Intelligent Solution Managing Automation

iSMA-D-PA10C-B1
iSMA-D-PA15C-B1

User Manual

Android Panel PC

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Table of Contents

1 Introduction

1.1 Revision History

Rev	Date	Description
1.0	18.07.2019	First edition
1.1	27.03.2020	Company data updated

Table 1. Revision history

1.2 Safety Rules

Note: Incorrect wiring of this product can damage it and lead to other hazards. Make sure the product has been correctly wired before turning the power ON.

- Before wiring, or removing/mounting the product, be sure to turn the power OFF. Failure to do so might cause an electric shock.
- Do not touch electrically charged parts such as the power terminals. Doing so might cause an electric shock.
- Do not disassemble the product. Doing so might cause an electric shock or faulty operation.
- Use the product within the operating ranges recommended in the specification (temperature, humidity, voltage, shock, mounting direction, atmosphere, etc.). Failure to do so might cause a fire or faulty operation.
- Do not place the monitor on an unstable surface.
- Do not expose the monitor directly to sunlight or other heat sources.
- Unplug the power cable during a thunderstorm with lightning.
- Do not entwine or step on the power cord.
- Do not overload the wall socket.
- Clean the monitor with a dry, soft, lint free fabric.
- Do not expose the device to inappropriate temperatures, solvents, acid, water, or moisture.
- Avoid fragmentation or any other physical damage to the product or its components (such as shell, LCD/LED panel, port, circuits, etc.) that may be caused by insects or animals and may in effect lead to a resulting damage such as corrosion or moisture contamination.
- Do not install, repair, add, or alter the product by an unauthorized agent or person.
- Install the device under the guidance of the professional in a proper manner – wall-mounted or hanging from the ceiling.
- Unplug the power cable if the monitor is not used for a long time.

- Before powering the device, make sure the power voltage meets the device requirements.

1.3 Standards and Norms

1.3.1 EN 55022:2010+AC:2011

Electromagnetic compatibility of multimedia equipment. Emission Requirements.

1.3.2 EN 61000-3-2:2014

Electromagnetic compatibility (EMC). Limits for harmonic current emissions for equipment input current ⩽ 16 A per phase).

1.3.3 EN 61000-3-3:2013

Electromagnetic compatibility (EMC). Limits for voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ⩽ 16 A per phase.

1.3.4 EN 55024:2010 + A1:2015

Information technology equipment. Immunity characteristics. Limits and methods of measurement.

1.3.5 EN 60950-1:2006 + A11:2002 + A1:2010 + A12:2011 + A2:2013

Information technology equipment. Safety General requirements specifies requirements intended to reduce risks of fire, electric shock or injury for the OPERATOR and layman who may come into contact with the equipment and, where specifically stated, for a SERVICE PERSON.

1.4 Technical Specification

Panel Type	Industrial LCD panel A grade
Operating System	Android 7.1
Screen Type	LED; Backlight lifetime ⩾50000 h,
Size	10.1"/15.6"
Aspect Ratio	16:9
Resolution	1366x768/1920x1080
Luminance	Standard 300 nit
Contrast	800:1/1000:1

