the hotkey functions, and configure the monitor settings using the OSD menu.

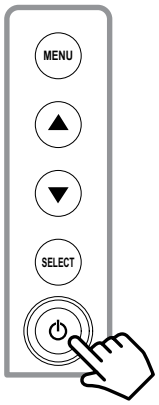
Turning the device on/off

Turning the device on

After you connect the device to the power source, the monitor will automatically turn on and ready to use.

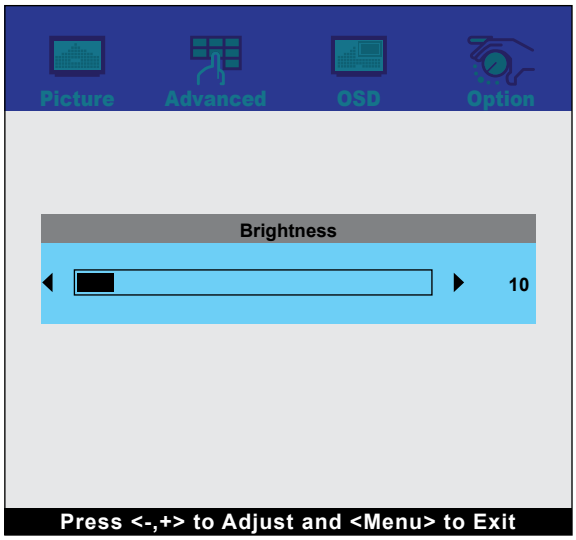
Turning the device off

Long press press the ⏻ button for 5 seconds to turn the monitor off.



Using the hotkey functions

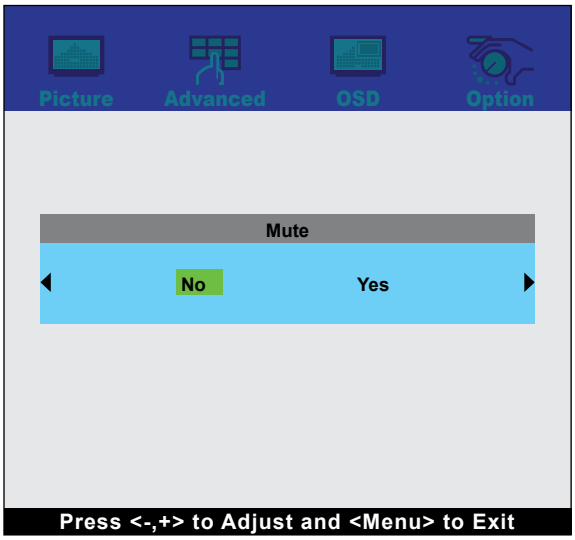
Brightness hotkey



To adjust the brightness level, do the following:

1. Press the ▲ button. The Brightness menu will open.
2. Press the ▲ or ▼ button to increase or decrease the brightness respectively from "**0**" to "**100**".
3. Press the **MENU** button (repeatedly if necessary) to close the Brightness menu.

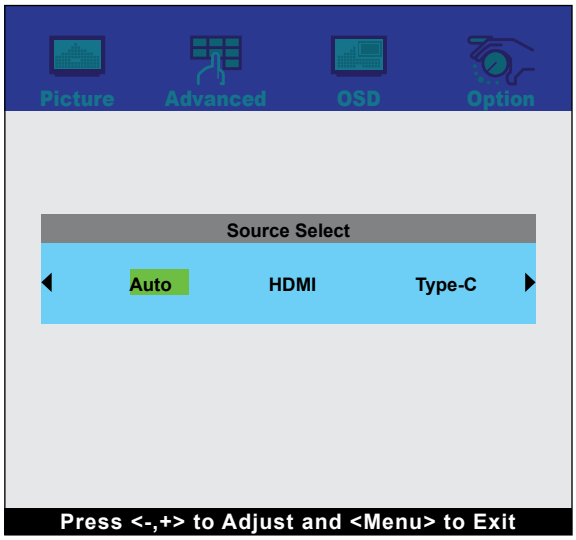
Mute hotkey



To mute or unmute audio, do the following:

1. Press the ▼ button. The Mute menu will open.
2. Press the ▲ or ▼ button to select "**No**" for unmute and "**Yes**" for mute.
3. Press the **SELECT** button to confirm the selection.
4. Press the **MENU** button (repeatedly if necessary) to close the Mute menu.

Source Select hotkey

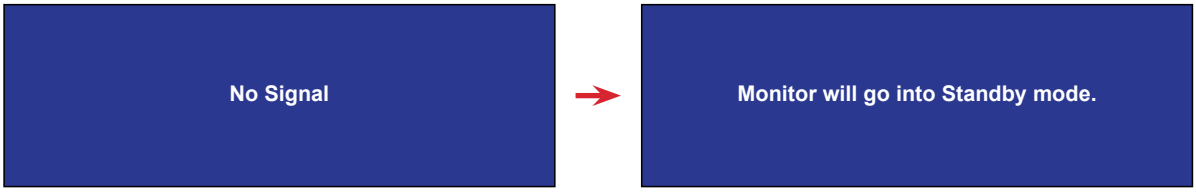


To select the input source, do the following:

1. Long press the **SELECT** button for 3 seconds. The Source Select menu will open.
2. Press the ▲ or ▼ button to select the input source ("**HDMI**" or "**Type-C**") or select "**Auto**" to allow the monitor to detect the input source automatically.
3. Press the **SELECT** button to confirm the selection.
4. Press the **MENU** button (repeatedly if necessary) to close the Source Select menu.

