

# MultiSync ME Series Large Format Installation Guide

[Ver.1.0]

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**Product Description:**

Type: LCD Display  
 Resolution: 3840 x 2160  
 Aspect Ratio: 16:9  
 EMI: Class B

	<b>Dimensions (without stand)</b>	<b>Weight (without stand)</b>	<b>Power Consumption (Typical) (Max Brightness) (Absolute Max*)</b>	<b>BTU's (Typical) (Max Brightness) (Absolute Max*)</b>
<b>ME431</b>	38.3 x 22.1 x 2.5 in. 973.0 x 561.2 x 62.6mm	13.9kg / 30.6lbs.	80W 95W 175W	272.99 BTU/hr 324.18 BTU/hr 597.17 BTU/hr
<b>ME501</b>	44.4 x 25.6 x 2.5 in. 1128.4 x 649.0 x 62.6mm	17.3kg / 38.1lbs.	85W 100W 210W	290.06 BTU/hr 341.24 BTU/hr 716.61 BTU/hr
<b>ME551</b>	48.9 x 28.1 x 2.5 in. 1241.8 x 712.6 x 62.6mm	19.8kg / 43.7lbs.	120W 155W 265W	409.49 BTU/hr 528.92 BTU/hr 904.29 BTU/hr
<b>ME651</b>	57.6 x 33.0 x 2.7 in. 1462.3 x 837.3 x 68.1mm	29.4kg / 64.8lbs.	165W 215W 320W	563.05 BTU/hr 733.67 BTU/hr 1091.97 BTU/hr

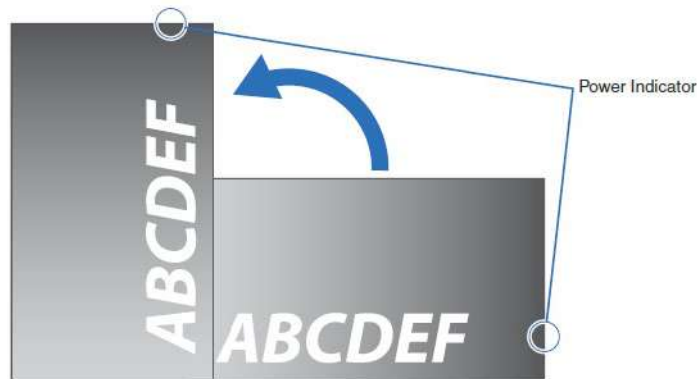
\*Absolute Max refers to when the display is at full brightness with all slots active and volume at 100.

**NOTES:**

- This document is intended to be used as a reference guide to supply useful information for a design or installation. It is not intended to be a step-by step procedure for installation.
- Any ceilings or walls must be strong enough to support the monitor and the installation must be in accordance with any local building codes. All mounts should make secure contact to wood studs.
- Distances are in inches, for millimeters multiply by 25.4. Distances may vary ±5%.

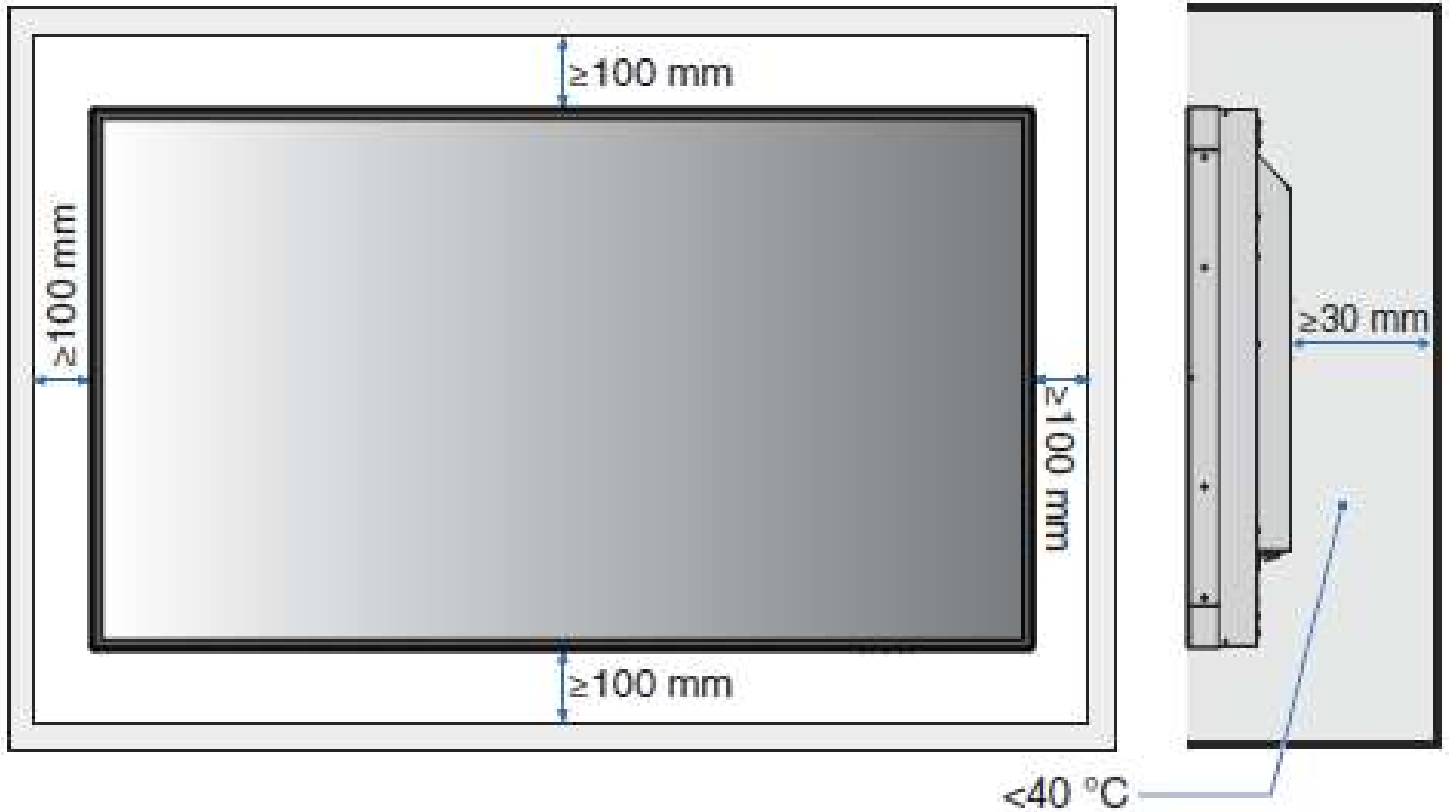
### Rotation:

- If display is to be used in portrait orientation, rotation needs to be **counterclockwise**.



