

USER'S MANUAL

AIO-200-MX Series

Industrial Touchscreen Monitor



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Prefaces

Revision

Revision	Description	Date
1.0	Manual Released	2025/6/16

Disclaimer

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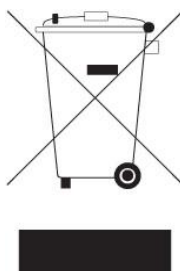
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Environmental Protection Announcement

Do not dispose this electronic device into the trash while discarding. Please recycle to minimize pollution and ensure environment protection.



Safety Precautions

Before installing and using the equipment, please read the following precautions:

- Put this equipment on a reliable surface during installation. Dropping it or letting it fall could cause damage.
- The power outlet shall be installed near the equipment and shall be easily accessible.
- Turn off the system power and disconnect the power cord from its source before making any installation. Be sure both the system and the external devices are turned OFF. Sudden surge of power could ruin sensitive components. Make sure the equipment is properly grounded.
- When the power is connected, never open the equipment. The equipment should be opened only by qualified service personnel.
- Make sure the voltage of the power source is correct before connecting the equipment to the power outlet.
- Disconnect this equipment from the power before cleaning. Use a damp cloth. Do not use liquid or spray detergents for cleaning.
- Avoid the dusty, humidity and temperature extremes.
- Do not place heavy objects on the equipment.
- If the equipment is not used for long time, disconnect it from the power to avoid being damaged by transient over-voltage.
- The storage temperature shall be above -20°C and below 60°C.
- The computer is provided with a battery-powered real-time clock circuit. There is a danger of explosion if incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer.
- If one of the following situation arises, get the equipment checked by service personnel:
 - The power cord or plug is damaged.
 - Liquid has penetrated into the equipment.
 - The equipment has been exposed to moisture.
 - The equipment does not work well or it cannot work according to the user's manual.
 - The equipment has been dropped and damaged.
 - The equipment has obvious signs of breakage.

Technical Support and Assistance

1. Visit the C&T Solution Inc website at <https://www.candtsolution.com/> where you can find the latest information about the product.
2. Contact your distributor, our technical support team or sales representative for technical support if you need additional assistance. Please have following information ready before you call:
 - Model name and serial number
 - Description of your peripheral attachments
 - Description of your software (operating system, version, application software, etc.)
 - A complete description of the problem
 - The exact wording of any error messages

Conventions Used in this Manual



WARNING

This indication alerts operators to an operation that, if not strictly observed, may result in severe injury.



CAUTION

This indication alerts operators to an operation that, if not strictly observed, may result in safety hazards to personnel or damage to equipment.



NOTE

This indication provides additional information to complete a task easily.

Package Contents

Before installation, please ensure all the items listed in the following table are included in the package.

Item	Description	Q'ty
1	AIO-200-MX Series Industrial Touchscreen Monitor	1
2	Adapter 60W 12V 5A	1
3	USB Cable for Touch	1
4	HDMI Cable	1

Ordering Information

Model No.	Description
1-E09A06012	Adapter Output 12V 5A 60W / Input 100-240V
1-TDPP00006	3 ft. DP-DP cable
1-THDM00008	3 ft. HDMI-HDMI cable
1-TUSB00084	3 ft. USB 2.0 Type A - Type B touch cable
1-TPWR00118	3P Terminal Block(Female) To DC Plug 5.5x2.5 With Lock 100 mm For AIO Series
1-ND800000100	3P male dinkle connector
3-AI101040S10	AIO-W210 Panel Mount Bracket Kit (AIO-W210-MX, only)
3-AI156040S10	AIO-W215 Panel Mount Bracket Kit (AIO-W215-MX, only)
3-AI215040S10	AIO-W221 Panel Mount Bracket Kit (AIO-W221-MX, only)
3-AI215080S10	AIO-W221C Cable Management KIT (AIO-W221-MX, only)
1-BH020C013	Screw Flat Head M3x5L SUS304 for cable-bkt (AIO-W221-MX, only)

Available Models

Model No.	Description
AIO-W210-MX	10.1" WXGA Capacitive Industrial Touchscreen Monitor, 1x HDMI, 1x Display Port
AIO-W215-MX	15.6" Full HD Capacitive Industrial Touchscreen Monitor, 1x HDMI, 1x Display Port
AIO-W221-MX	21.5" Full HD Capacitive Industrial Touchscreen Monitor, 1x HDMI, 1x Display Port

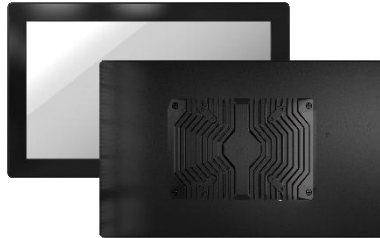
Chapter 1

Product Introductions

1.1 Overview



AIO-W210-MX



AIO-W215-MX



AIO-W221-MX

Key Features

- 10.1" / 15.6" / 21.5" Industrial Touchscreen Monitor
- Front IP65 for protection against water and dust
- Scratch Resistant 7H Glass Hardness IK07
- Versatile Display Outputs; HDMI and DP
- Anti-Noise CS 10V rms
- 0°C to 50°C extended operating temperature
- AIO-W210-MX: MTBF 30,000 Hours
- AIO-W215-MX / AIO-W221-MX: MTBF 50,000 Hours
- World Class Certifications for Safety and Reliability: CE/FCC/CB/UL/UKCA/IC