NOTE:

- *If the monitor does not detect the selected input source, it will first display "No Signal" message on the screen, then followed by the "Monitor will go into Standby mode" message.*



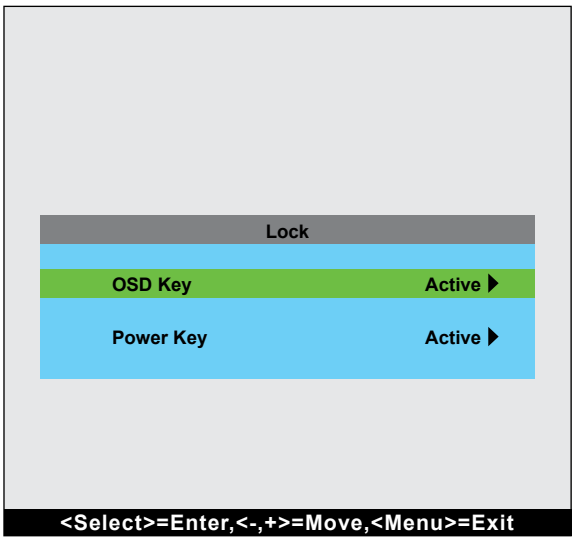
- *While in Standby mode, press the* **SELECT** *button for 1 second to wake the monitor. Then select* **Auto** *or switch to another input source.*

Lock or unlock the control buttons

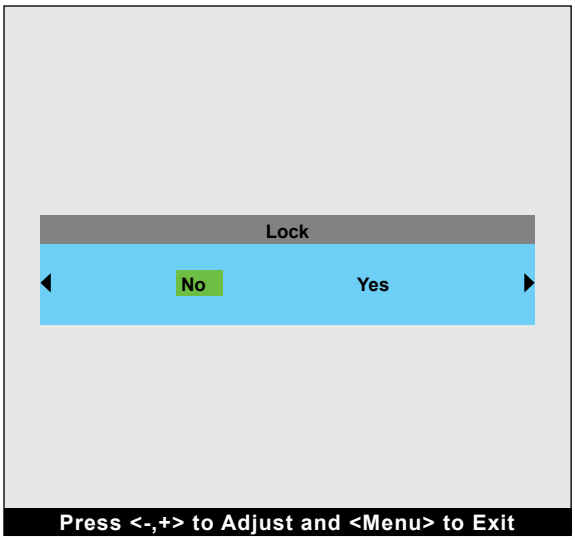
To prevent unauthorized access to the monitor settings, you can lock all the control buttons except for the ⏻ button or lock only the ⏻ button.

To lock or unlock all the control buttons except for the ⏻ button, do the following:

1. Press the **MENU** and ▼ buttons simultaneously. The Lock menu will open:



2. Press the ▲ or ▼ button to select "**OSD Key**". Then press the **SELECT** button. The Lock confirmation menu will open:

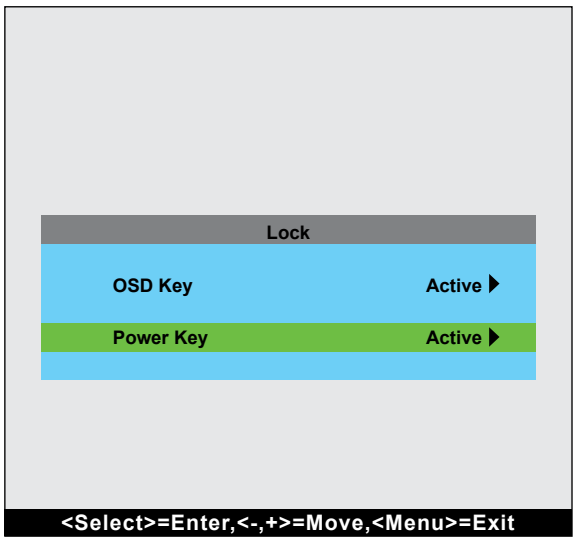


3. Press the ▲ or ▼ button to select "**Yes**" to lock the control buttons. Then press the **SELECT** button to confirm.

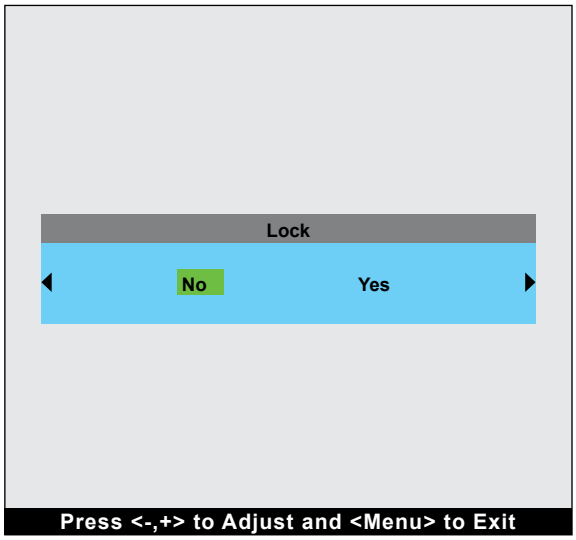
4. To unlock the control buttons, repeat steps 1 to 2 and in step 3 select "**No**". Then press the **SELECT** button to confirm.