### Ventilation Recommendations:

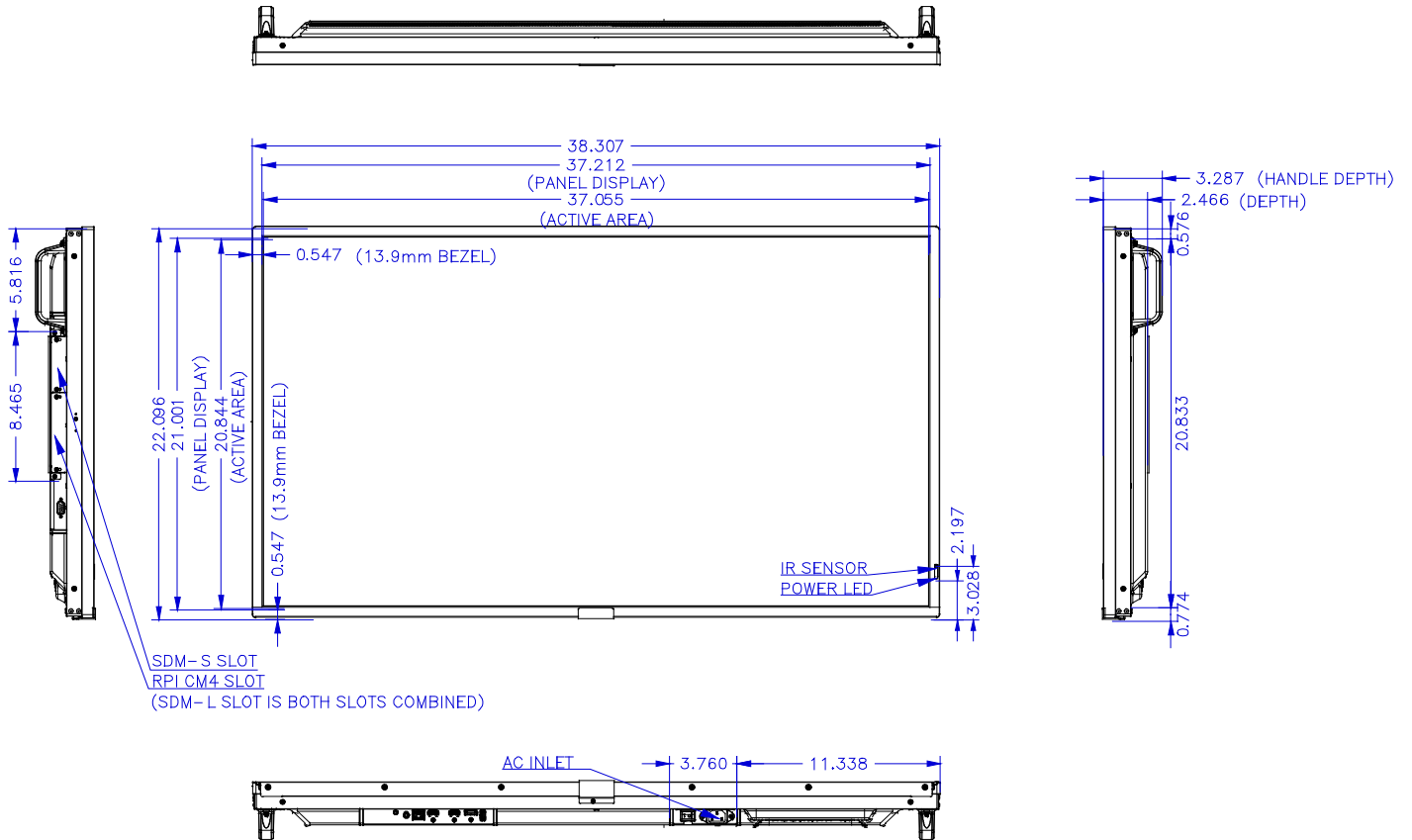
Dimensions below are minimum recommended for proper ventilation.



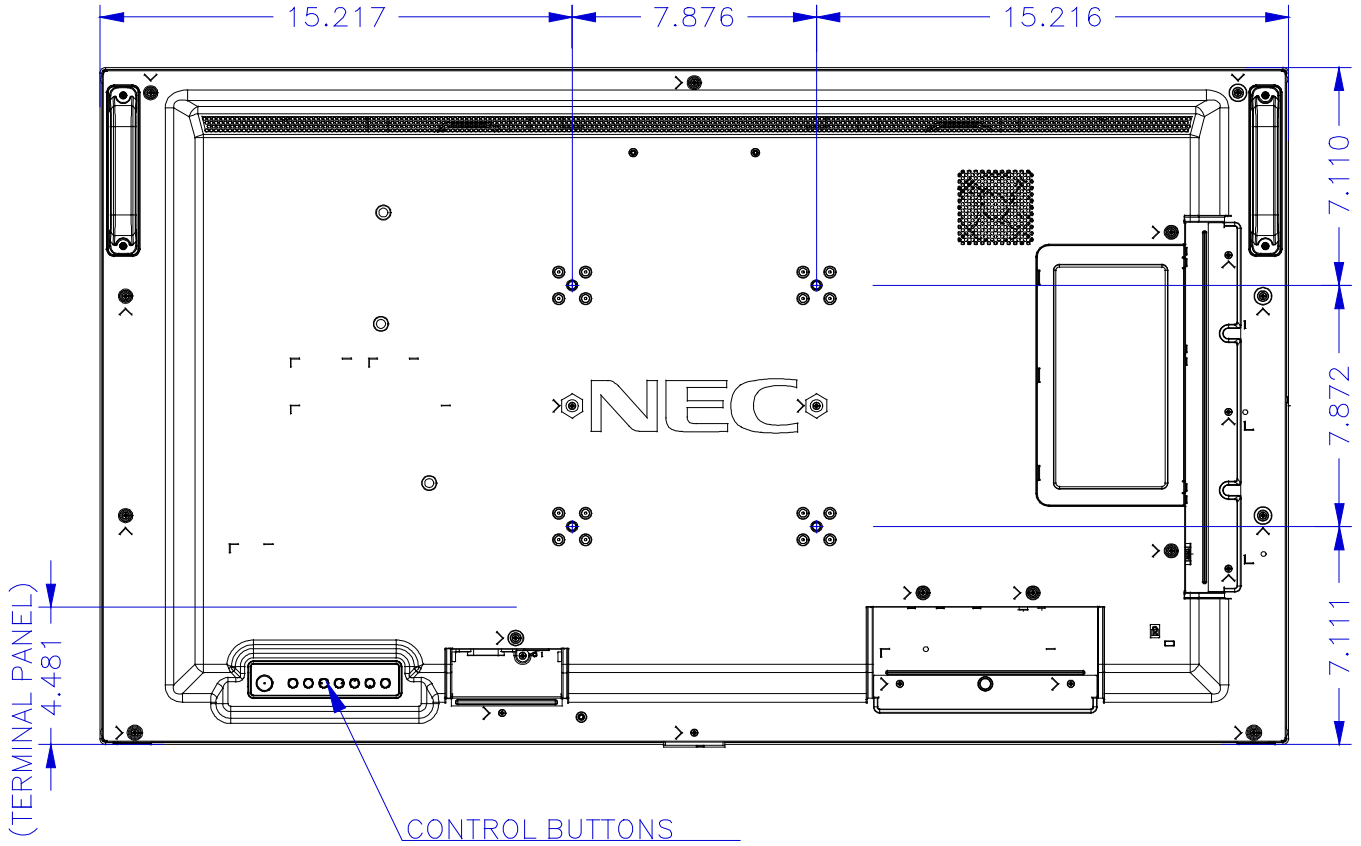
### NOTE:

- The above are recommendations in order to keep your display as cool as possible. If the distances are less than the 100mm, extra ventilation may be necessary. The ventilation space should not be covered or closed off at the front of the opening. If for some reason the opening needs to be covered, other means of ventilation will need to be incorporated into the design. Contact NEC for design review and recommendations.

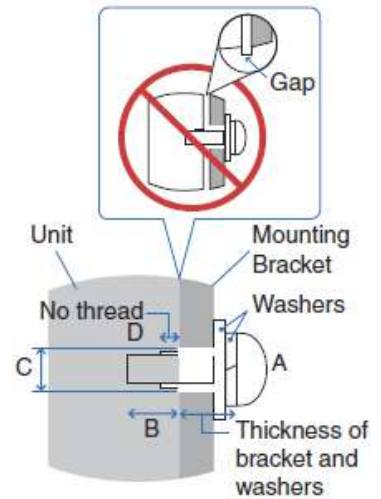
## Display Dimensions – ME431:



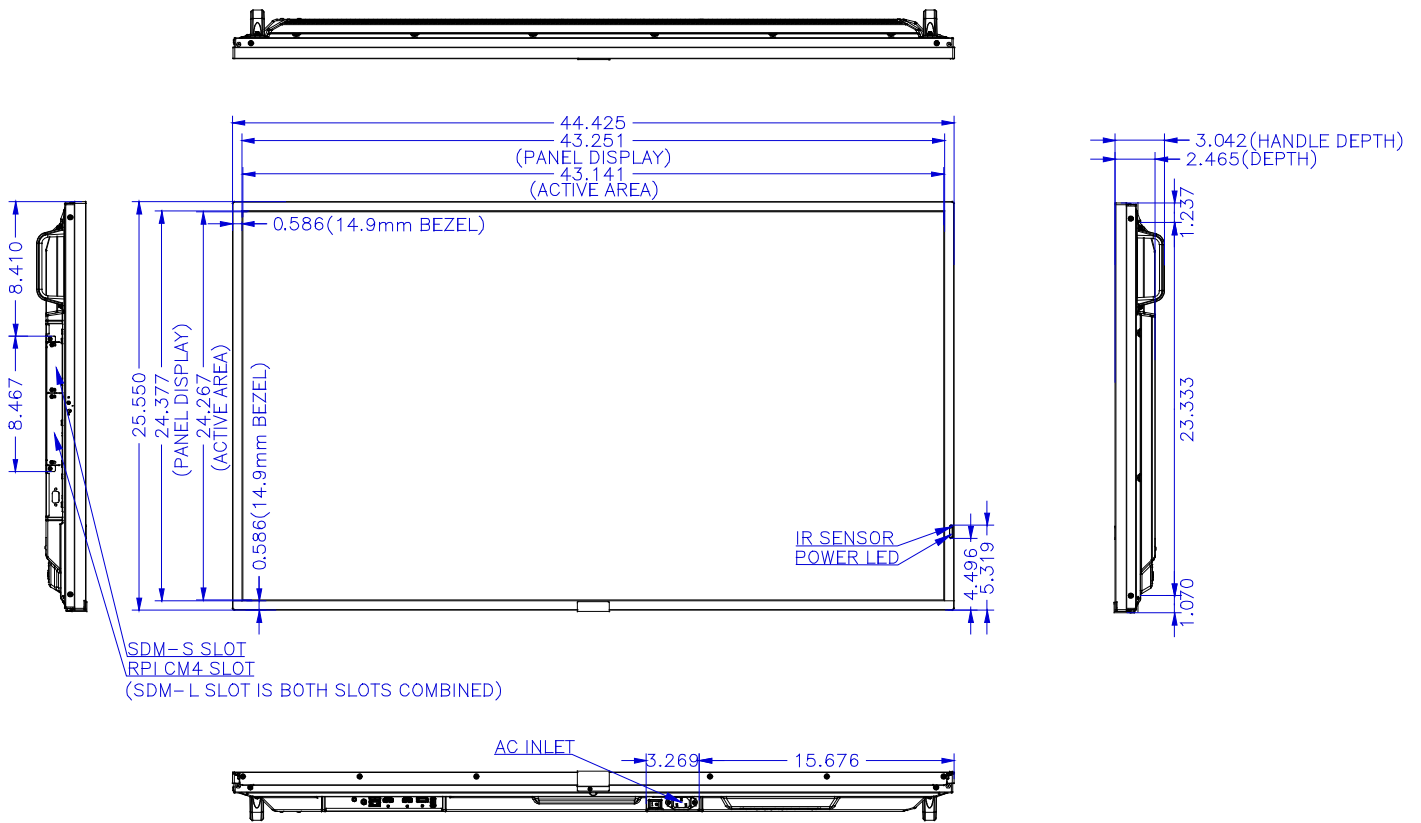
Display Dimensions – ME431 cont'd:



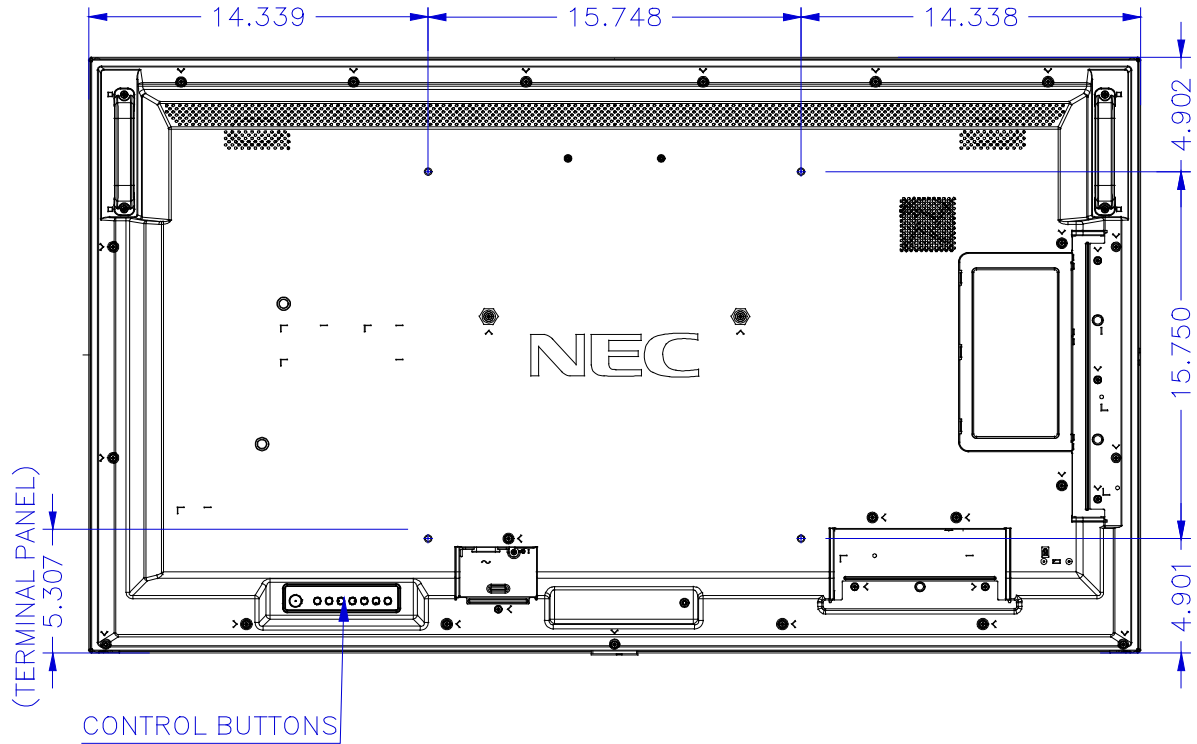
NEC strongly recommends using size M6 screws (10-12mm + the thickness of the bracket and washers in length).



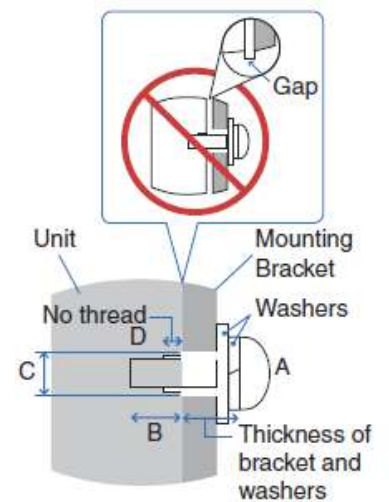
## Display Dimensions – ME501:



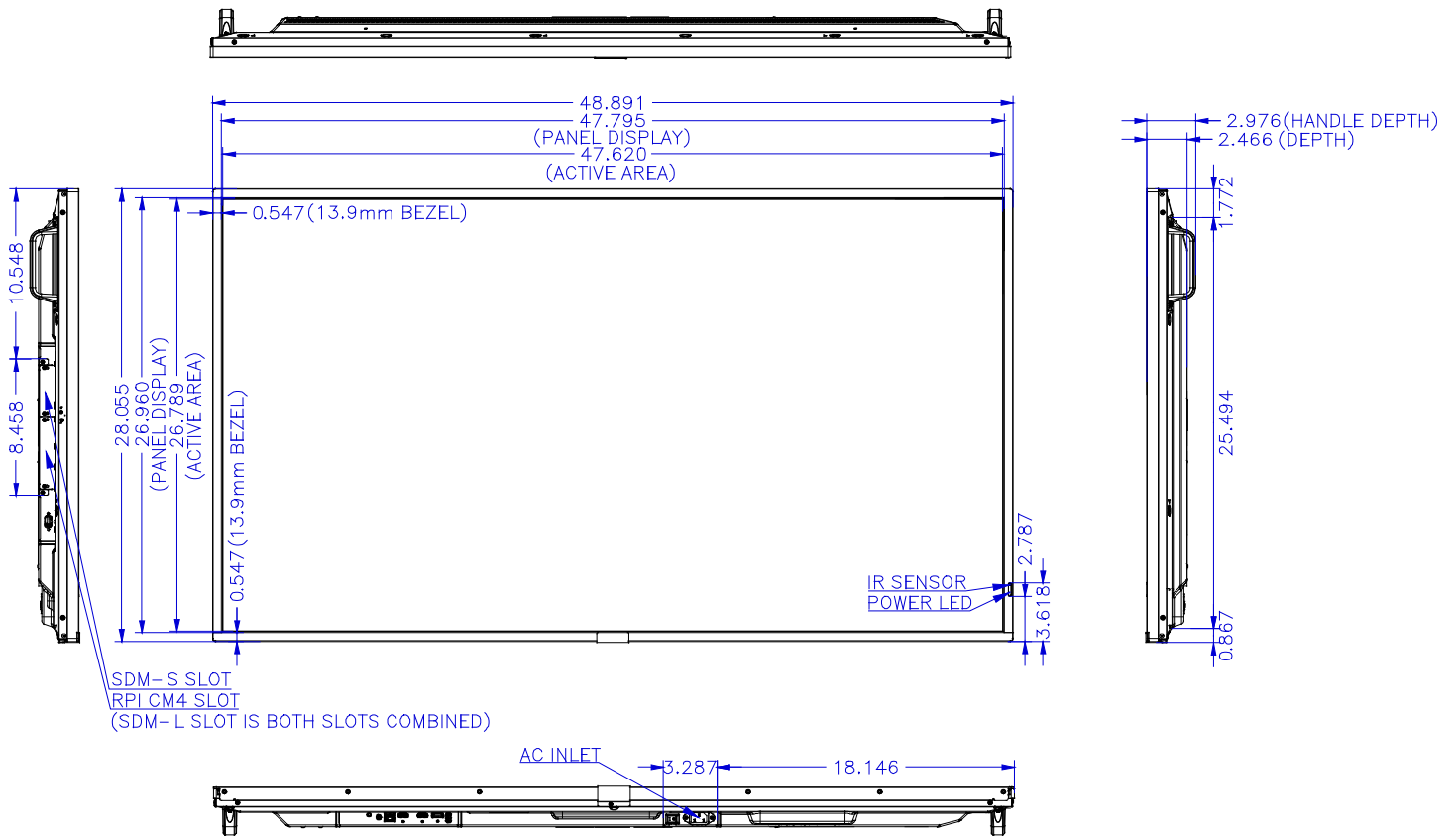
Display Dimensions – ME501 cont'd:



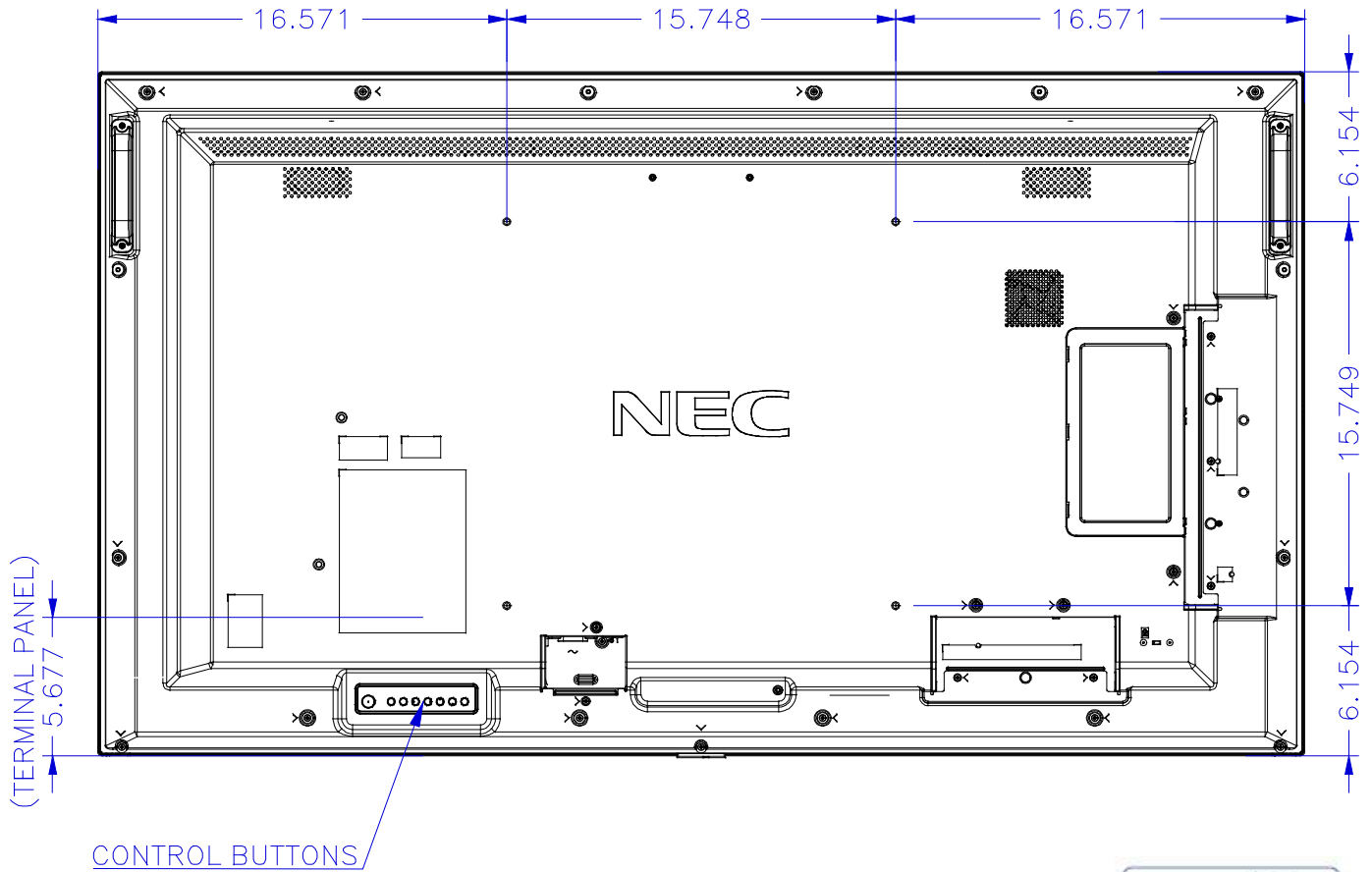
NEC strongly recommends using size M6 screws (10-12mm + the thickness of the bracket and washers in length).



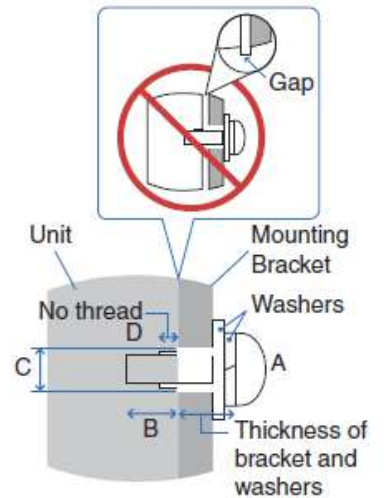
## Display Dimensions – ME551:



Display Dimensions – ME551 cont'd:

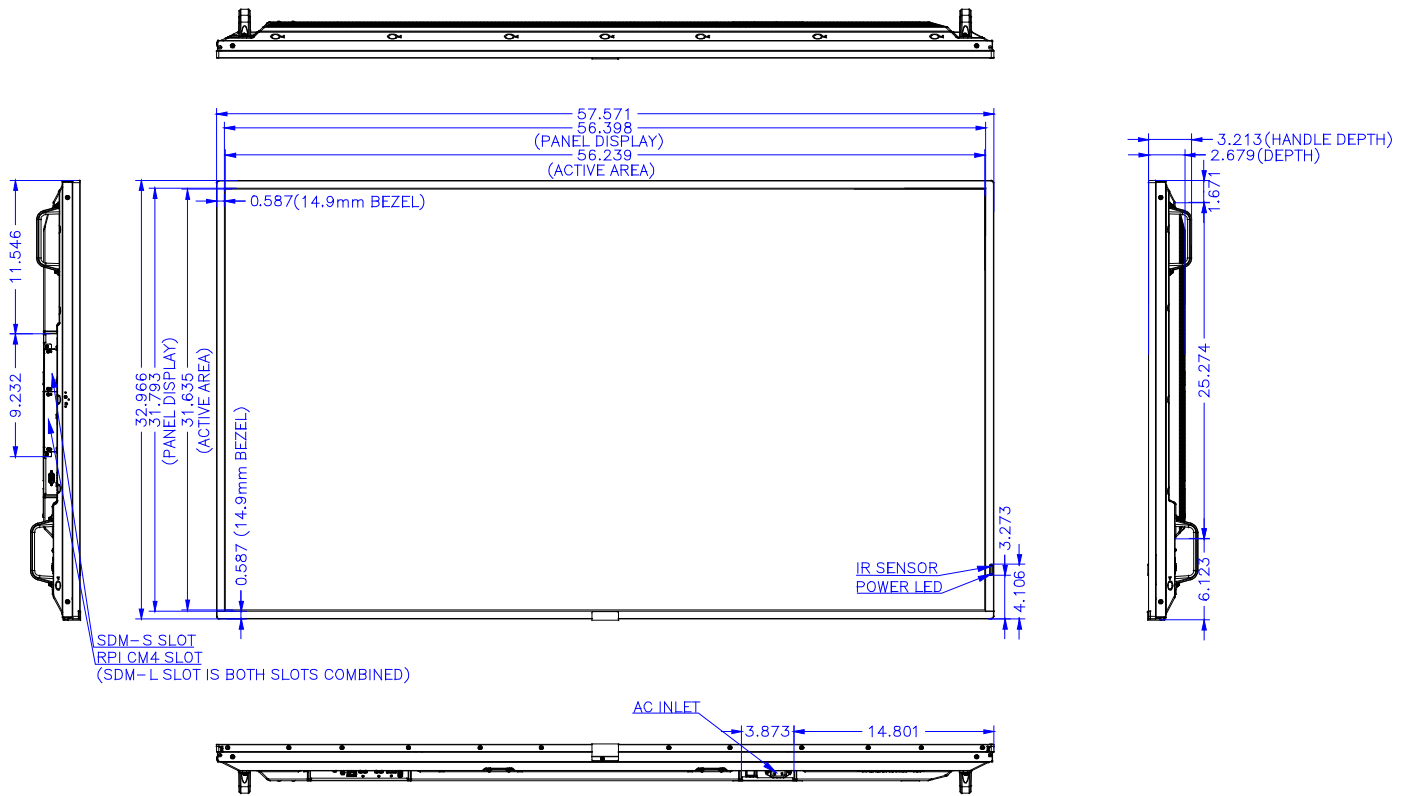


NEC strongly recommends using size M6 screws (10-12mm + the thickness of the bracket and washers in length).

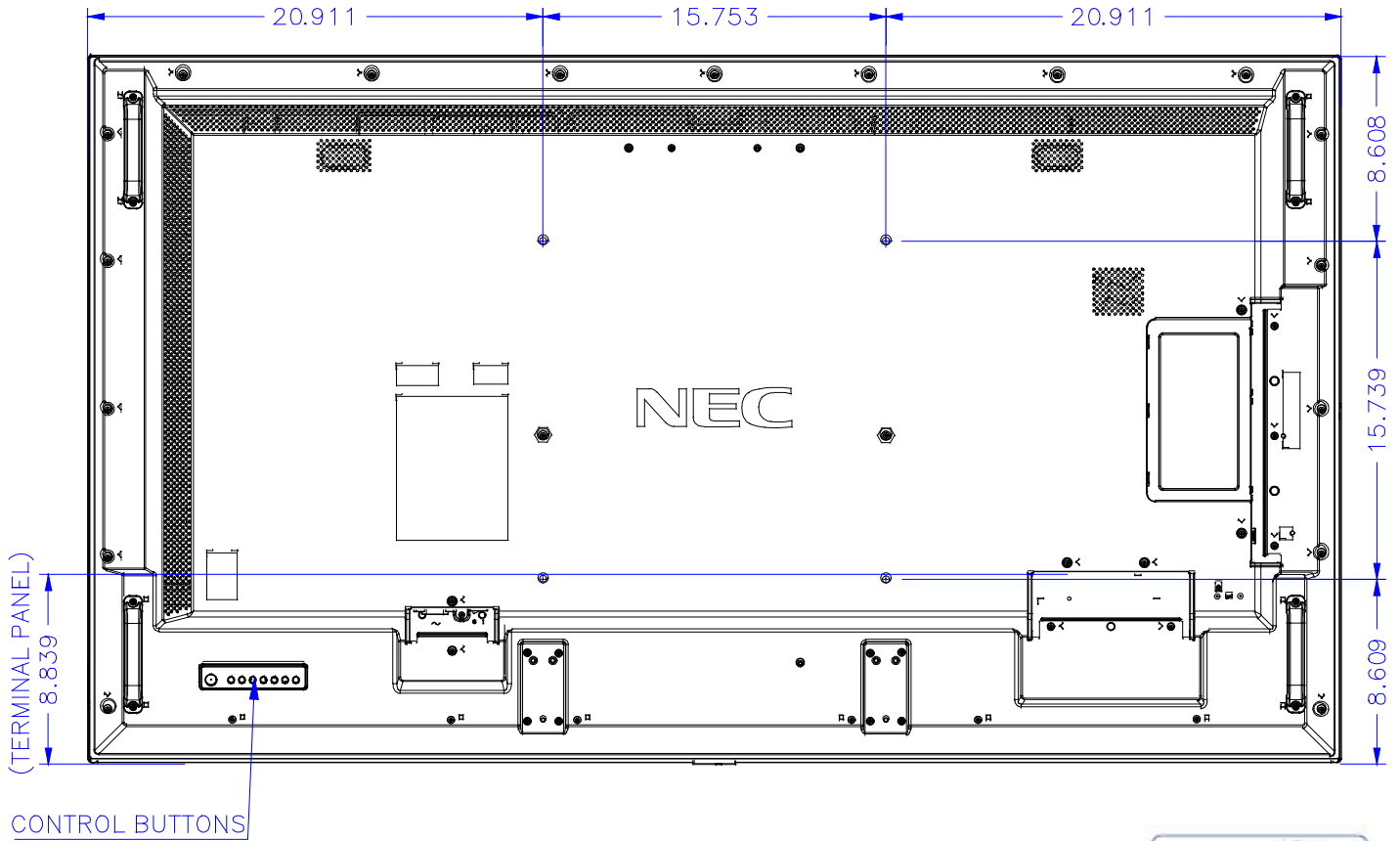




## Display Dimensions – ME651:



Display Dimensions – ME651 cont'd:



NEC strongly recommends using size M8 screws (16-18mm + the thickness of the bracket and washers in length).

