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SHARP
Mxx1-2
Large
Format
Display

SHARP Mxx1-2 Large Format Display Installation Guide

Contents

SHARP

SHARP Mxx1-2 Large Format Display

Specifications

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

Product Usage Instructions

- **Rotation:**
    - If the display is to be used in portrait orientation, rotation needs to be counterclockwise.
- **Ventilation Recommendations:**
    - Dimensions below are the minimum recommended for proper ventilation. If the distances are less than 100mm, extra ventilation may be necessary. The ventilation space should not be covered or closed off at the front of the opening.
- **Installation Guidelines:**
    - NEC strongly recommends using size M6 screws (10-12mm + the thickness of the bracket and washers in length) for pages 3, 5, and 7; and size M8 screws (16-18mm + the thickness of the bracket and washers in length) for page 9.
- **Optional Table Top Stand:**
    - To install or remove the optional tabletop stand for ME431, M501, and M551 models, use ST-401 or ST-43M. For ME651, use ST-65M. Only use the screws included with the optional stand. The ST-65M will

need included stand holders to be attached as well.

FAQs

- **Q: What should I do if my display is not rotating properly?**
  - **A:** Make sure the rotation is counterclockwise for portrait orientation. If issues persist, contact customer support for further assistance.
- **Q: Can I use different screws for installation?**
  - **A:** It is strongly recommended to use the specified size M6 or M8 screws as per the guidelines provided to ensure proper installation and support for the display.

Product Description

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

|	Dimensions (without stand)	Weight (without stand)	VESA Pattern	Power Consumption (Typical) (Max Brightness) (Absolute Max*)	BTU's (Typical) (Max Brightness) Absolute Max*)
M431-2	973.0 x 561.2 x 62.6mm 38.31 x 22.09 x 2.46in.	30.6 lbs. / 13.9kg	200 x 200mm (M6 x 4-hole)	80W 95W 175W	272.8 BTU/hr 323.95 BTU/hr 596.75 BTU/hr
M501-2	1128.4 x 649.0 x 62.6mm 44.43 x 25.55 x 2.46in.	38.1 lbs. / 17.3kg	400 x 400mm (M6 x 4-hole)	85W 100W 210W	289.85 BTU/hr 341 BTU/hr 716.1 BTU/hr
M551-2	1241.8 x 712.6 x 62.6mm 48.89 x 28.06 x 2.46in.	43.7 lbs. / 19.8kg	400 x 400 (M6 x 4-hole)	120W 155W 265W	409.2 BTU/jr 528.55 BTU/hr 903.65 BTU/hr
M651-2	1462.3 x 837.3 x 817mm 57.57 x 32.96 x 2.68in.	64.8 lbs. / 29.4kg	400 x 400 (M8 x 4-hole)	165W 215W 320W	562.65 BTU/hr 733.15 BTU/hr 1091.2 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 follow any local building codes. All mounts should make secure contact with wood studs.
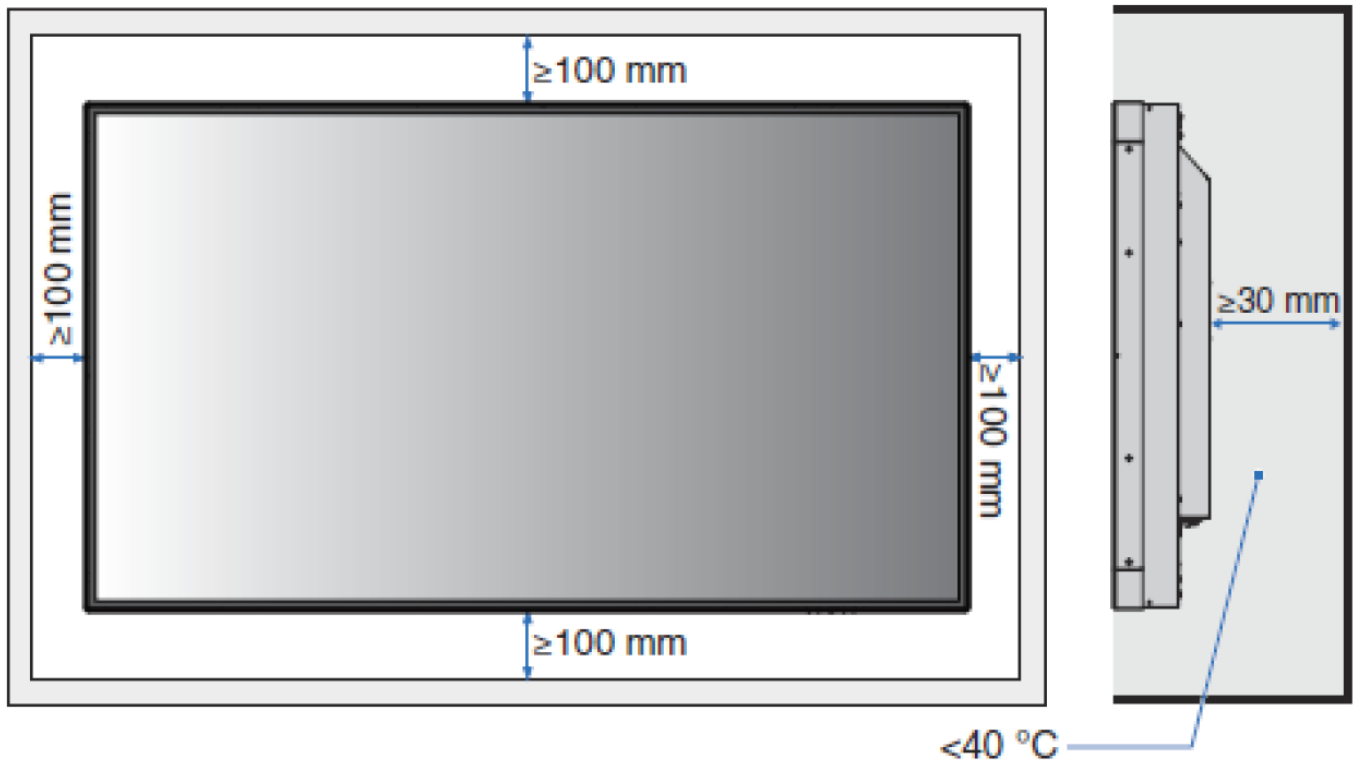- Distances are in inches, for millimeters multiplied by 25.4. Distances may vary ±5%.