To lock or unlock the ⏻ button, do the following:

1. Press the **MENU** and ▼ buttons simultaneously. The Lock menu will open:



2. Press the ▲ or ▼ button to select "**Power Key**". Then press the **SELECT** button. The Lock confirmation menu will open:



3. Press the ▲ or ▼ button to select "**Yes**" to lock the ⏻ button. Then press the **SELECT** button to confirm.

4. To unlock the ⏻ button, repeat steps 1 to 2 and in step 3 select "**No**". Then press the **SELECT** button to confirm.

Enable or disable touch operations

By default, the touch operations function is enabled.

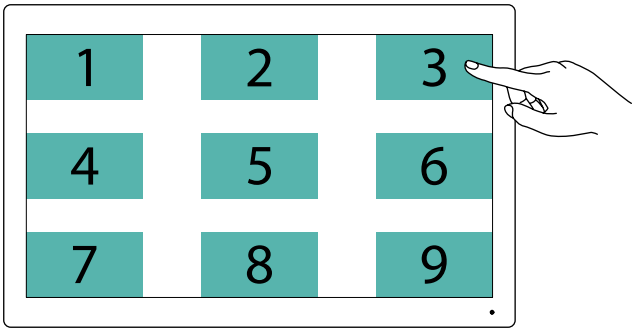
- To disable touch operations, press the **MENU** and **SELECT** buttons simultaneously. The following message will open:



- When the touch operations function is disabled, press the **MENU** and **SELECT** buttons for 5 seconds simultaneously to reactivate the function.

Touch awakened OSD menu

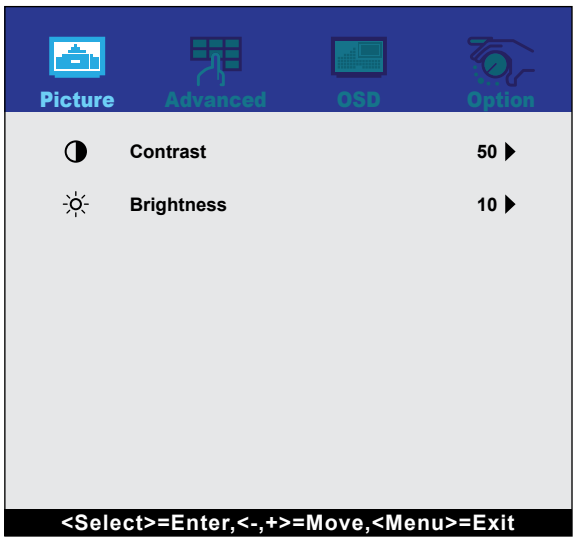
To awaken the OSD menu by touch operation, do not touch the screen for more than 3 seconds and then touch the screen in the areas "3", "6", and "9" as illustrated below:



Configuring the device settings

OSD menu navigation

To open the OSD menu, press the **MENU** button on the control panel.



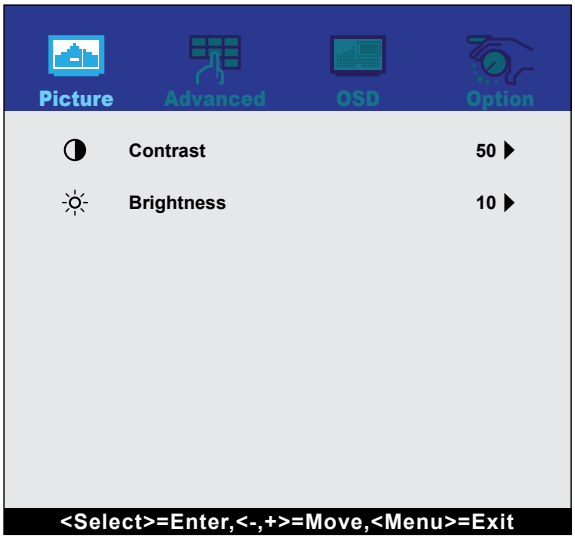
To configure the monitor settings using the control buttons, do the following:

1. Press the ▲ and ▼ button to select the menu item.
2. Press the **SELECT** button to enter the submenu.
3. Press the ▲ and ▼ button to select the submenu item.
4. Press the **SELECT** button to start configuring the item settings.
5. Press the ▲ and ▼ button to select the setting or adjust the value.
6. Press the **SELECT** button to confirm the setting (if necessary).
7. Press the **MENU** button to return to the previous menu or press the **MENU** button repeatedly to close the OSD menu

OSD menu functions

Picture menu

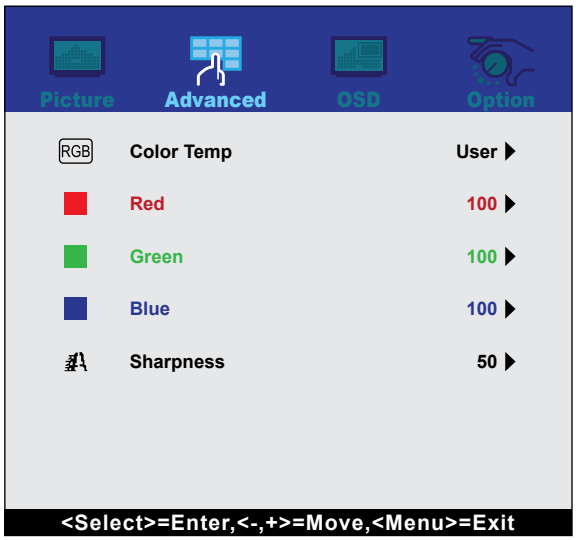
Configure the picture settings.