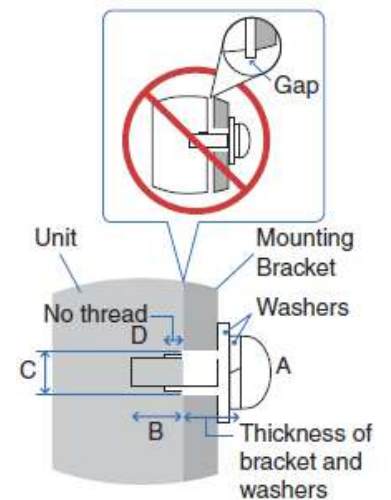
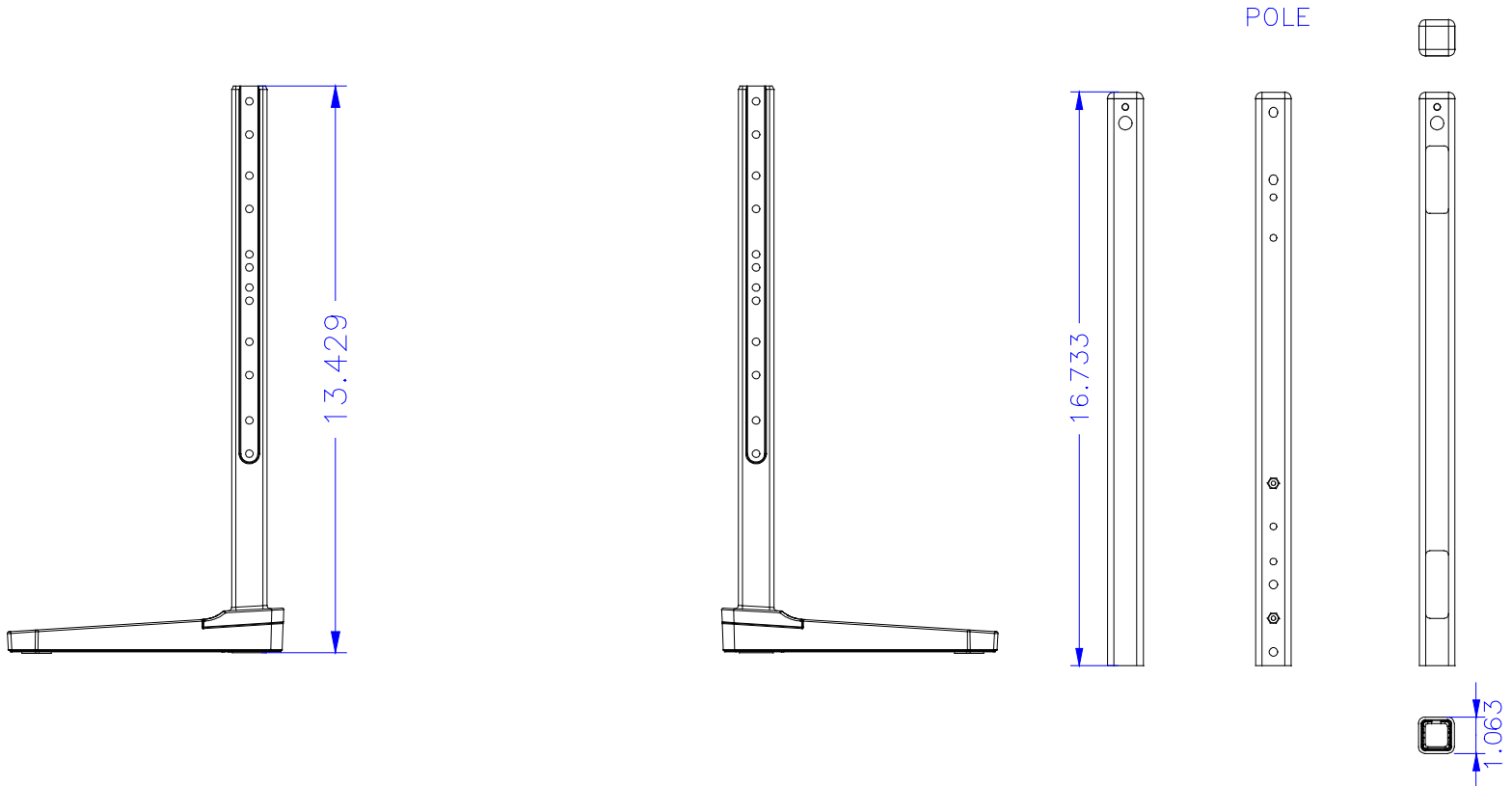
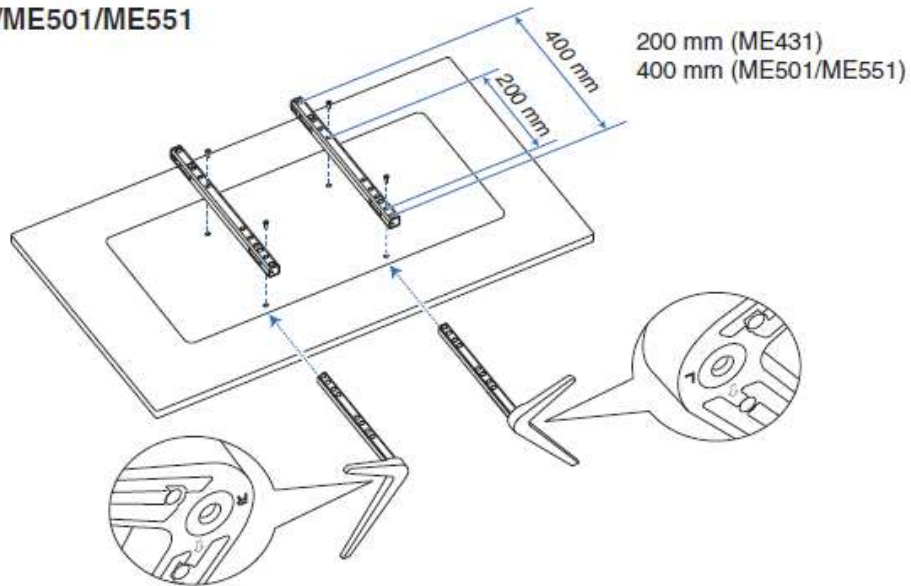


Table Top Stand Dimensions (ST-401 pictured below):



ME431/ME501/ME551



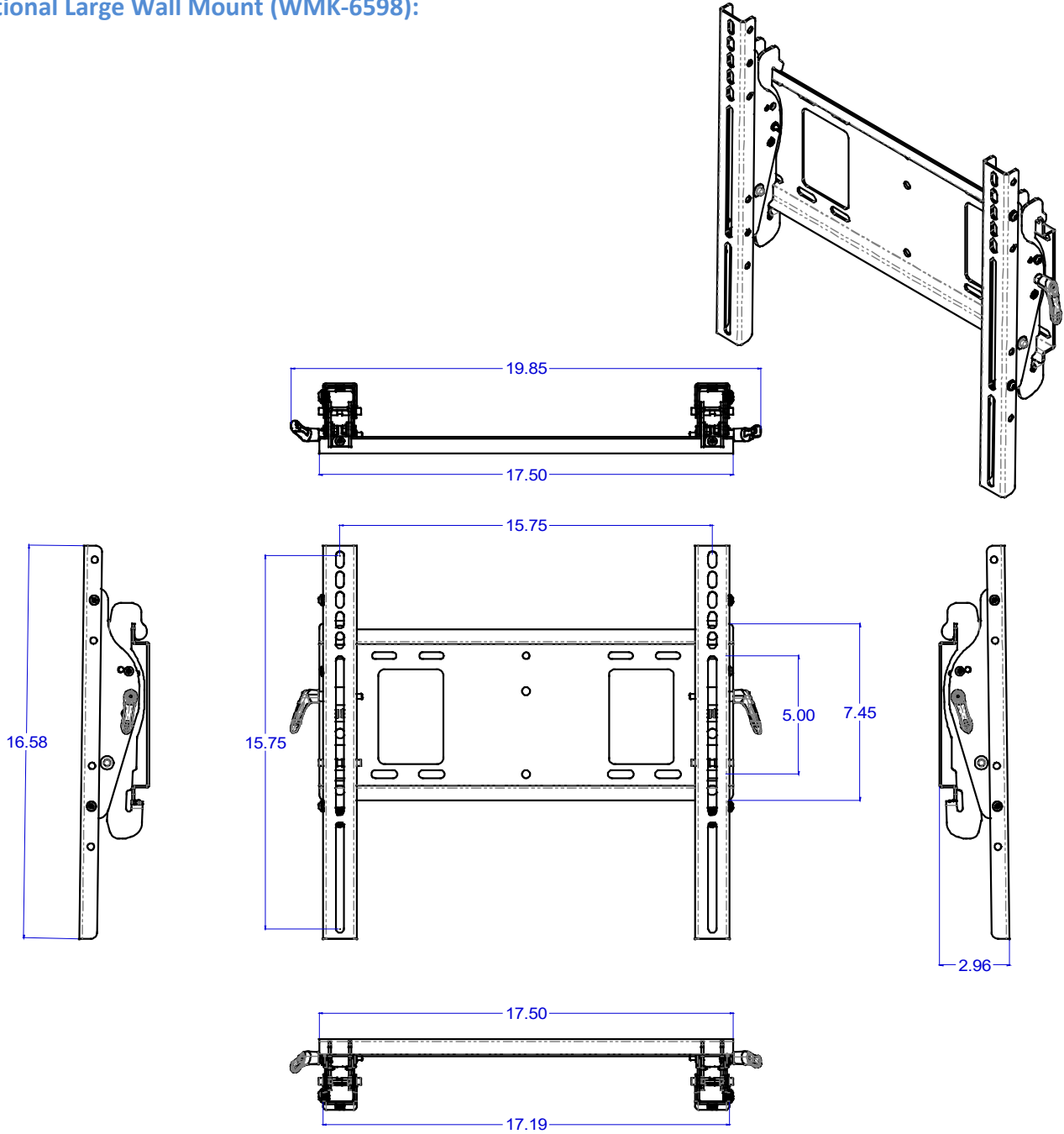
**Note:**

**ST-43M** is compatible with the ME431, ME501 and ME551 and has the same design as the ST-401 but has additional holes to account for the 200mm x 200mm VESA hole pattern of the ME431