1.2 Hardware Specification

Display	AIO-W210-MX	AIO-W215-MX	AIO-W221-MX
LCD Size	10.1" (16:10)	15.6" (16:9)	21.5" (16:9)
Max. Resolution	1280 x 800 (WXGA)	1920 x 1080 (FHD)	1920 x 1080 (FHD)
Brightness (cd/m2)	400 nits	450 nits	400 nits
Contrast Ratio	800:1	1000:1	1,000:1
LCD Color	16.7M	16.7M	16.7M
Pixel Pitch (mm)	0.169(H) x 0.1695 (V)	0.17925 (H) x 0.17925 (V)	0.24795 (H) x 0.24795 (V)
Viewing Angle (H-V)	89/89/89/89 (Typ.) (CR>=10)	89 /89 /89 /89 (Typ.) (CR>=10)	89/89/89/89 (Typ.) (CR>=10)
Backlight MTBF	30,000 Hours	50,000 Hours	50,000 Hours

Touch

Touch Type	Projected Capacitive Touch
Surface Hardness	7H / IK07
Multi-touch	10 point (Support Glove Mode)
Anti-noise	CS 10V rms
Interface	USB Type B

I/O

DisplayPort	1x Display Port 1.1
HDMI	1x HDMI 1.4a
USB	2x USB 2.0 Type A 1x USB Type B for Touch
Speaker	Internal Speaker 2W+2W
OSD	On/Off, Menu, Adjust - and +, Exit
Audio	1x Line-out

Compliance Operating System

Windows	Windows 10 / Windows 11
Linux	Linux Ubuntu 22.04

Power

Power Adapter	60W with locking (12V 5A)
Power Supply Voltage	DC 12~24V
Power Connector	DC Jack 5.5mm/2.5mm (OD/ID)

Environment

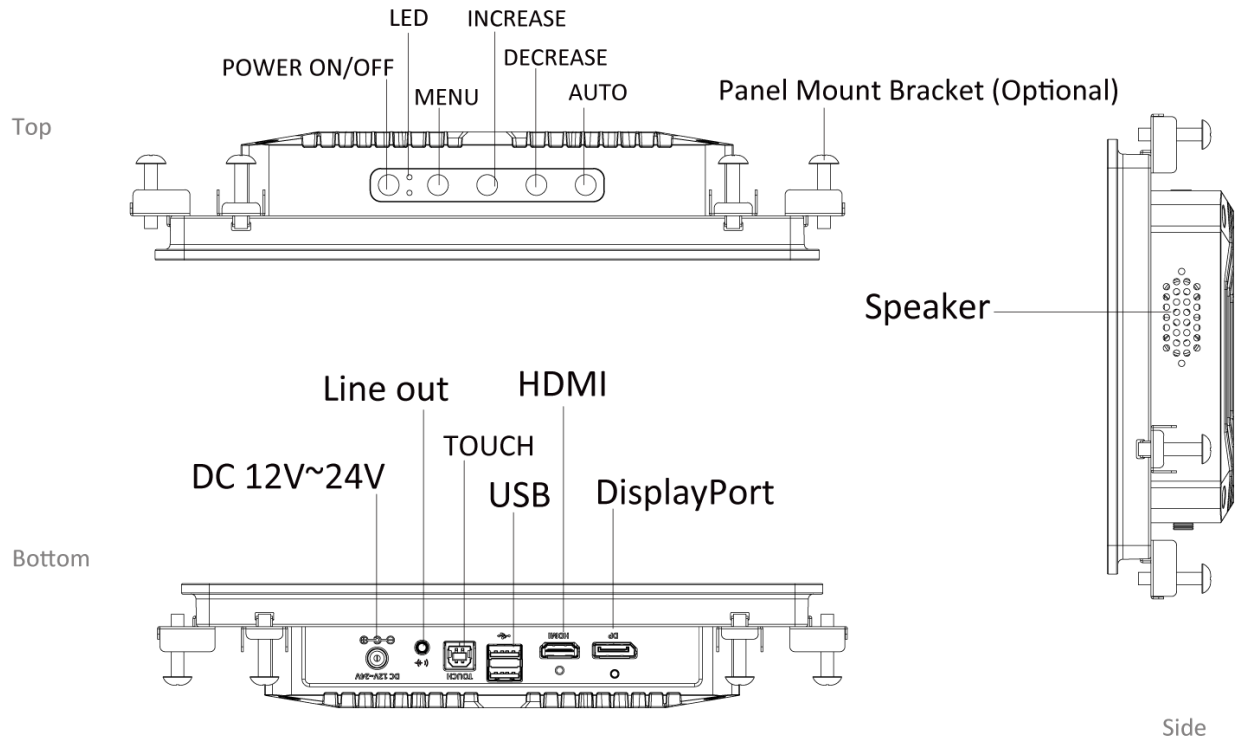
Operating Temp	AIO-W210-MX : -10°C to 50°C	AIO-W215-MX / AIO-W221-MX : 0°C to 50°C
	IEC60068-2-1:2007 (Cold test procedure) IEC60068-2-2:2007 (Dry heat test procedure) IEC60068-2-3:2007 (Damp heat, steady state, test procedure) IEC60068-2-14:2009 (Wide temperature range thermal shock)	
Storage Temp	-20°C to 60°C	
Relative Humidity	10% to 80% (non-condensing)	
Certification	AIO-W210-MX / AIO-W221-MX :	AIO-W215-MX :
	UL 62368 Ed. 3, CE, FCC Class A, CB, ICES-003, UKCA, RCM, VCCI	UL 62368 Ed. 3, UL 50E Type 12, CE, FCC Class A, CB, ICES-003, UKCA, RCM, VCCI
Vibration	3 Grms (5 - 500 Hz, 0.5 hr/axis) IEC60068-2-64:2008 Designed to comply with MIL-STD-810G Method 514.7 Procedure I	
Shock	20G half-sin 11ms IEC60068-2-27:2008 Designed to comply with MIL-STD-810G Method 516.7 Procedure I	