Item	Description	Options
Contrast	Adjust the contrast level.	0 to 100
Brightness	Adjust the brightness level.	0 to 100

Advanced menu

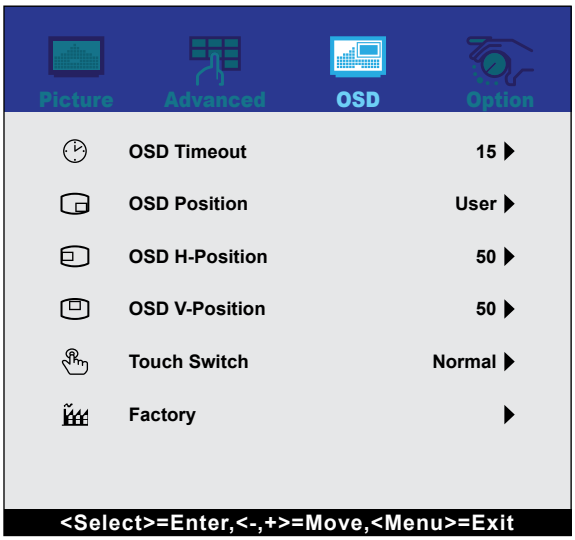
Configure the advanced settings.



Item	Description	Options
Color Temp	Select the preferred color temperature. • If you select "**User**" as the color temperature, then you can customize "**Red**", "**Green**", and "**Blue**" from "**0**" to "**100**".	5500K 6500K 7500K 9300K User
Sharpness	Adjust the sharpness of the screen image.	0 to 100

OSD menu

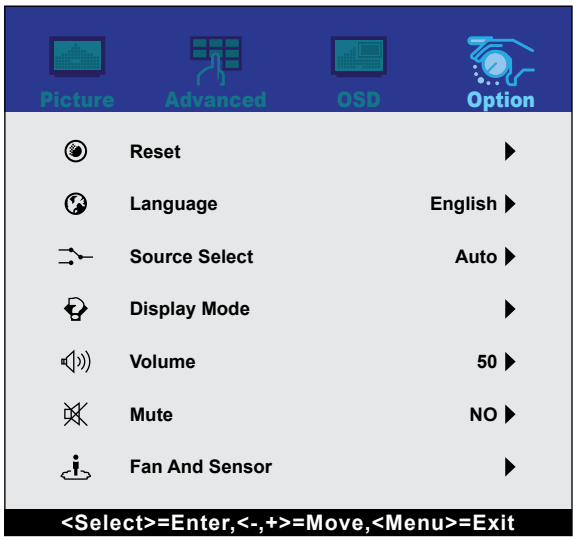
Configure the OSD menu settings.



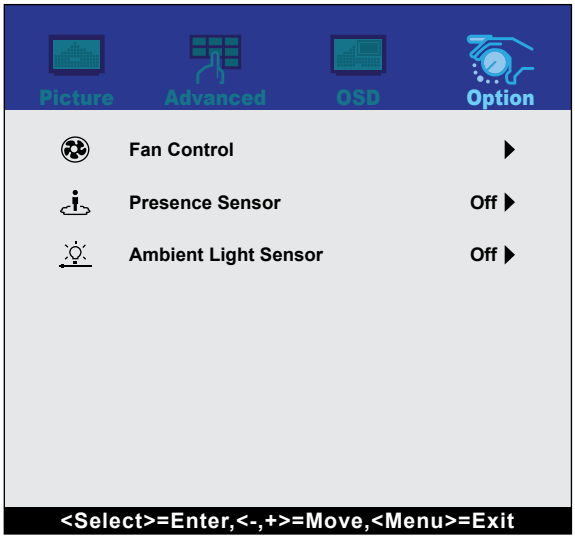
Item	Description	Options
OSD Timeout	Select the time period for the OSD menu to remain on the screen.	5 to 60
OSD Position	Select the OSD menu position on the screen.	
OSD H-Position	Adjust the horizontal position of the OSD menu.	0 to 100
OSD V-Position	Adjust the vertical position of the OSD menu.	0 to 100
Touch Switch	Select the preferred mode for screen touch operations.	Normal Glove Rain Proof
Factory	This function is for maintenance personnel. Do not operate this function.	N/A

Option menu

Configure the options.



Item	Description	Options
Reset	Reset the monitor settings to the factory defaults.	Yes No
Language	Select the preferred OSD language.	English Français Deutsch Italiano Español 日本語 繁中 簡中
Source Select	Select the preferred input source. ***NOTE:*** *If you select "**Auto**" as the source then the monitor detects the input automatically.*	Auto HDMI Type-C
Display Mode	View the current source, resolution, horizontal and vertical frequency of the monitor.	N/A
Volume	Adjust the volume level.	0 to 100
Mute	Mute or unmute the internal speaker.	Yes No

Item	Description	Options
Fan and Sensor	Configure the fan and sensors related settings.  • Fan Control: When enabled, the system will automatically adjust the fan speed depending on the internal temperature of the device. (When operating, set "**Fan Control**" to ON to prevent the temperature from getting too high.) • Presence Sensor: When enabled, if no user is detected within 1 meter of the display for 60 seconds, the backlight will automatically switch to the mode configured in the OSD menu. When a user approaches the display (within 1 meter), the backlight will turn on immediately. • Ambient Light Sensor: When enabled, the system will automatically adjust the brightness depending on the ambient light.	On Off

M1-101OD-A1 model & M1-215OD-A1 model

Sensor Temp.	Fan RPM (error rate ≤ 10%)
-20~39	0 rpm
40~48	3700 rpm
49~54	5400 rpm
55~59	7100 rpm
60	8100 rpm

There is a fan with a speed attenuation greater than 50% of the preset value, the following warning will be displayed, indicating that you need to clean the fan and reduce the brightness by 70%.