Rotation:

- If the display is to be used in portrait orientation, rotation needs to be counterclockwise.
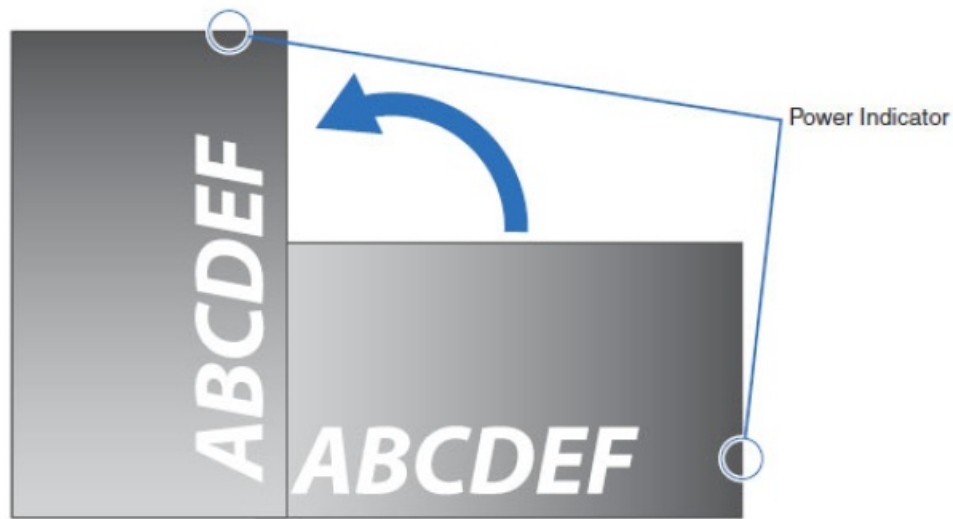
Ventilation Recommendations:

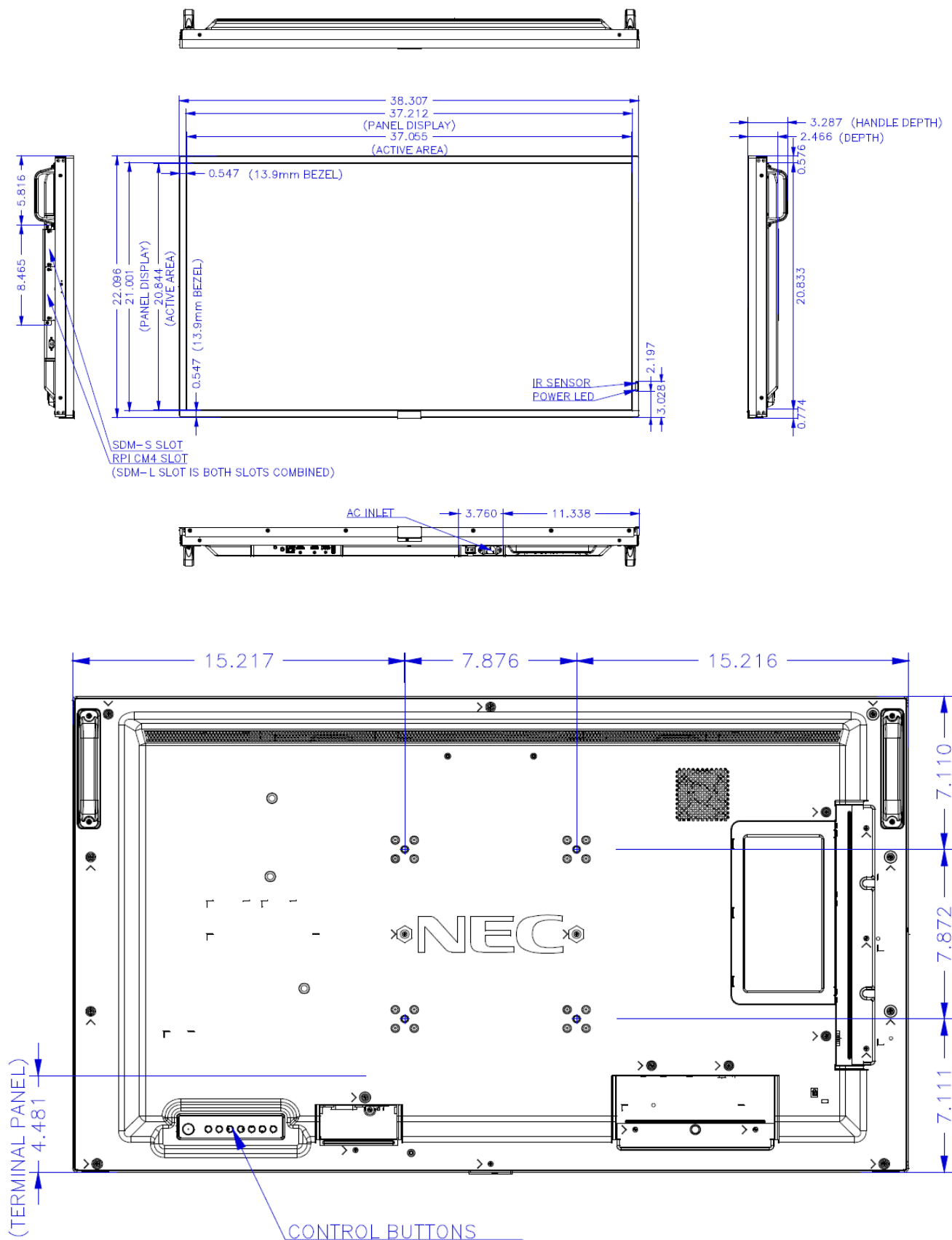Dimensions below are the minimum recommended for proper ventilation.
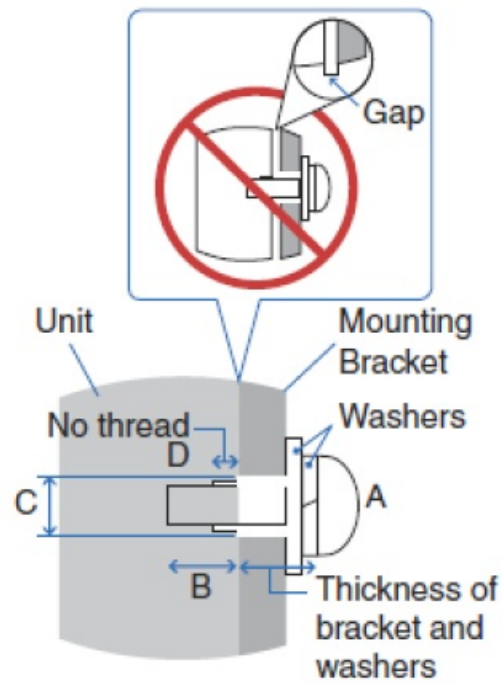

NOTE:

- The above are recommendations to keep your display as cool as possible. If the distances are less than 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.
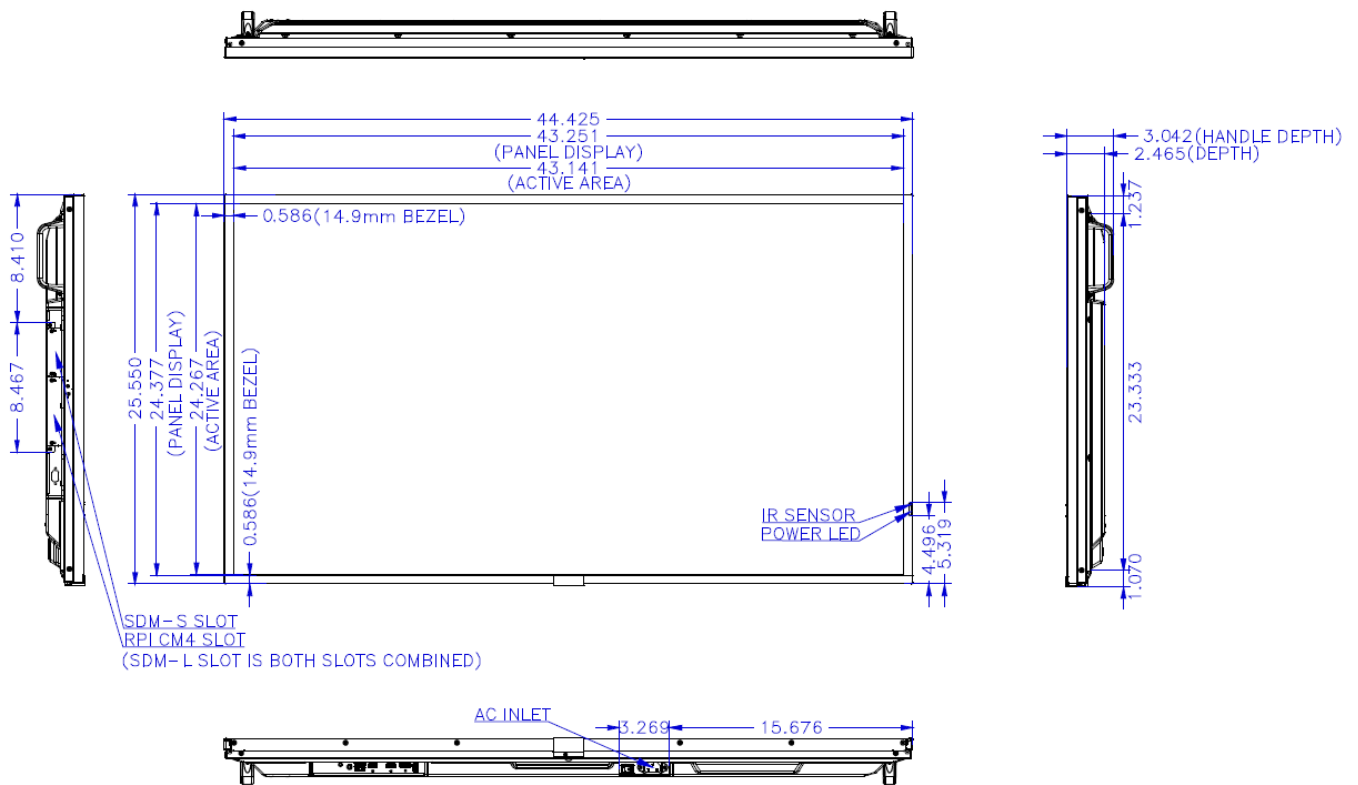
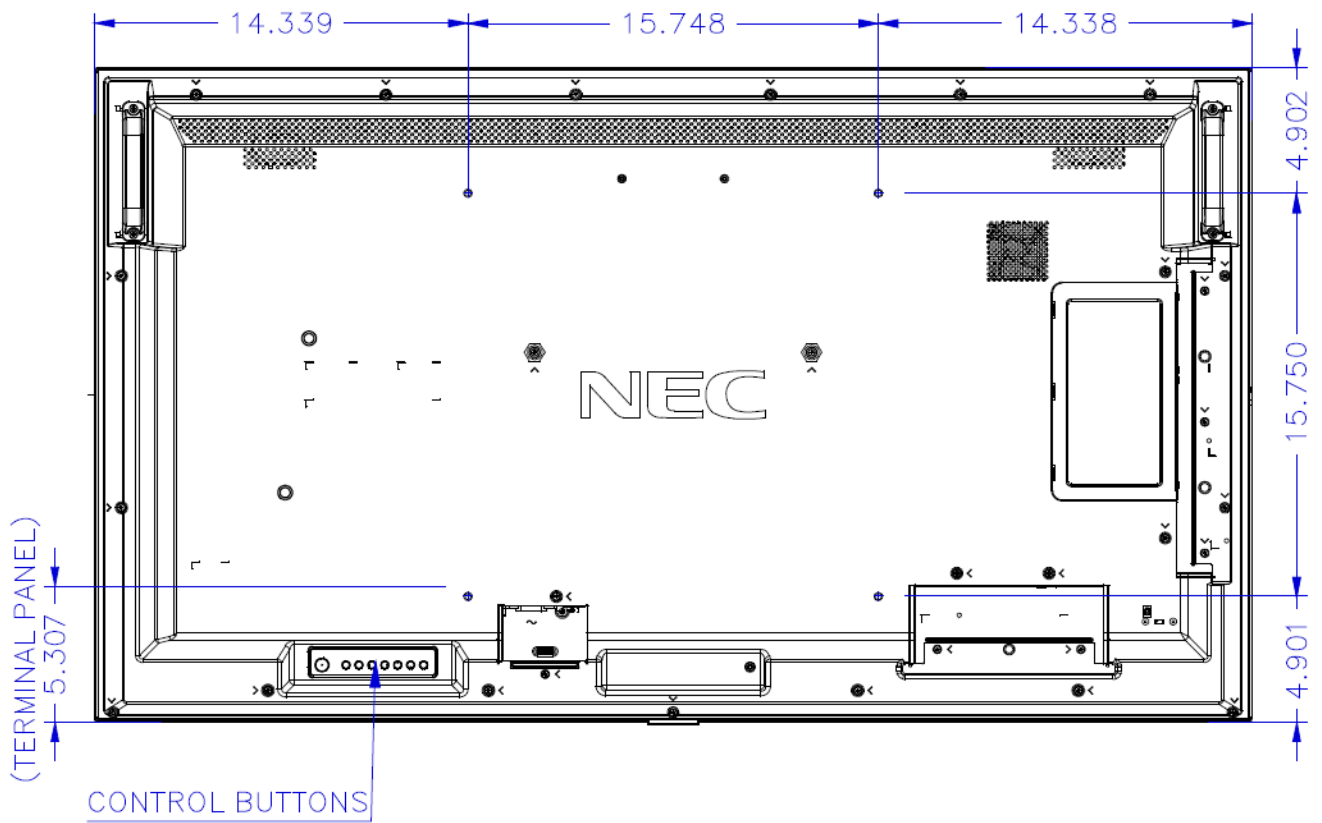## Dimensions