Physical

Dimension	- AIO-W210-MX : 256 (W) x 170 (H) x 50 (D) mm - AIO-W215-MX: 400 (W) x 249 (H) x 50 (D) mm - AIO-W221-MX: 538 (W) x 329 (H) x 62 (D) mm
Weight	- AIO-W210-MX : 1.4 Kg - AIO-W215-MX : 2.3 Kg - AIO-W221-MX : 5.2 Kg
Mounting	VESA Mount (75mm x 75mm/100mm x 100mm) Panel Mount (optional)

1.3 System I/O

1.3.1 AIO-W210-MX



USB port

Used to connect USB 2.0 device

DC IN

Used to plug a DC power input with terminal Block

Line out

Used to connect a speaker

DisplayPort

Used to connect a DisplayPort monitor

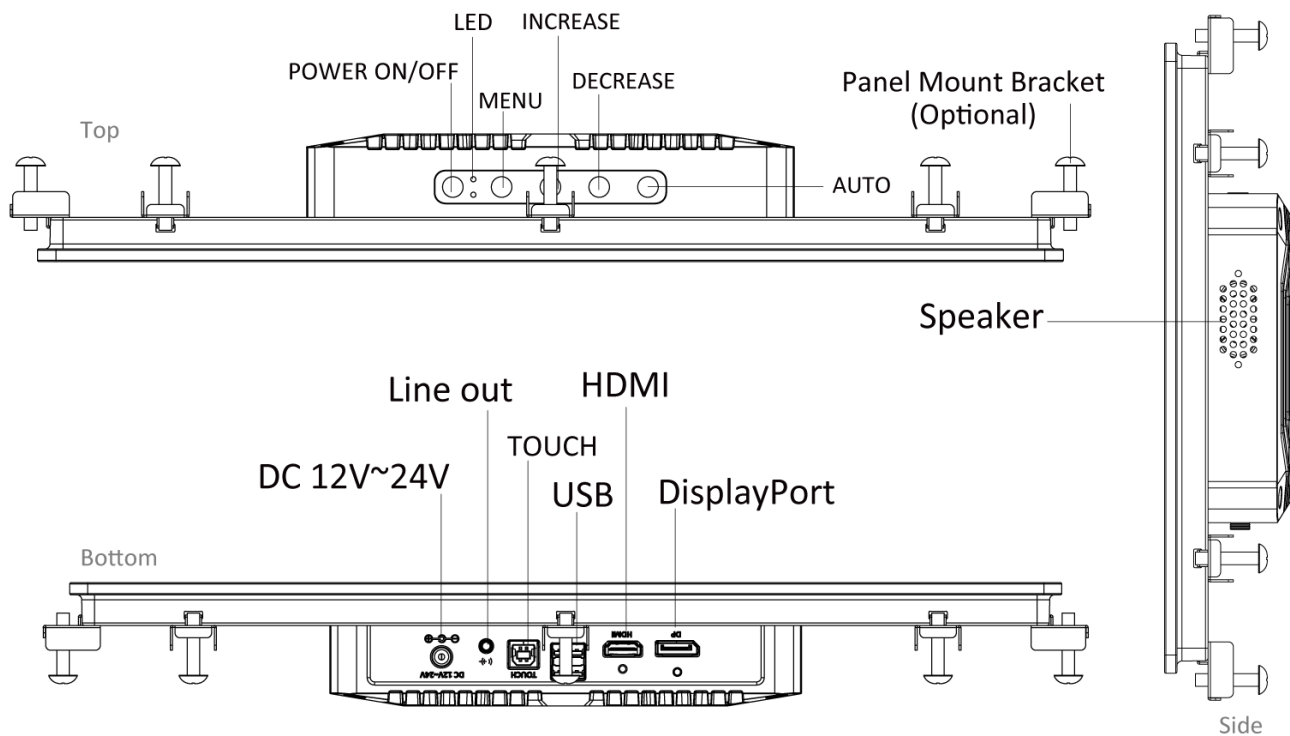
HDMI

Used to connect a HDMI monitor

TOUCH

Used to connect Touch function

1.3.2 AIO-W215-MX



USB port

Used to connect USB 2.0 device

DC IN