There is a fan with a speed attenuation greater than 90% of the preset value, the following warning will be displayed, indicating that the fan is abnormal and has reduce the brightness by 90%.At the same time, the two fans will be turned off.



M1-27OD-A1 model

Sensor Temp.	Fan RPM (error rate ≤ 10%)
-20~39	0 rpm
40~48	2325 rpm
49~54	2775 rpm
55~59	3550 rpm
60	3850 rpm

There is a fan with a speed attenuation greater than 50% of the preset value, the following warning will be displayed, indicating that you need to clean the fan and reduce the brightness by 70%.



There is a fan with a speed attenuation greater than 90% of the preset value, the following warning will be displayed, indicating that the fan is abnormal and has reduce the brightness by 90%. At the same time, the two fans will be turned off.



Appendix

In this section, you will find monitor specifications, dimensions, supported resolutions, and more.

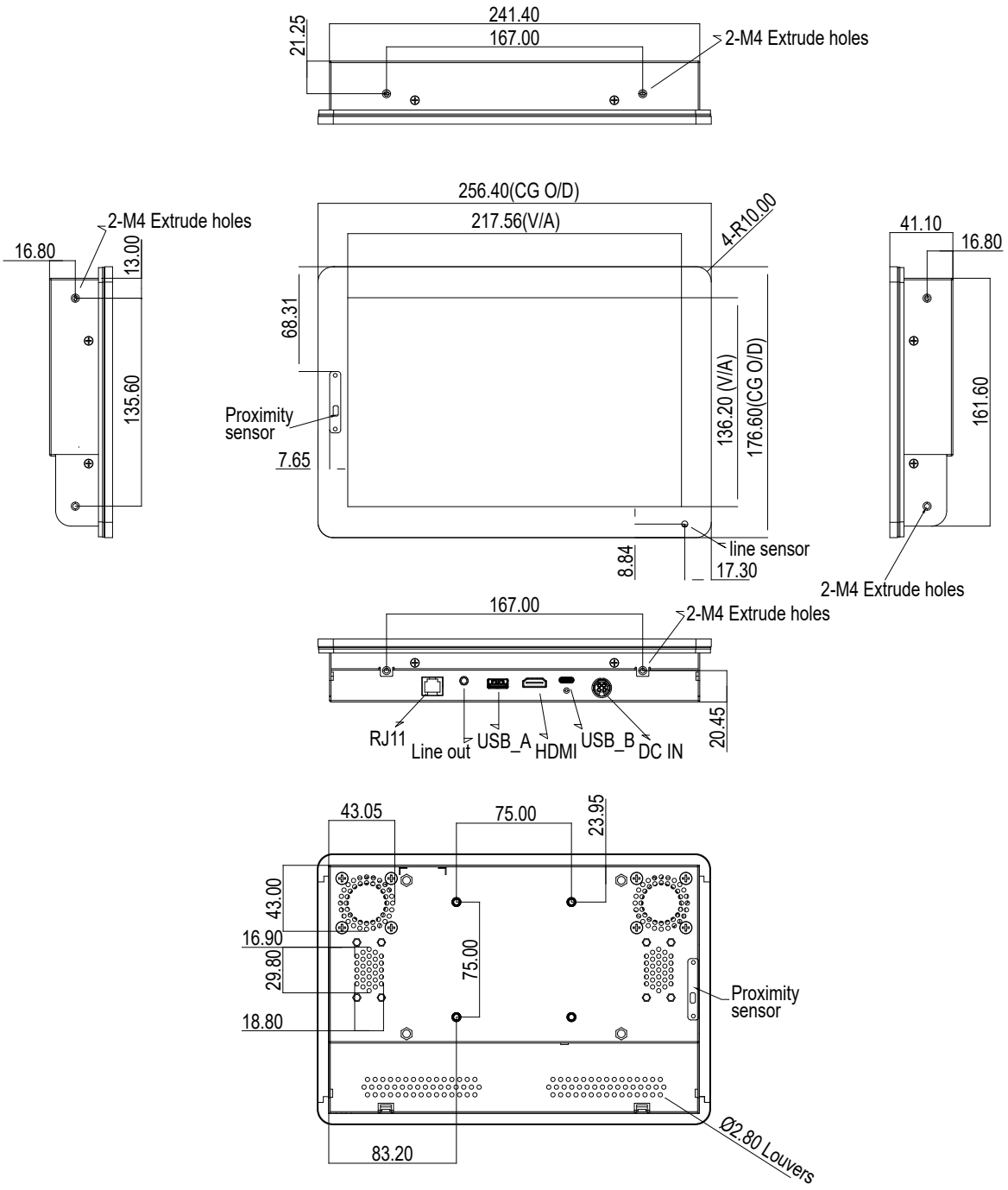
Specifications

Item	Description		
	M1-101OD-A1	M1-215OD-A1	M1-27OD-A1
LCD Display			
Size	10.1" TFT LCD	21.5" TFT LCD	27" TFT LCD
Maximum Resolution	1280 x 800	1920 x 1080	1920 x 1080
Contrast Ratio	1000:1 (typ.)	500 (typ.)	3000 (typ.)
Brightness (P-CAP-touch)	1275 cd/m^2 (typ.)	1275 cd/m^2 (typ.)	1275 cd/m^2 (typ.)
Touch LCD Display			
Touch Point	• Normal Mode: 10pts • Glove Mode: 5pts • Rain Proof Mode: 1pts **Note:** • The touch performance of Rain Proof Mode is limited: Supported one finger click touch without ghost spots in the rain (IPX4 Rain Volume).		
Touch Size	≥Φ 9mm		
Response Time	35ms (max.)		
Audio			
Speaker	2W x2		
IO Ports			
Video input	• HDMI x1 • USB Type-C x1		
Signal input	RJ11 x1		
USB 3.0	USB Type-A x1		
Audio input	N/A		
Line output	Line Out Jack x1		
Power input	DC In Jack x1		