Active Area	222.7x125.2 mm/344.2x193.6 mm	
Display Color	16.7 M	
View Angle	80/80/80/80 / 89/89/89/89	
Response Time	5 ms	
Installation	Compatible with VESA, For embedding, Wall Mount	
Menu Languages	English, French, German, Spanish, Chinese, Italian, Russian, Portuguese, Arabic	
Touch Type	10-point capacitive touch screen	
Material	Metal/ Aluminum Alloy	
Interface	IP, RS232, TF/SD Card, USB 2.0, USB 3.0, USB C (OTG USB)/ USB 3.0 (OTG USB), HDMI (10" Panel), RJ45, Audio Output	
Power Port	DC 12 V	
Anti-interference	Anti-interference Electromagnetic Compatibility; Electromagnetic Interference	
Anti-vibration	5-19 HZ/1.0 mm Amplitude; 19-200 HZ/1.0 g Accelerated Speed	
Temperature	Operating temperature: -10°C to 60°C (14°F to 140°F)	Storage temperature: -10°C to 60°C (14°F to 140°F)
Humidity	Operation humidity: 10% to 80%	Storage humidity: 10% to 90%
Anti-static	4 KV-8 KV; (customized MAX 16 KV)	
Rated Voltage	AC100 V～240 V to DC 12 V-24 V	
Rated Frequency	50 Hz/60 Hz	
Power Supply	AC 110-240 V, 50/60 Hz	
Power Supply Adapter	EU, UK or US	
Power	Power consumption ≤30 W	Power standby ≤1.5 W
Dimensions	293.6x193.6x48.5 mm (11.560x7.622x1.909 in) /420.0x269.0x70.0 mm (16.535x10.591x2.756 in)	
IP	IP65 – for front panel	

Table 2. Technical specifications

1.5 Dimensions

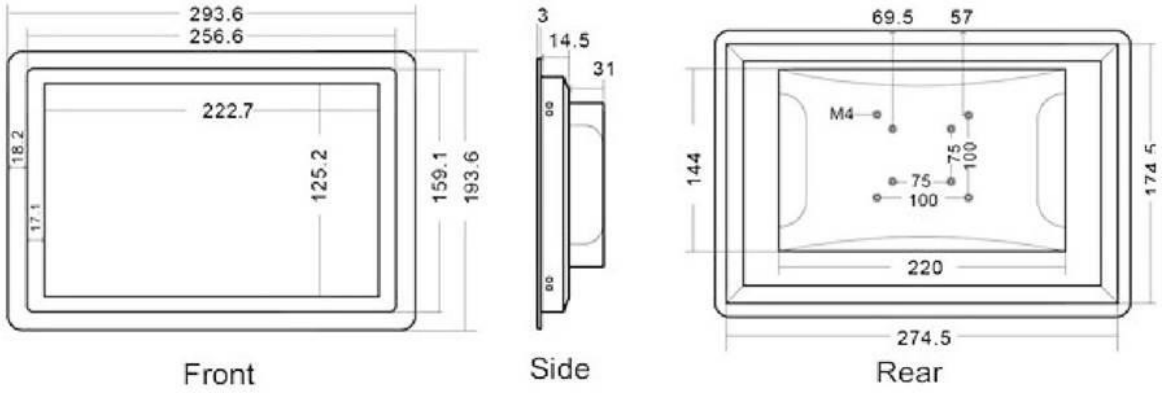

Figure 1. Dimensions of 10.1”

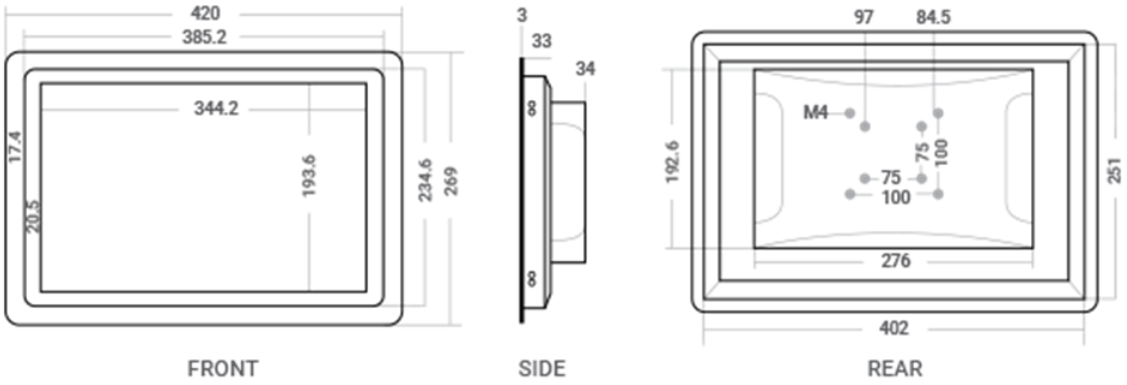

Figure 2. Dimensions of 15.6”

1.6 Interface Details

The Monitor will recognize and select the signal automatically. An exception is the USB in the OTG Mode: the USB port needs to be manually set to the OTG Mode. For full instruction see the point 1.7 Setting USB Port to OTG Mode. In the 10" Android Panel USB C is automatically set to the OTG Mode; there is no need to change the settings.