Used to plug a DC power input with terminal Block

Line out

Used to connect a speaker

DisplayPort

Used to connect a DisplayPort monitor

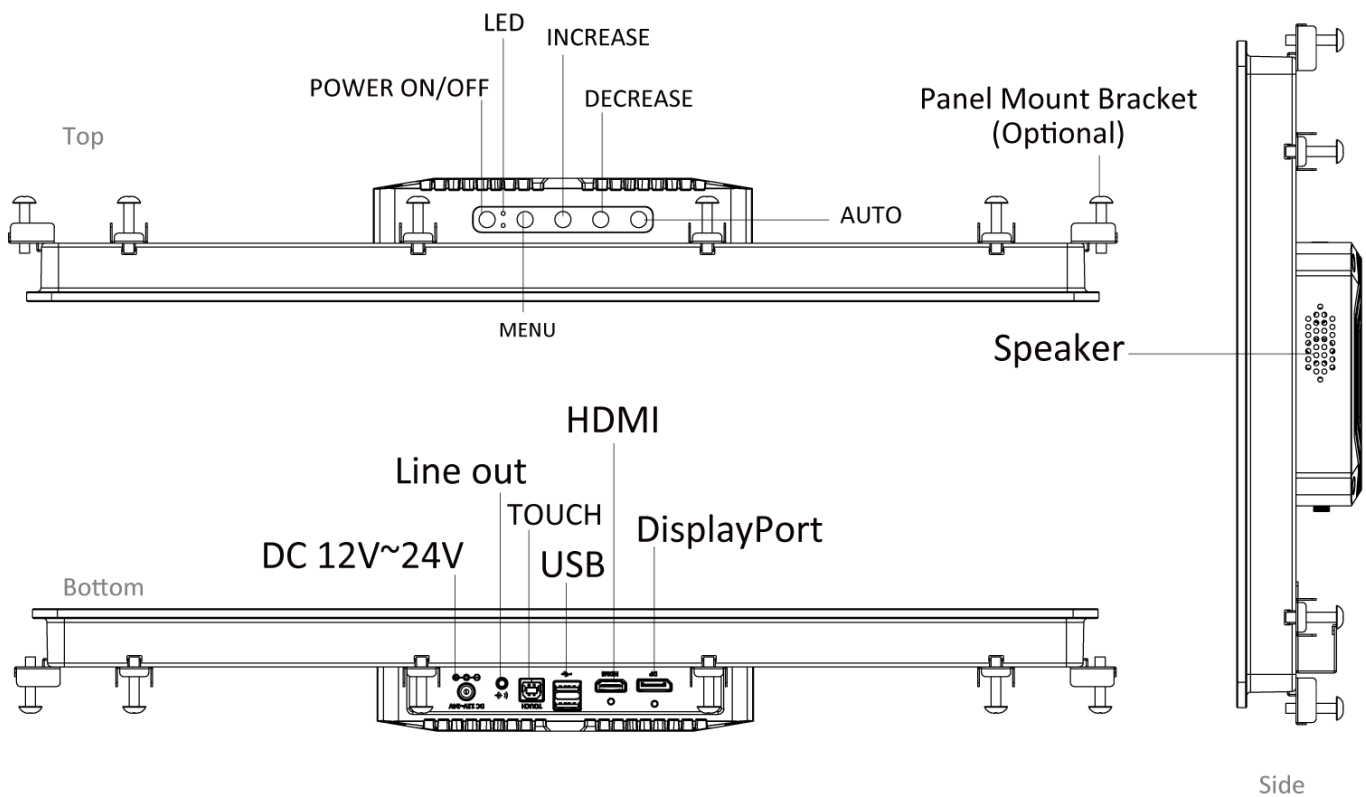
HDMI

Used to connect a HDMI monitor

TOUCH

Used to connect Touch function

1.3.3 AIO-W221-MX



USB port

Used to connect USB 2.0 device

DC IN

Used to plug a DC power input with terminal Block

Line out

Used to connect a speaker

DisplayPort

Used to connect a DisplayPort monitor

HDMI

Used to connect a HDMI monitor

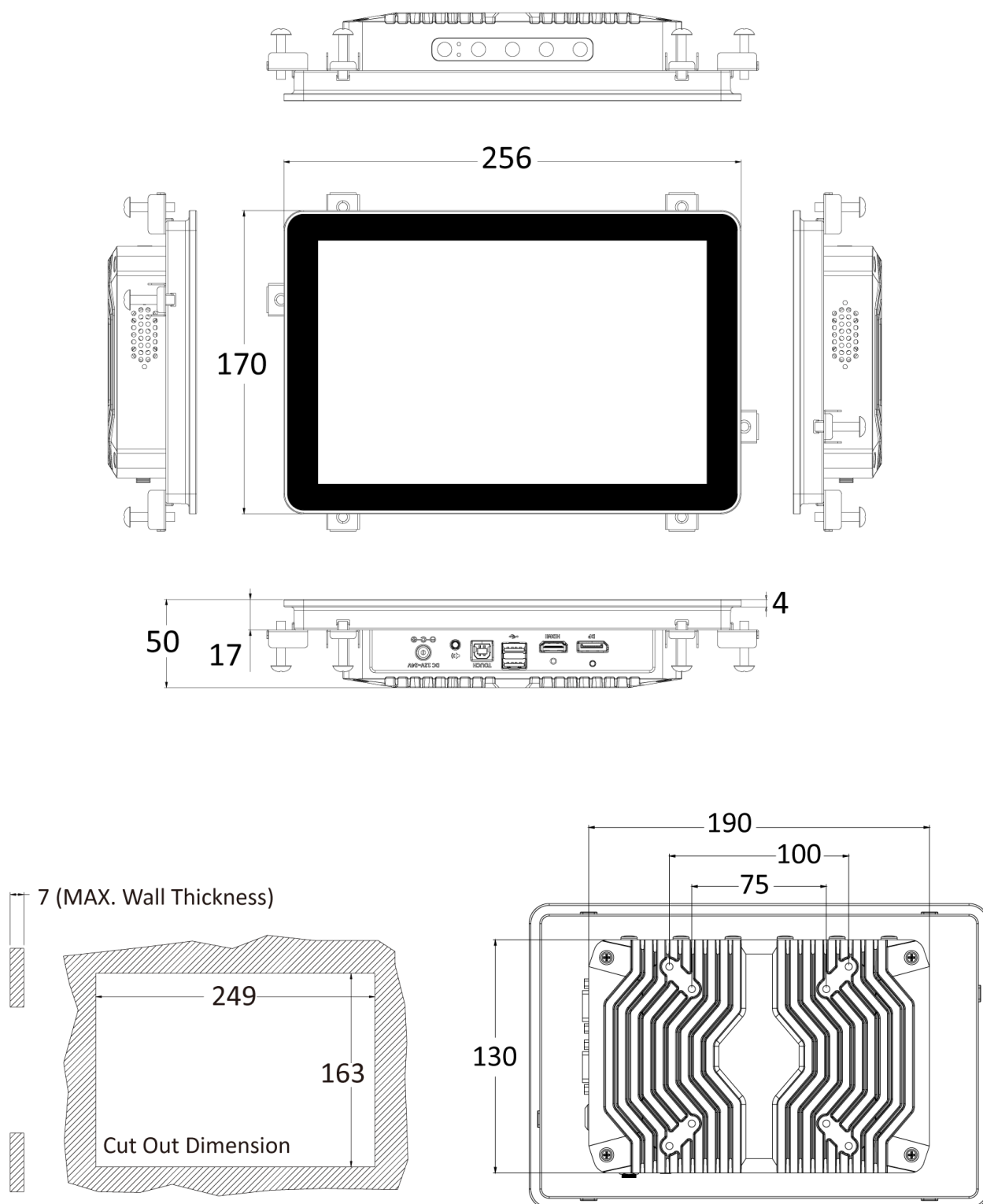
TOUCH

Used to connect Touch function

1.4 Mechanical Dimensions

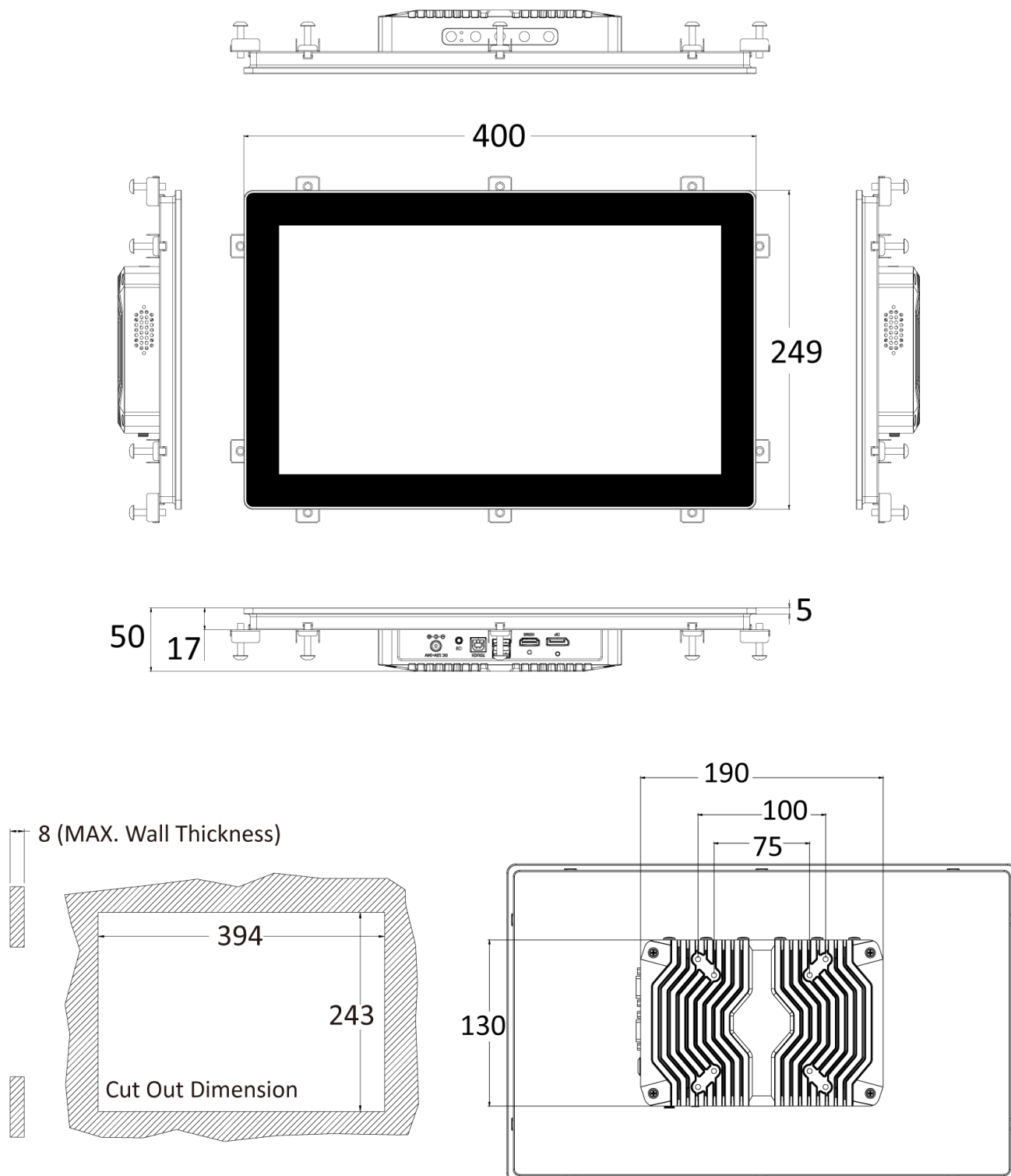
1.4.1 AIO-W210-MX

Unit: mm



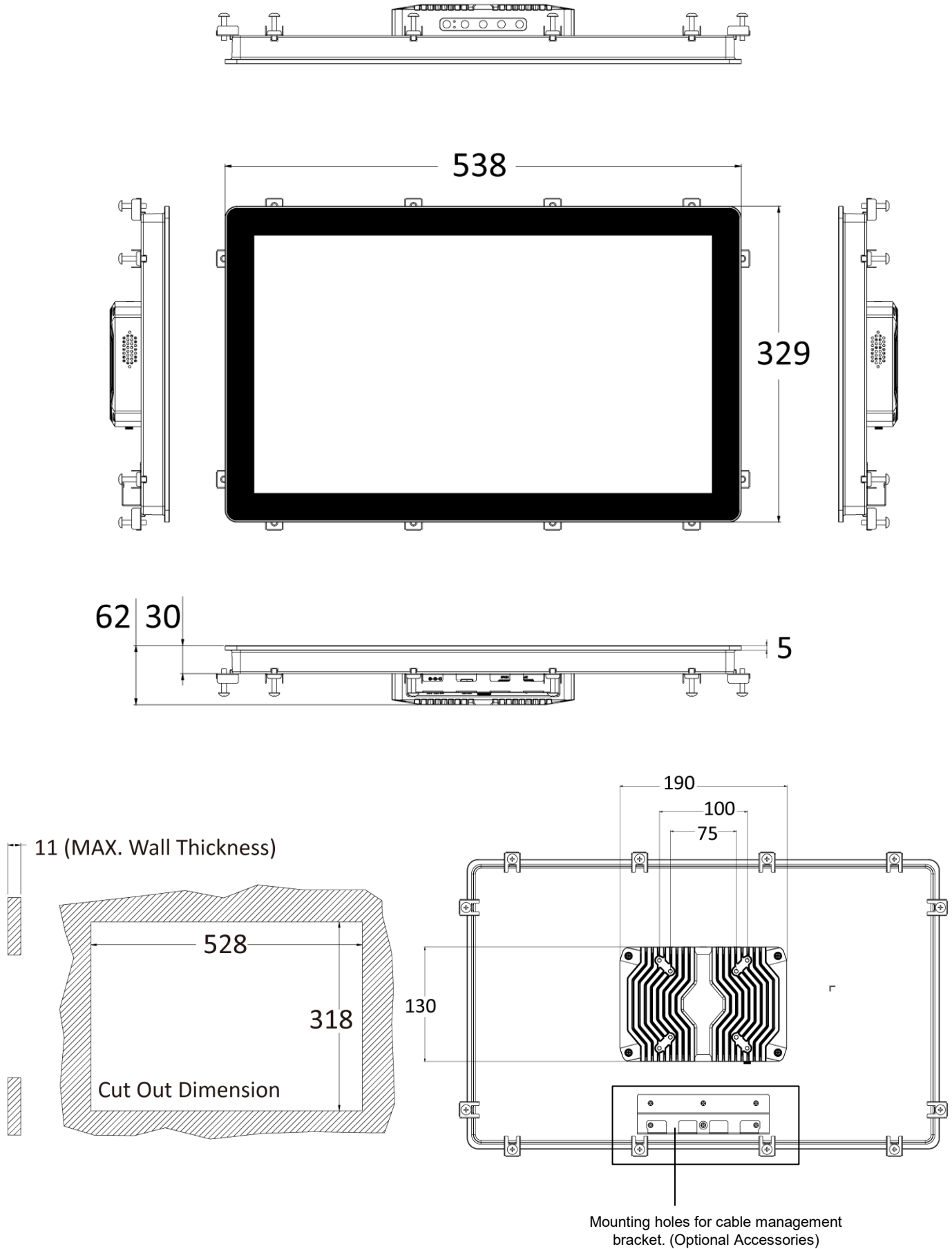