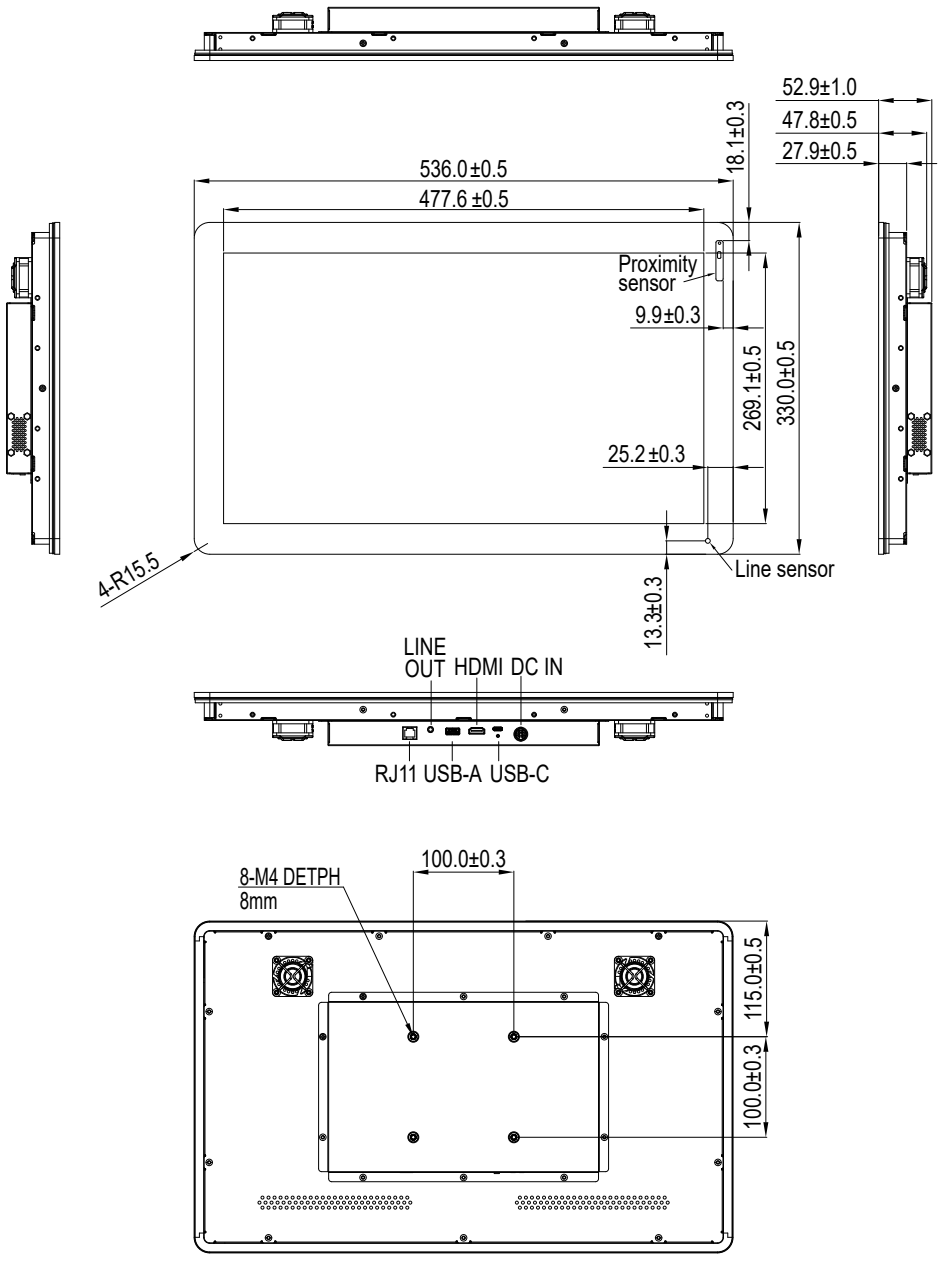
Item	Description		
	M1-101OD-A1	M1-215OD-A1	M1-27OD-A1
Physical Properties			
Power Input	100VAC ~240VAC, 50/60Hz		
Dimensions (W x H x D)	256.4 x 176.6 x 41.1 mm	536 x 330x 52.9 mm	658 x 414.9 x 66.3 mm
Net Weight	1.98 kg	6.9 kg	13.85 kg
VESA Mounting	75 x 75 mm	100 x 100 mm	300 x 100 mm
Environment			
Operating conditions	• Temperature: -20°C to 60°C (Independent of altitude) • Humidity: 20% to 80% (non-condensing)		
Storage conditions	• Temperature: -30°C to 80°C (Independent of altitude) • Humidity: 10% to 90% (38.7°C maximum wet bulb temperature)		