Display Dimensions – ME431:

38.307
37.212
(PANEL DISPLAY)
37.055
(ACTIVE AREA)

0.547 (13.9mm BEZEL)

5.816
8.465

22.096
21.001
(PANEL DISPLAY)
20.844
(ACTIVE AREA)
0.547 (13.9mm BEZEL)

3.287 (HANDLE DEPTH)
2.466 (DEPTH)
0.576

20.833

IR SENSOR
POWER LED

2.197
3.028

0.774

SDM-S SLOT
RPI CM4 SLOT
(SDM-L SLOT IS BOTH SLOTS COMBINED)

AC INLET
3.760
11.338

15.217
7.876
15.216

7.110

7.872

(TERMINAL PANEL)
4.481

7.111

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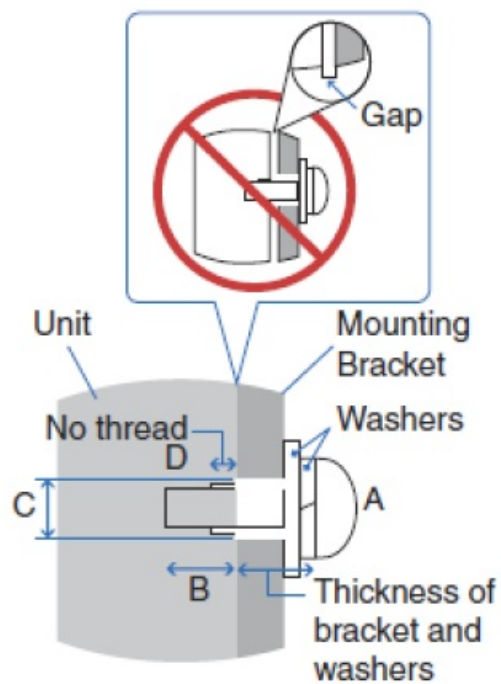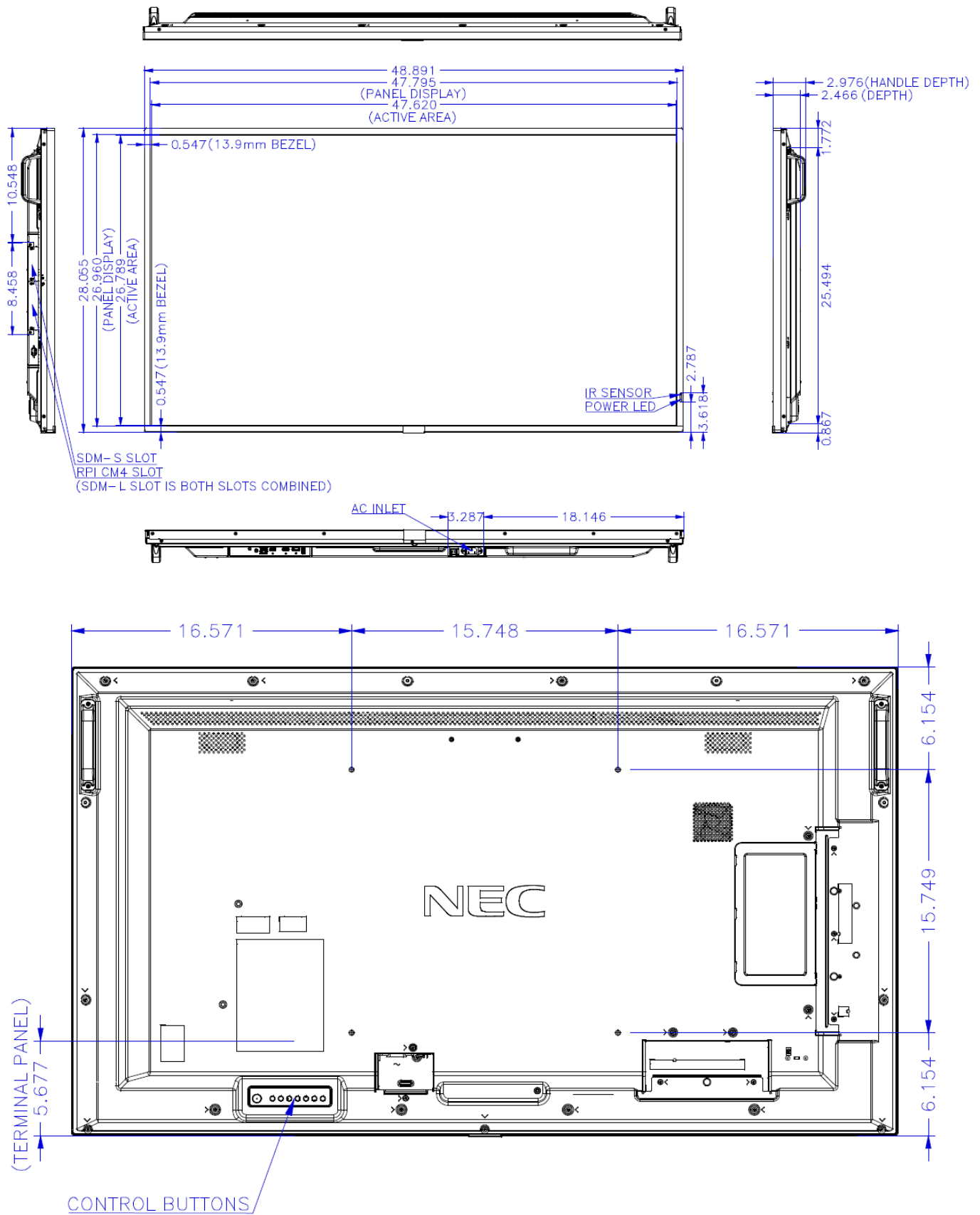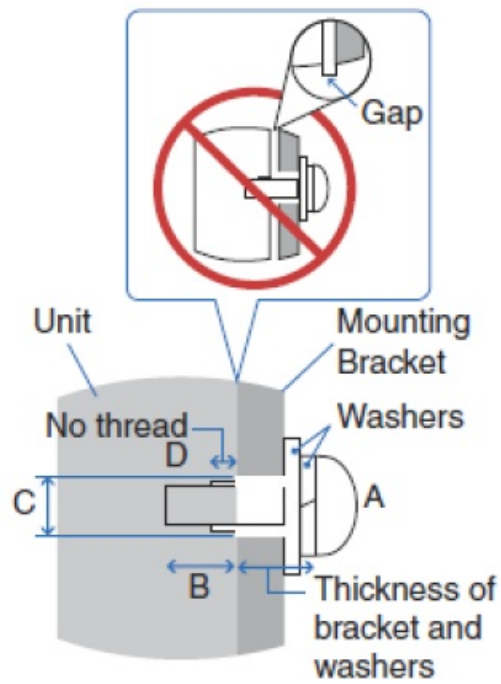
NEC strongly recommends using size M6 screws (10-12mm + the thickness of the bracket and washers in length).