1.4.2 AIO-W215-MX

Unit: mm



1.4.3 AIO-W221-MX

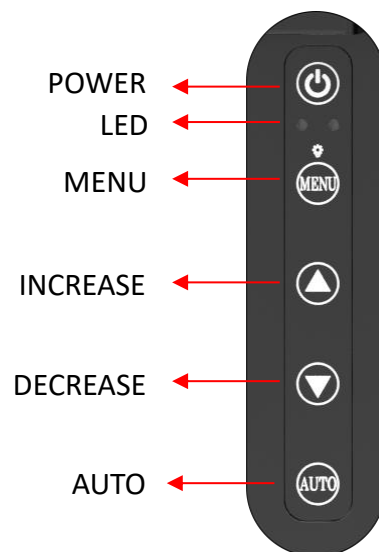
Unit: mm



Chapter 2

Panel Controls

2.1 Users Controls



3.1.1  Power Button
Turns the monitor on or off.

3.1.2  LED
1. Blue indicates power on.
2. Yellow indicates HDD access status.

3.1.3 MENU / Enter Button
Press to view the OSD menu. Press it again to enter a selection in the OSD menu.

3.1.4  Increase Button
1. Activates the Volume control menu, and increases volume (with audio option).
2. Scrolls the OSD menu upward.
3. Increases the value of a selected function.

3.1.5  Decrease Button
1. Activates the Volume control menu, and decreases volume (with audio option).
2. Scrolls the OSD menu downward.