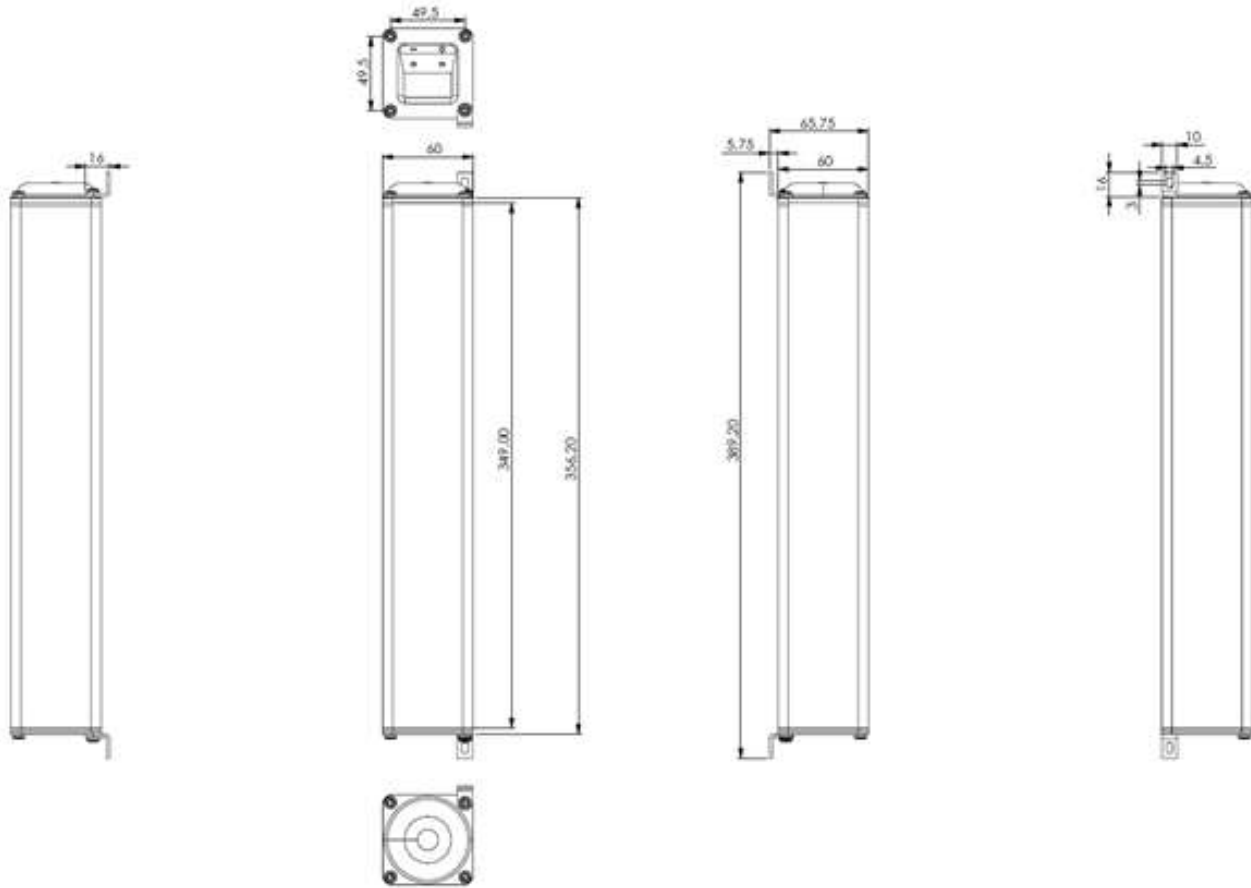
**ST-401** is compatible with the ME501 and ME551