Gap

Unit

Mounting Bracket

Washers

No thread

D

C

A

B

Thickness of bracket and washers

Display Dimensions – ME501:

44.425

43.251 (PANEL DISPLAY)

43.141 (ACTIVE AREA)

0.586(14.9mm BEZEL)

8.410

8.467

25.550

24.377 (PANEL DISPLAY)

24.267 (ACTIVE AREA)

0.586(14.9mm BEZEL)

3.042(HANDLE DEPTH)

2.465(DEPTH)

1.237

23.333

1.070

IR SENSOR
POWER LED

4.496

5.319

SDM-S SLOT
RPI CM4 SLOT
(SDM-L SLOT IS BOTH SLOTS COMBINED)

AC INLET

3.269

15.676
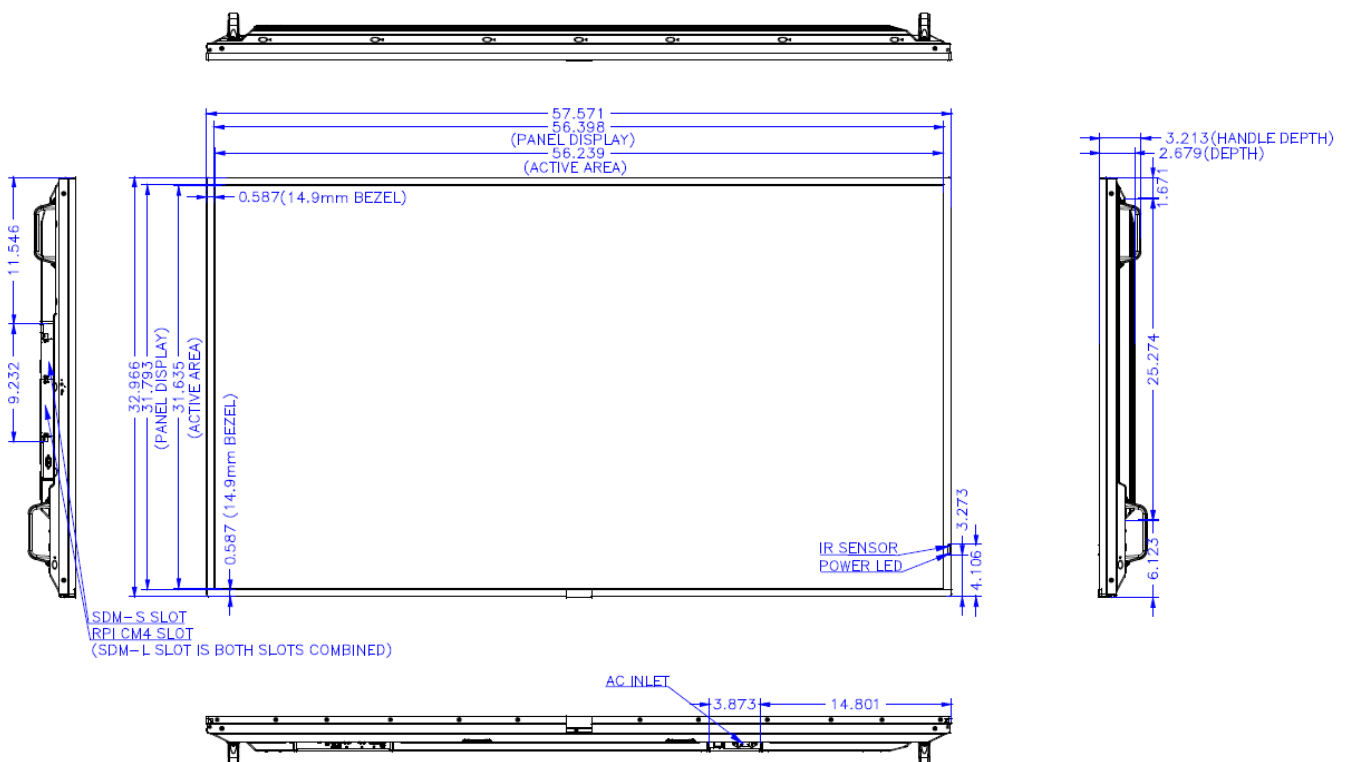
NEC strongly recommends using size M6 screws (10-12mm + the thickness of the bracket and washers in length).