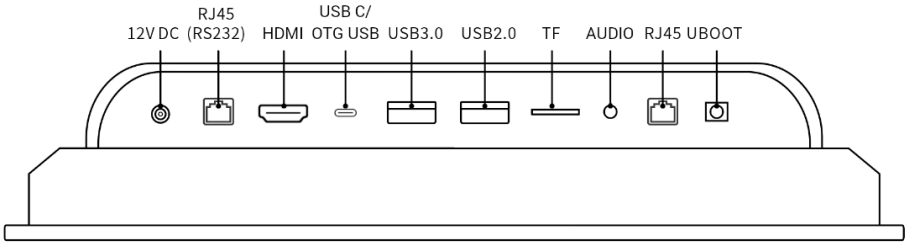

Figure 3. Interfaces of 10.1"

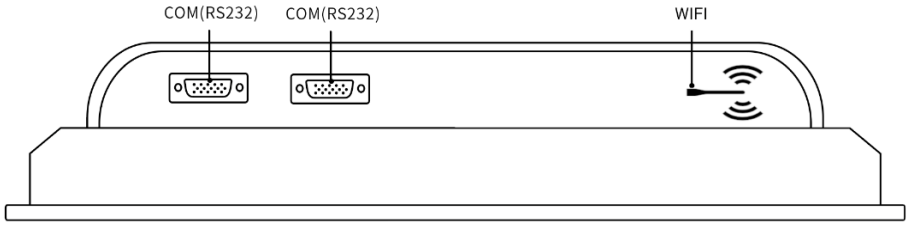

Figure 4. Interfaces of 10.1"

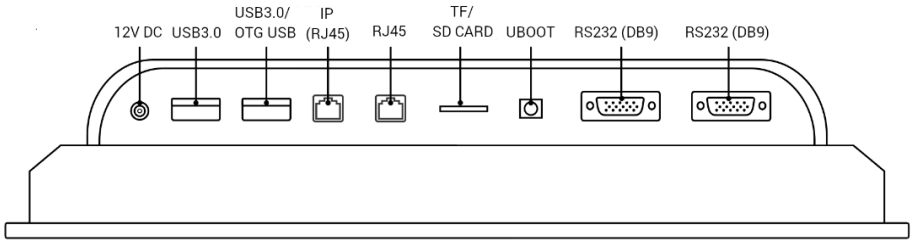

Figure 5. Interfaces of 15.6"