3. Decreases the value of a selected function.

3.1.6 AUTO / Exit Button
1. When the OSD menu is active, press this button to exit the OSD menu.
2. When the OSD menu is inactive, press this button for two seconds to activate the Auto Adjustment function and the monitor will automatically optimize the display position, focus, and clock of your display.

Chapter 3

System Setup

Set torque force to 3.5 kgf-cm to execute all the screwing and unscrewing.

3.1 Cable Management Bracket Installation (21.5" only)



WARNING

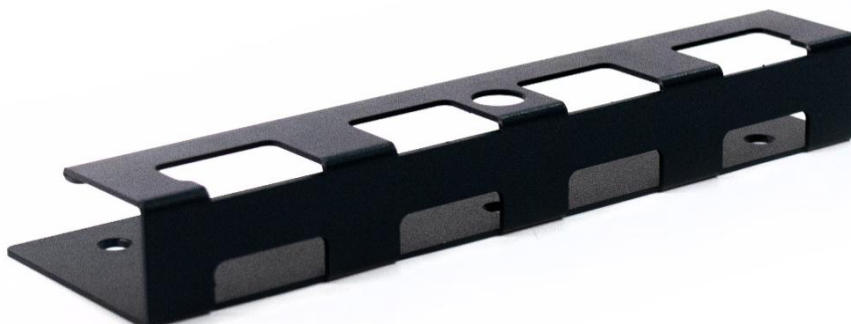
In order to prevent electric shock or system damage, before removing the chassis cover, must turn off power and disconnect the unit from power source.