Dimensions

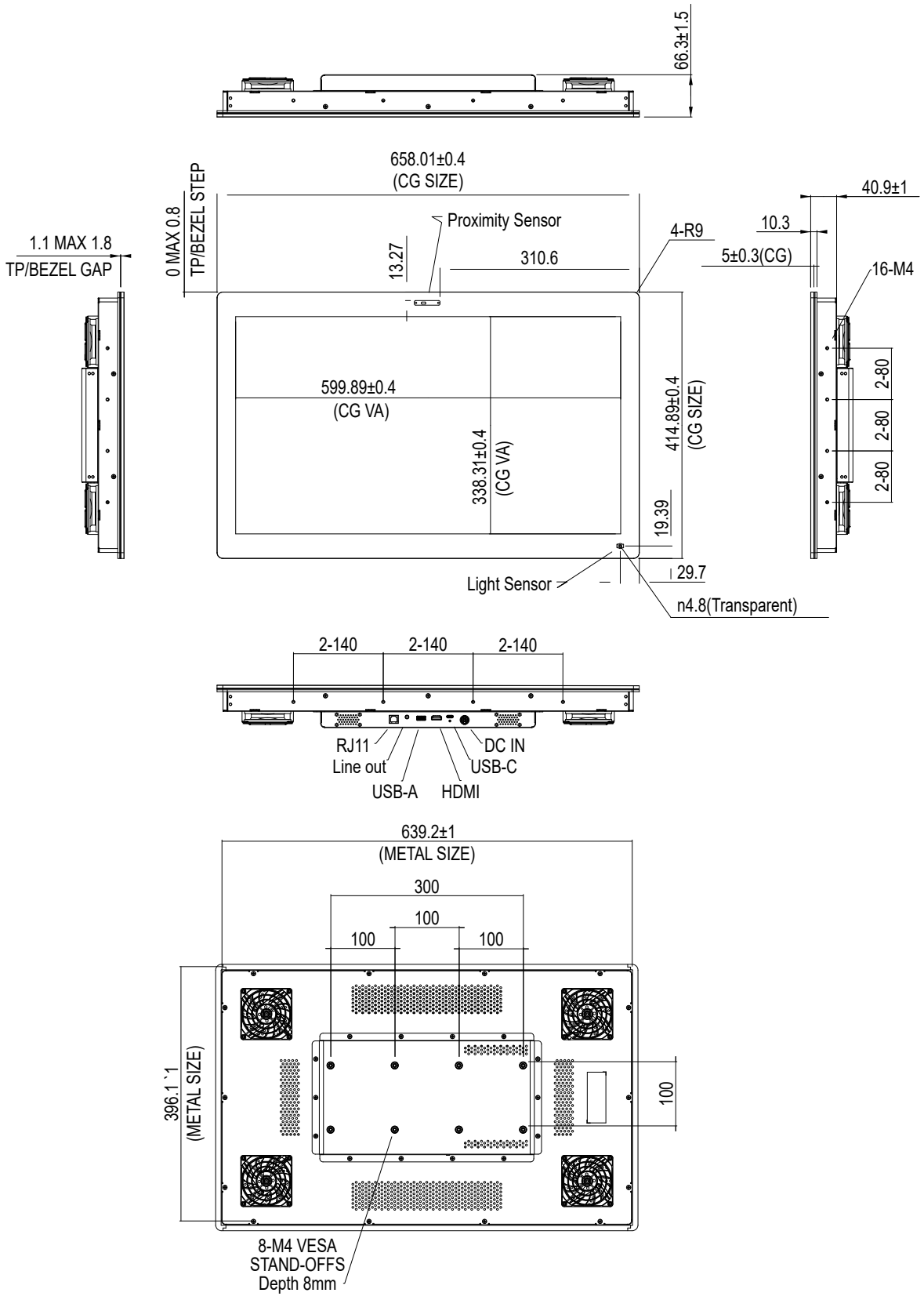
M1-101OD-A1



M1-215OD-A1


52.9±1.0
47.8±0.5
27.9±0.5
18.1±0.3
536.0±0.5
477.6±0.5
Proximity sensor
9.9±0.3
269.1±0.5
330.0±0.5
25.2±0.3
4-R15.5
Line sensor
13.3±0.3
LINE OUT
HDMI
DC IN
RJ11
USB-A
USB-C
100.0±0.3
8-M4 DETPH 8mm
115.0±0.5
100.0±0.3

M1-27OD-A1


66.3±1.5
658.01±0.4
(CG SIZE)
Proximity Sensor
13.27
310.6
4-R9
40.9±1
10.3
5±0.3(CG)
16-M4
1.1 MAX 1.8
TP/BEZEL GAP
0 MAX 0.8
TP/BEZEL STEP
599.89±0.4
(CG VA)
338.31±0.4
(CG VA)
414.89±0.4
(CG SIZE)
2-80
2-80
2-80
19.39
29.7
Light Sensor
n4.8(Transparent)
2-140
2-140
2-140
RJ11
Line out
USB-A
HDMI
DC IN
USB-C
639.2±1
(METAL SIZE)
300
100
100
100
396.1±1
(METAL SIZE)
100
8-M4 VESA
STAND-OFFS
Depth 8mm

Supported timings

M1-101OD-A1

Resolution	Horizontal Frequency (KHz)	Bandwidth (MHz)	Polarity	
			H	V
640x480 60Hz	31.47	25.175	-	-
800x600 60Hz	37.88	40	+	+
1024x768 60 Hz	48.363	65	-	-
1280x800 60 Hz	49.702	83.5	-	+