1.7 Setting USB Port to OTG Mode

1. Go to the main menu of the Android Panel PC – a round, white icon with dots at the bottom center of the screen:

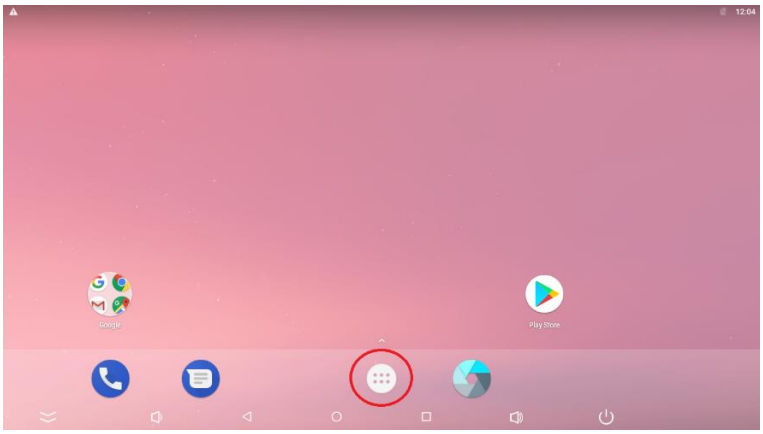

Figure 6. Main menu

2. Go to the Settings:

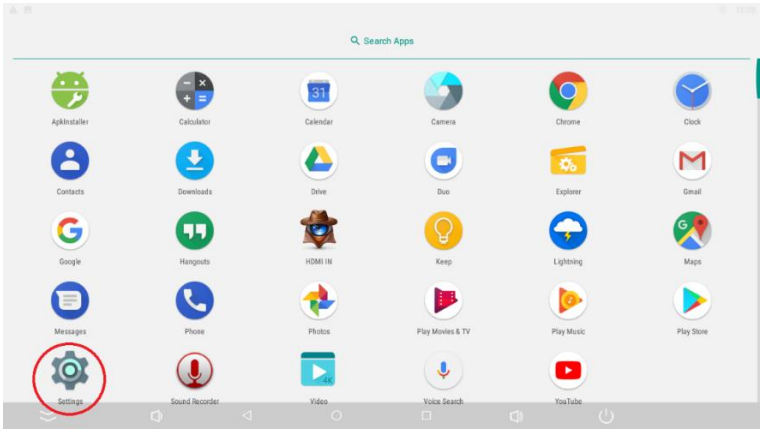

Figure 7. Settings

3. Go to the Developer options:

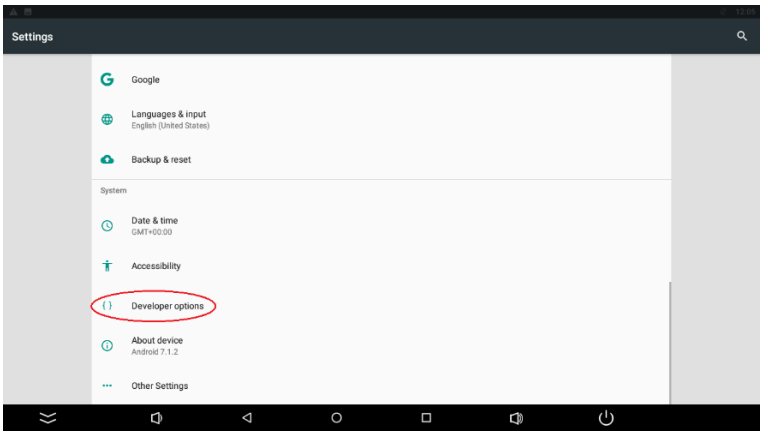

Figure 8. Developer options

4. Set the USB Mode to the OTG Mode and turn on USB debugging:

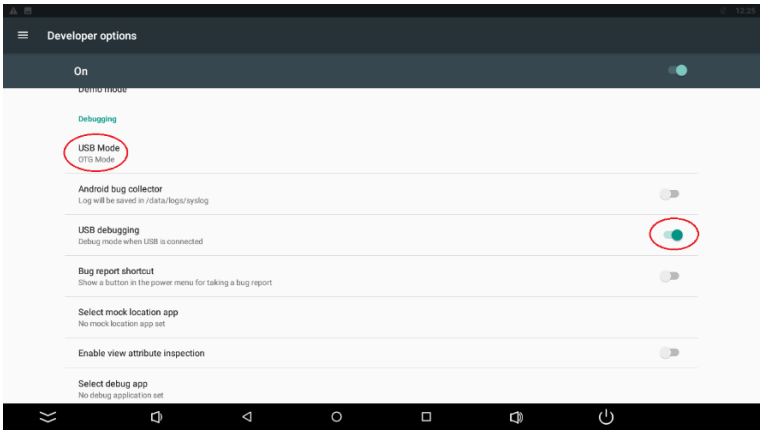

Figure 9. USB Mode and USB debugging

5. Set the USB Configuration to MTP:

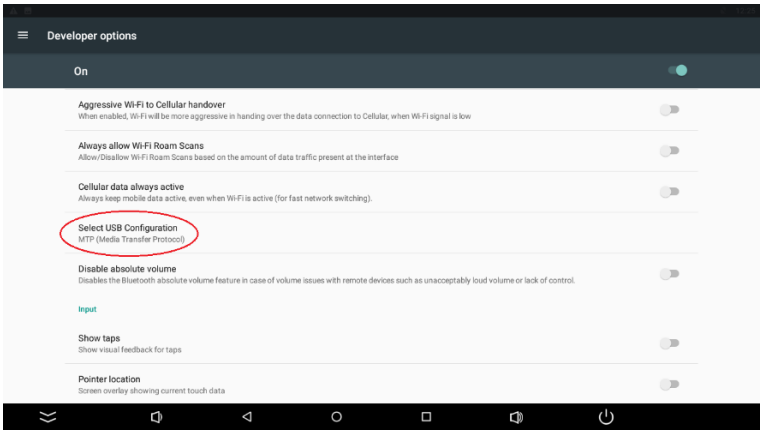

Figure 10. Select USB configuration

2 Operation Guide

2.1 Rear Navigation Buttons

The rear navigation buttons are used to turn the device on and off. Brightness +/- buttons are prepared for future development:

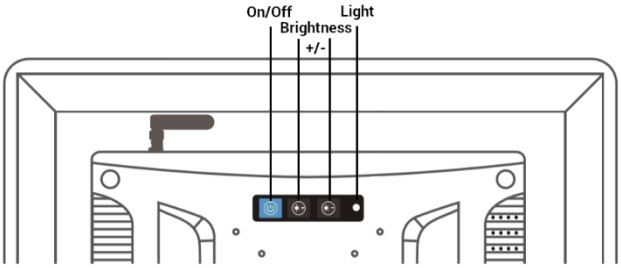

Figure 11. Rear navigation buttons

Symbol	Name	Using instruction
Brightness +/-	Choose +	Buttons prepared for future development
Brightness +/-	Choose -	
On/Off	On/Off button	Start-up/Shut down the monitor. The button has to be pressed for a few seconds for both turning on and off. When turning on, wait a few seconds after pressing the button.

Table 3. Operating method for rear navigation buttons

2.2 Setting Static IP Address

Follow the instruction to set a static IP address:

1. Follow steps 1 and 2 from the point 1.7 (go to the Settings of the Adroid Panel PC).
2. Go to the More option:

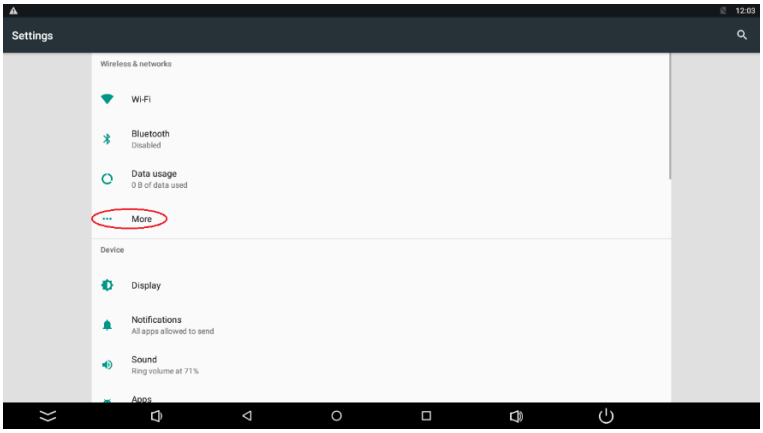

Figure 12. Settings - More

3. Go to the Ethernet:

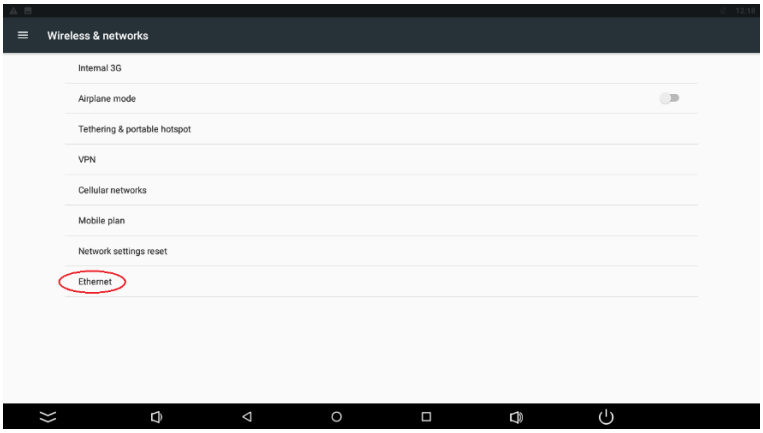

Figure 13. Ethernet

4. Go to the Ethernet IP mode:

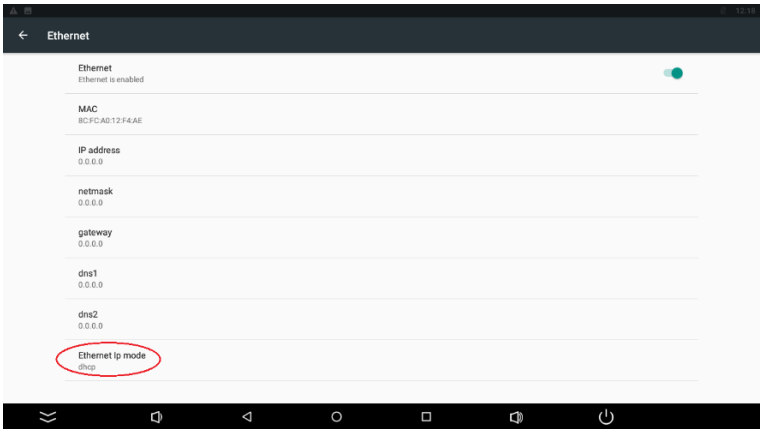

Figure 14. Ethernet IP mode

5. Choose the “static” option:

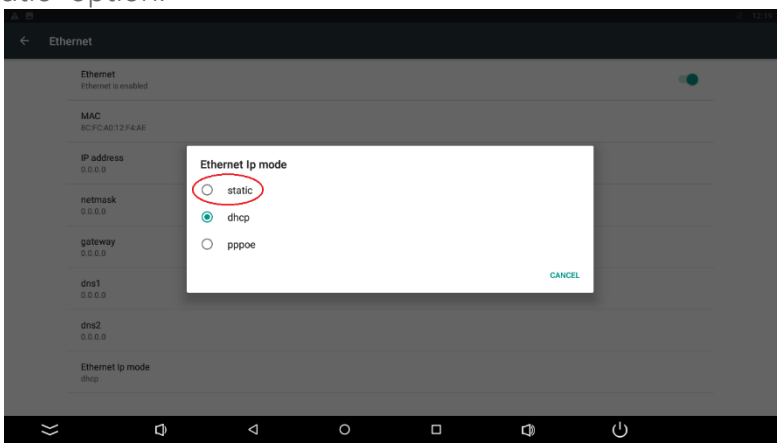

Figure 15. Setting Ethernet IP mode

6. Insert the IP address and other information and click CONNECT:

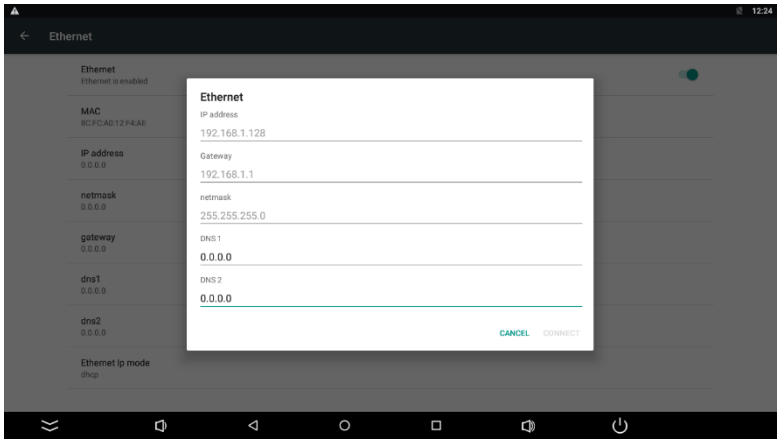

Figure 16. Inserting Ethernet information