1. Use 3x screws to mount the cable management bracket below the system's I/O ports

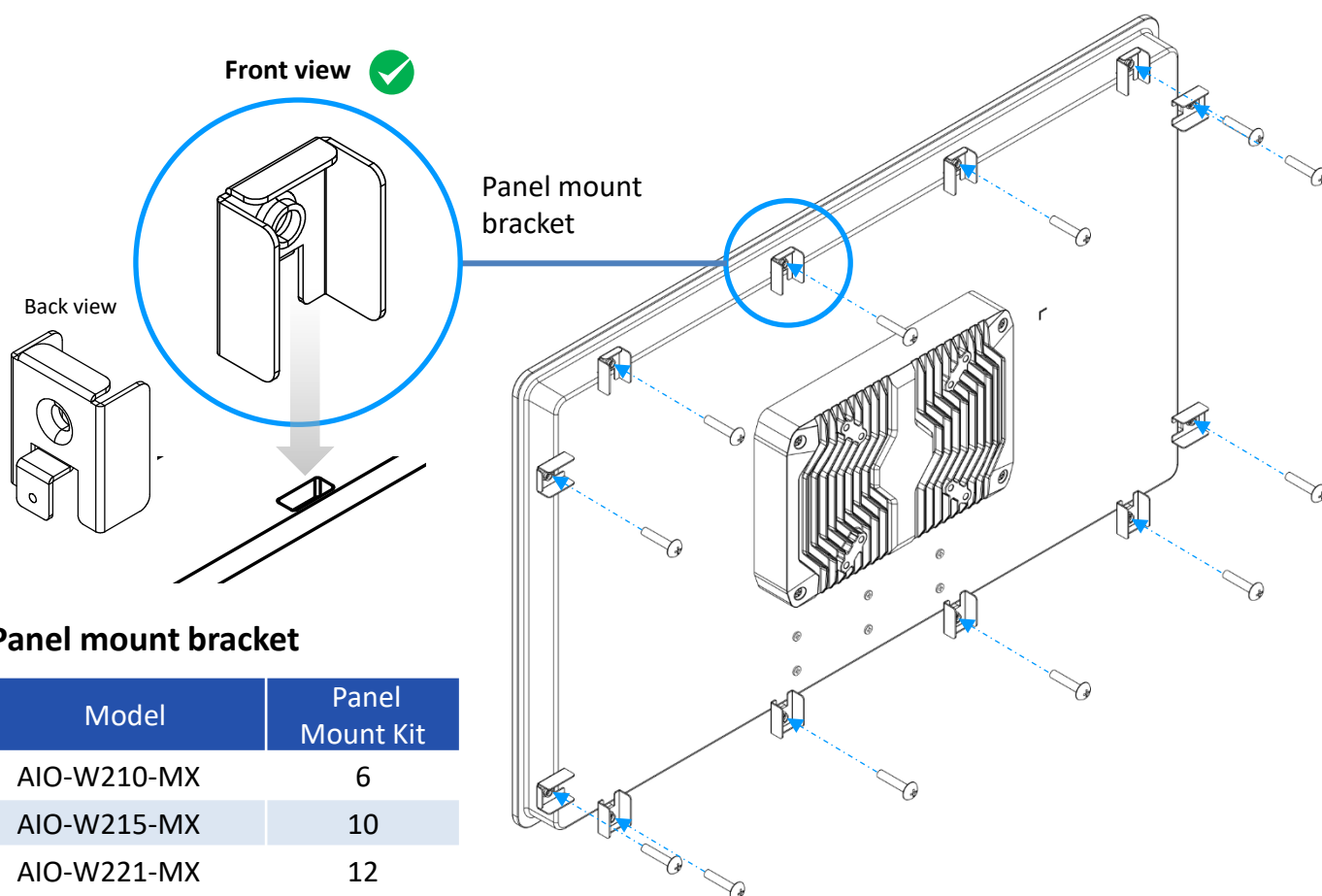


*The bracket provides additional layer to organize and securely locks all cables connected to the AIO.

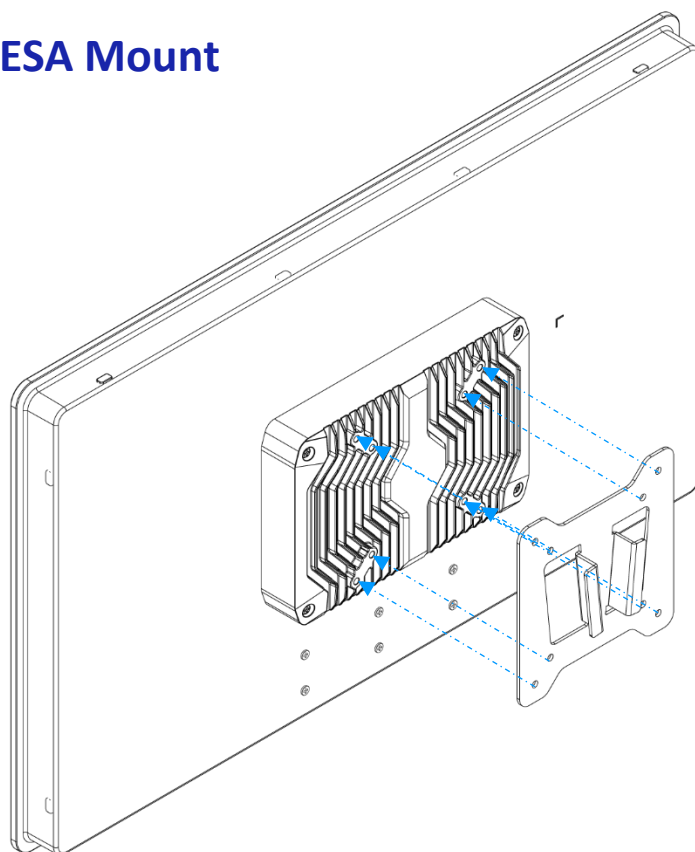
**You can use zipties or other similar alternatives to securely lock the cables in place