M1-215OD-A1

Resolution	Horizontal Frequency (KHz)	Bandwidth (MHz)	Polarity	
			H	V
VESA 640x480 60Hz	31.47	25.175	-	+
VESA 800x600 60Hz	37.88	40	-	-
VESA 1024x768 60Hz	48.363	65	-	-
SXGA 1280x1024 60Hz	64	108	-	-
SXGA 1280x960 60Hz	60	108	-	-
WXGA+ 1440x900 60Hz	56	106.5	+	+
WSXGA+ 1680x1050 60Hz	65.2	146	+	+
VESA 1280x768 60Hz	47.776	79.5	+	+
1920x1080 60Hz	67.5	148.5	+	+

M1-27OD-A1

Resolution	Horizontal Frequency (KHz)	Bandwidth (MHz)	Polarity	
			H	V
VGA 720x400 70Hz	31.47	28.322	-	+
VGA 640x480 60Hz	31.47	25.175	-	-
MAC 640x480 67Hz	35	32.24	-	-
VESA 640x480 72Hz	37.86	31.5	-	-
VESA 640X480 75Hz	37.5	31.5	-	-
VESA 800x600 56Hz	35.16	36	+	+
VESA 800x600 60Hz	37.88	40	+	+
VESA 800x600 75Hz	46.88	49.5	+	+
VESA 800x600 72Hz	48.08	50	+	+
MAC 832x624 75Hz	49.72	57.283	-	-
VESA 1024x768 60Hz	48.36	65	-	-
VESA 1024x768 70Hz	56.48	75	-	-
VESA 1024x768 75Hz	60.02	78.75	+	+
SXGA 1280x1024 60Hz	64	108	+	+
SXGA 1280x1024 75Hz	80	135	+	+
SXGA 1152x864 75Hz	67.5	108	+	+
SXGA 1280x960 60Hz	60	108	+	+
WXGA+ 1440x900 60Hz	56	106.5	-	+
WXGA+ 1440x900 75Hz	70.6	136.75	-	+
WSXGA+ 1680x1050 60Hz	65.2	146	-	+
VESA 1280x768 60Hz	47.776	79.5	-	+
1920x1080 60Hz	67.5	148.5	+	+

Troubleshooting

This section describes some common problems that you may experience when using the device and provides some general guidelines and solutions for troubleshooting.

If the suggested solutions fail to resolve the problem, please contact your dealer or our service center.

Problem	Possible Solutions
Monitor does not turn on	• Ensure the power adapter is properly connected to the monitor and to the electrical outlet. • Ensure the pins of the power cord are not crooked or broken.
No image appears on the screen	• Ensure all the I/O connectors between the monitor and the computer are correctly and well connected. • Ensure the pins of the signal cables are not crooked or broken.
Partial image or incorrectly displayed image	Check to see if the resolution of your computer is higher than that of the LCD display. Refer to the list of supported resolutions on pages 46~47.
Screen image is too bright or dark	Adjust the Brightness in the OSD menu (refer to page 34) or by pressing the Brightness hotkey (refer to page 27).
The screen image has color defects	• Ensure the pins of the signal cables are not crooked or broken. • Try different color temperatures. Refer to page 35. • Reset the monitor via OSD menu. Refer to page 37.
Control buttons have no response	Ensure the control buttons are not locked. Refer to pages 30~30.
Screen has no touch response	Ensure the touch function is not disabled. Refer to page 32.

Maintenance

The device does not require any routine maintenance other than occasional cleaning the areas of the device.

All the maintenance and repair should operate by a qualified, factory-trained technician.

Cleaning

Enclosure:

- Gently wipe all exterior surfaces with a soft, lint-free cloth dampened with distilled water or 70% isopropyl alcohol.
- If a 70% isopropyl alcohol is used, remove any residual cleaning material by wiping all exterior surfaces with a soft, lint-free cloth dampened with distilled water afterwards.

NOTE:

Do not use the following products for cleaning the screen of the device:

- *MEK (Methyl Ethyl Ketone)*
- *Toluene*
- *Acetone*
- *Benzene or thinner*
- *Acid*
- *Alkaline or abrasive detergents*
- *Chemical cleaning cloths*

Equipment name: Touch LCD Monitor						
Type designation (Type): M1-101OD-A1 / M1-215OD-A1 / M1-27OD-A1						
Component	**Restricted substances and their chemical symbols**					
	Lead (Pb)	**Mercury (Hg)**	**Cadmium (Cd)**	**Hexavalent chromium (Cr+6)**	**Polybrominated biphenyls (PBB)**	**Polybrominated diphenyl ethers (PBDE)**
Plastic Parts	○	○	○	○	○	○
Metal Parts	-	○	○	○	○	○
Cable components	-	○	○	○	○	○
LCD Panel	-	○	○	○	○	○
Touch Panel	-	○	○	○	○	○
PCBA	-	○	○	○	○	○
Software	○	○	○	○	○	○

NOTE:

- *"○" indicates that the percentage of the restricted substance does not exceed the permissible limit.*
- *"–" indicates that the restricted substance is exempt.*

www.MicroTouch.com | www.usorders@microtouch.com

MicroTouch Interactive | 200 E Broadway Ave 37804

The information presented in this user manual is intended as general information about MicroTouch products and is subject to change. Product specifications and warranties will be governed by MicroTouch Interactive. Standard terms and conditions of sale. Products are subject to availability. Copyright © 2025 MicroTouch Interactive. All rights reserved. Android is a trademark of Google LLC.