**ST-65M** is compatible with the ME651

## Optional Large Wall Mount (WMK-6598):

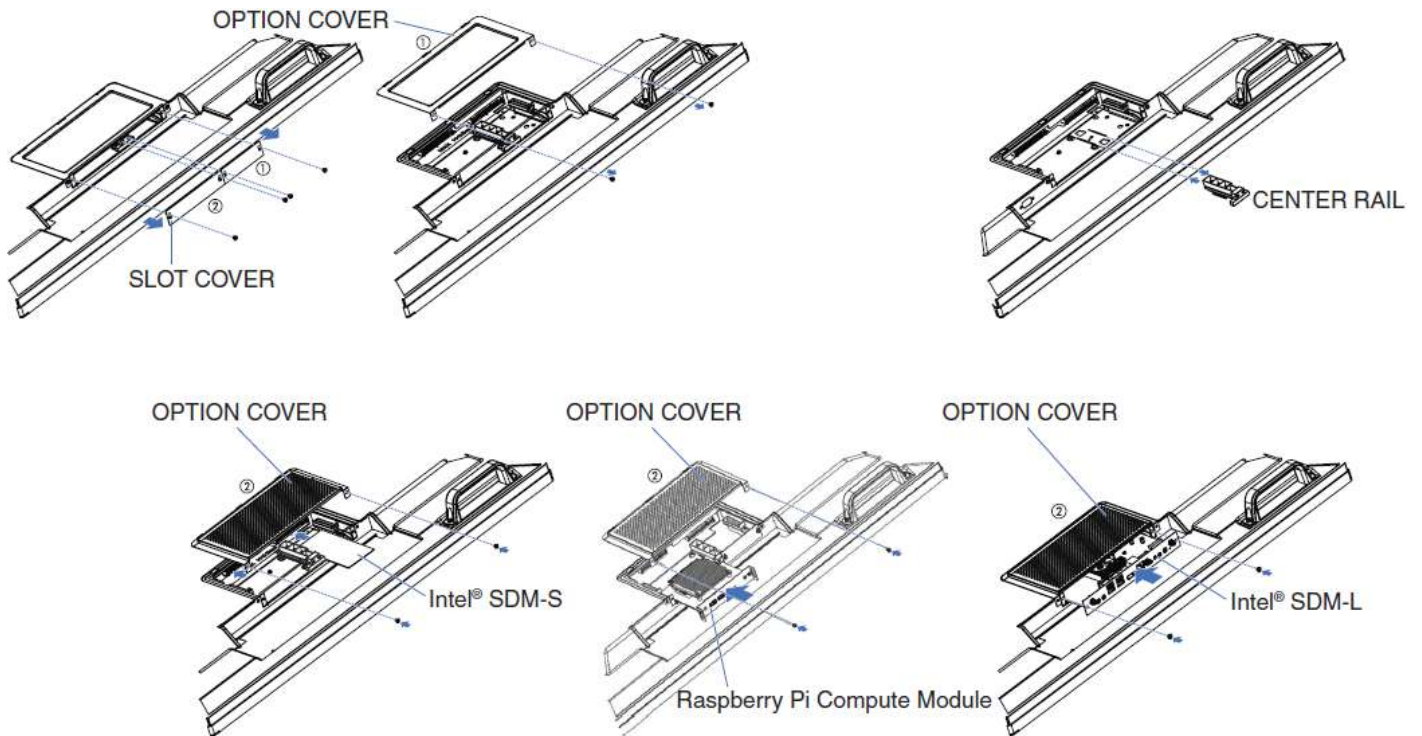


## Optional Speaker Dimensions (SP-RM3a):



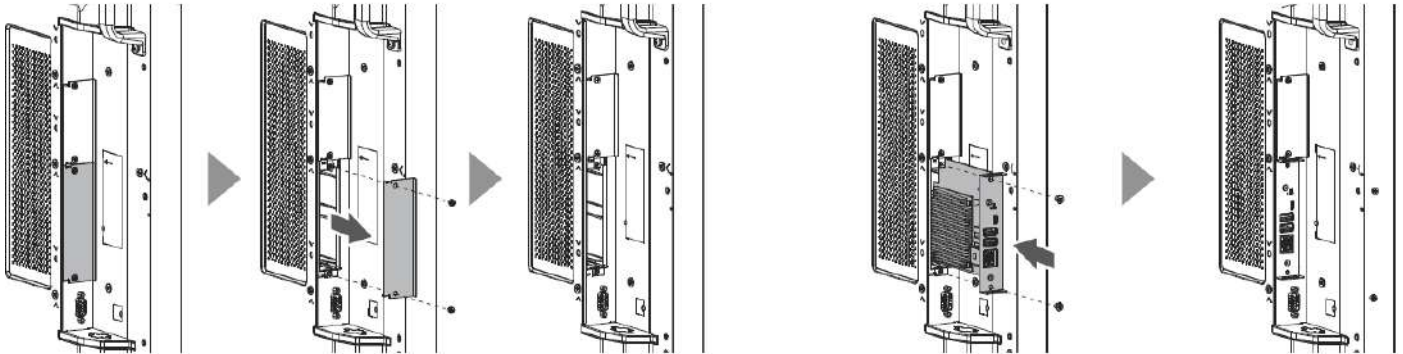
## Intel® Smart Display Module Integration:

1. Place the monitor face down on a flat even surface that is larger than the monitor screen. Use a sturdy table that can easily support the weight of the monitor. To avoid scratching the LCD panel, always place a soft cloth, such as a blanket that is larger than the monitor's screen area, on the table before laying the monitor face down. Make sure there is nothing on the table that can damage the monitor.
2. Remove the SLOT COVER and the OPTION COVER. Note when using Intel® SDM-L type option board, slide the CENTER RAIL to the right and remove. Reverse the process to re-attach
3. Gently push in SDM-S or SDM-L module
4. Attach included Option Cover after installation of SDM device



### Compute Module Integration:

- Please see separate DS1-IF20CE installation guide for full integration. Image below may not represent actual back of unit but the concept is the same.
- Removing the OPTION COVER is necessary for installation



Final installed DS-IF20CE with RPI CM4 below



**Input Panel:  
Bottom**



**Side (Rotated)**





## ASCII Common Commands:

- This monitor supports common ASCII control commands with many other NEC projectors. For more information on this, please see our website.

### Parameter

#### Input command

Input signal name	Response	Parameter
DisplayPort1	DisplayPort1	DisplayPort1 or DisplayPort
DisplayPort2	DisplayPort2	DisplayPort2
HDMI1	hdmi1	hdmi1 or hdmi
HDMI2	hdmi2	hdmi2
HDMI3	hdmi3	hdmi3
MP	mp	mp
OPTION	option	option

#### Status command

Response	Error status
error:temp	Temperature abnormal
error:fan	Cooling fan abnormal
error:light	Inverter or backlight abnormal
error:system	System error

## PD Comms Tool

- Please download PD Comms Tool and open the Communications Log by going to View → Communications Log. From here you can find any external control code necessary for your installation
- PD Comms Tool can be downloaded from here: <https://www.sharpnecdisplays.us/faqs/pdcommstool/179>

The screenshot shows the NEC PD Comms Tool interface. The 'Communications Send/Receive Log' window is open, displaying the following details:

Connecting to TCP/IP address: 192.168.0.16, Port: 7142  
**Power Control command Mode=1**  
 Header block message (Destination Address=41h (Monitor ID=1), Message Type=41h)  
 Write value 49667 (C253h) encoded as 4 bytes -> 49h 30h 30h 30h  
 Write value 214 (D67h) encoded as 2 bytes -> 49h 36h  
 Write value 1 (1001h) encoded as 4 bytes -> 30h 30h 30h 31h  
 Sent message length=12 (encoded as 30h 43h -> 16c)  
**Sent 21 bytes:**  
 01 30 41 30 41 30 43 02 43 32 30 33 44 36 30 30 30 31 03 73 00

SOH	Reserved	Destination Address	Source Address	Message Type	Message Length	STX	Data (Message payload)	ETX	Check code	Delimiter
01	30	41	30	41	20 43	02	43 32 30 33 44 36 30 30 30 30 31	03	73	00

**Received 23 bytes:**  
 01 30 30 41 42 30 45 02 30 30 43 32 30 33 44 36 30 30 30 31 03 76 00

SOH	Reserved	Destination Address	Source Address	Message Type	Message Length	STX	Data (Message payload)	ETX	Check code	Delimiter
01	30	30	41	42	30 45	02	30 30 43 32 30 33 44 36 30 30 30 31	03	76	00

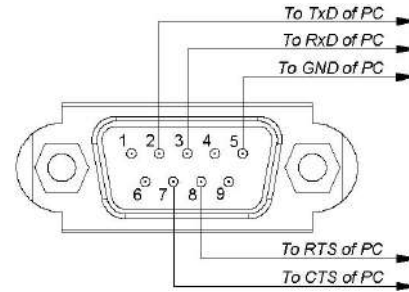
**Received (message payload only):**  
 30 30 43 32 30 33 44 36 30 30 31

Header reply message Source Address=41h (Monitor ID=1)  
 Received message length=14 (encoded as 30h 45h -> 19c)  
 Read value 0 (encoded as 2 bytes 30h 30h -> 100h)  
 Read value 49667 (encoded as 4 bytes 49h 30h 30h 30h -> C253h)  
 Read value 214 (encoded as 2 bytes 49h 36h -> D67h)  
 Read value 1 (encoded as 4 bytes 30h 30h 30h 31h -> 1001h)  
 Power Control command reply Result Code=0  
 Power Control command reply Result Power Mode=000  
 Connecting to Dummy Interface

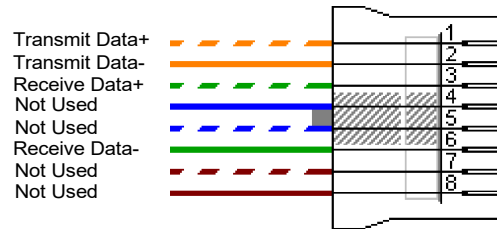
## Cable Connection

### Communication Protocol:

Interface: RS-232C  
 Communication System: Asynchronous  
 Baud Rate: 9600 bps  
 Data Length: 8 bits  
 Parity: None  
 Stop Bit: 1 bit  
 Communication Code: ASCII



Interface: Ethernet (CSMA/CD)  
 Communication System: TCP/IP (Internet Protocol Suite)  
 Communication Layer: Transport layer (TCP)  
 IP Address: 192.168.0.10 (default out of box)  
 Port Number: 7142 (Fixed)



## Browser Control:

Information and control can also be available through the HTTP browser control menu. In order to accomplish this, type: [http://<the Monitor's IP address>/pd\\_index.html](http://<the Monitor's IP address>/pd_index.html)  
 Note that the LAN Power needs to be turned on in order for the display to be controlled while the units are off. All displays are set to the IP address 192.168.0.10 out of the box unless changed through the initial setup guide. Communicating network PC needs to be on the same subnet as display that is being communicated with.



HDMI1

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- [SCHEDULE](#)
- [MULTI PICTURE CONTROL](#)
- [OSD](#)
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- [ADVANCED OPTION1](#)
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- [NETWORK](#)
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- [NAME](#)
- [NETWORK PASSWORD](#)
- [PD LIST](#)
- [MEMO](#)
- [UPDATE FIRMWARE](#)
- [PORT](#)
- [UPDATE FIRMWARE\(ALL\)](#)

HOME

Welcome to the management and configuration web interface. You can use the navigation menus on the left to access additional pages.

MONITOR INFORMATION	
MODEL NAME	
SERIAL	45500005TA

FIRMWARE VERSION	
FIRMWARE1	0.017
FIRMWARE2	0.008
FIRMWARE3	0.011
FIRMWARE4	0.002

ETHERNET	
MAC ADDRESS	58:C2:32:33:00:03
IPv4 ADDRESS	192.168.0.10
SUBNET MASK	255.255.255.0
DEFAULT GATEWAY	0.0.0.0
DNS PRIMARY	0.0.0.0
DNS SECONDARY	0.0.0.0

ID

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