Panel Mount

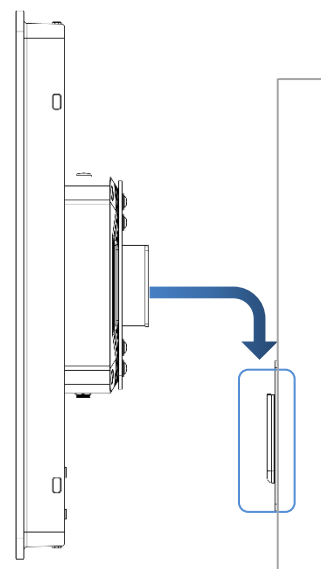


VESA Mount



VESA mount bracket
(75mm x 75mm/100mm x 100mm)

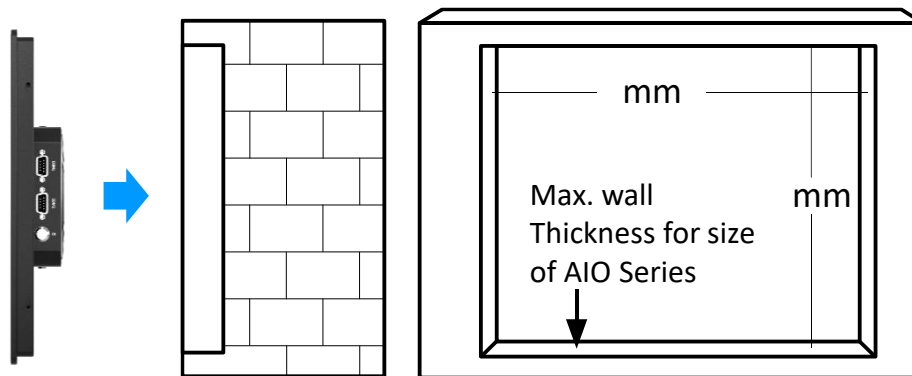
M4X6L x8 pcs



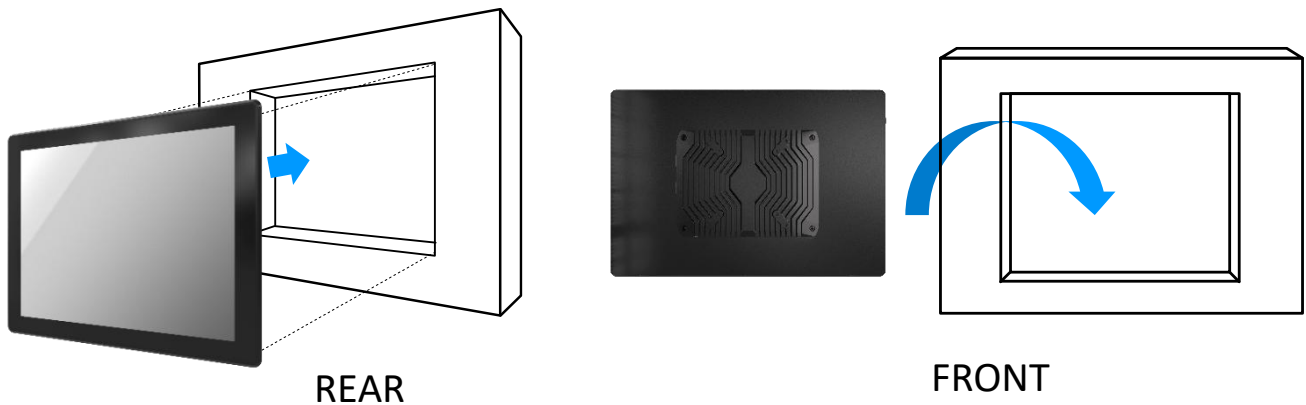
Mounting Guide

Flush Mount / Panel Mount:

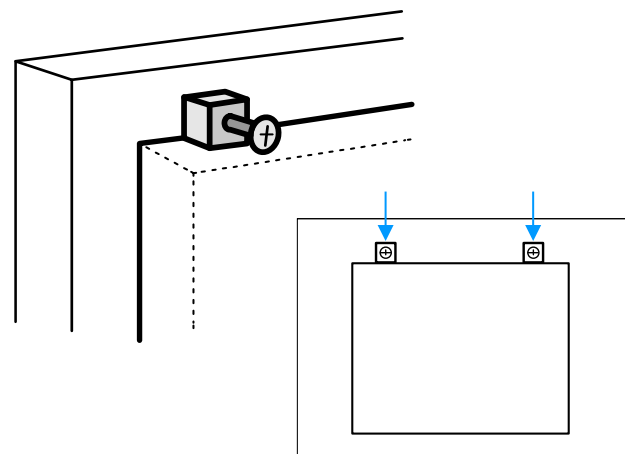
- Cut hole in the wall w/ dimensions according to the screen size you have purchased. Please refer to the next page for the list of cutout dimensions and max wall depths



- From the FRONT of the wall, place the AIO Panel PC with its rear (display screen forward) into the measured cutout hole.



- Install the mounting clips around the AIO and screw them in to secure against the wall. If the wall's thickness is greater than maximum wall thickness allowed, the clips will not fit. Please refer to the next page for the list of max wall depths



AIO Series

Model	Wall Cut-Out (W x H) Unit: mm	Max Wall Thickness (mm)
AIO-W210-MX	249 x 163	7
AIO-W215-MX	394 x 243	8
AIO-W221-MX	528 x 318	11