3 Installation

- Do not place the monitor next to the radiator or heat source.
- Do not let any objects press or twine around the power cable or VGA cable.
- Do not place the monitor near a water source or humid places.
- Do not block off the back vents, which can dissipate heat generated inside it, to prevent damage of components.

3.1 Embed with Snap Joint Installation

Follow the below steps to install the monitor with four snap joints buckle hole:

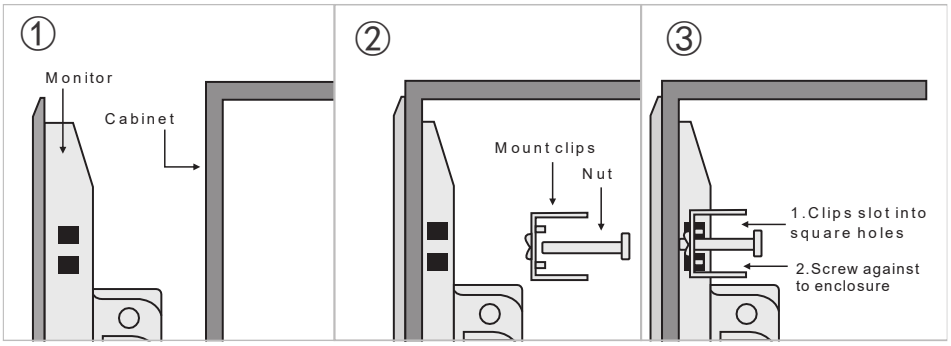

Figure 17. Embed with snap joint installation

3.2 Wall-mount Installation

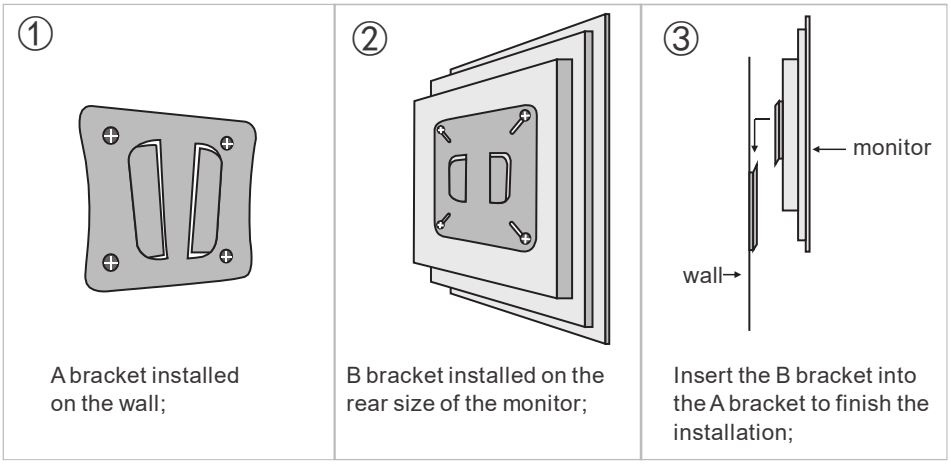

Figure 18. Wall mount installation