Display Dimensions – ME551:

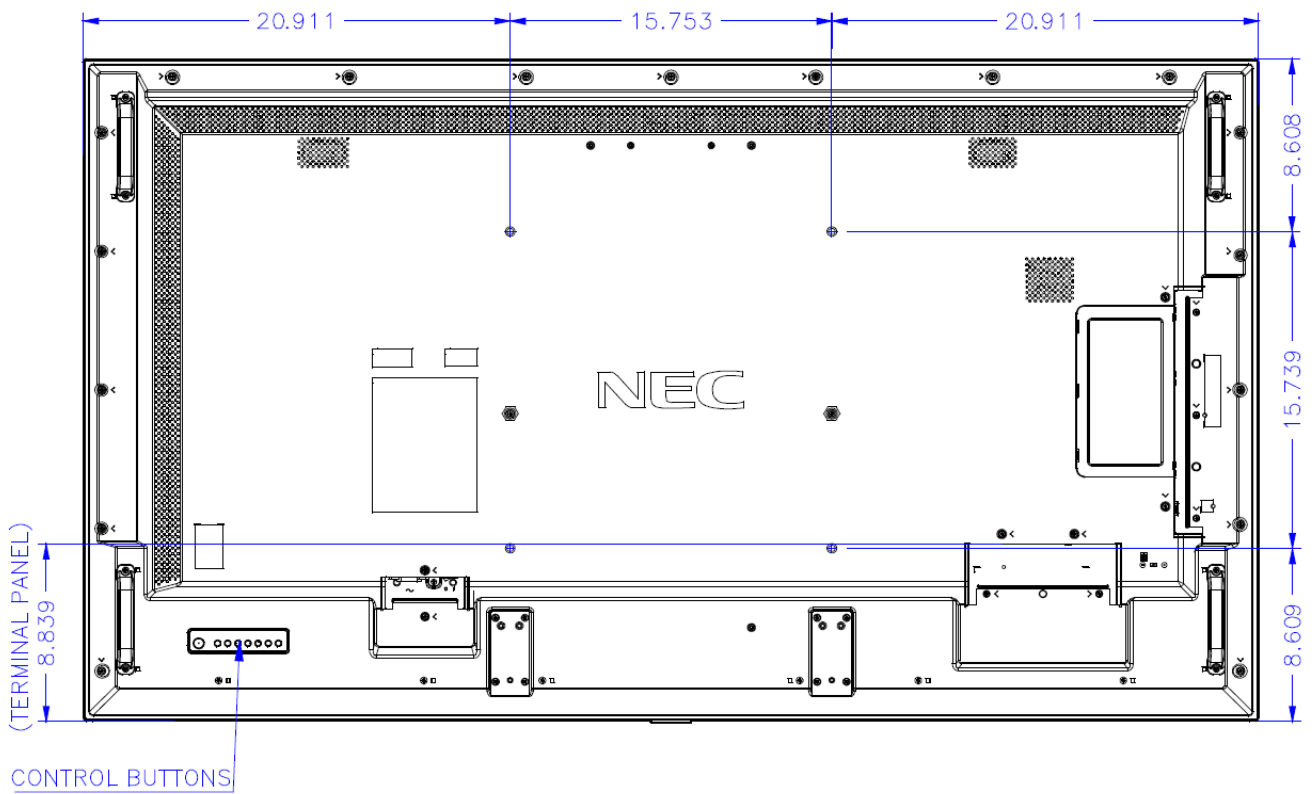48.891
47.795
(PANEL DISPLAY)
47.620
(ACTIVE AREA)

0.547(13.9mm BEZEL)

2.976(HANDLE DEPTH)
2.466 (DEPTH)

1.772

10.548

8.458

28.055
26.960
(PANEL DISPLAY)
26.789
(ACTIVE AREA)
0.547(13.9mm BEZEL)

25.494

2.787

IR SENSOR
POWER LED

3.618

0.867

SDM-S SLOT
RPI CM4 SLOT
(SDM-L SLOT IS BOTH SLOTS COMBINED)

AC INLET
3.287
18.146

16.571
15.748
16.571

6.154

15.749

(TERMINAL PANEL)
5.677

6.154

NEC

CONTROL BUTTONS

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

Gap

Unit

Mounting Bracket

Washers

No thread

D

C

B

A

Thickness of bracket and washers

Display Dimensions – ME651:

57.571
56.398
(PANEL DISPLAY)
56.239
(ACTIVE AREA)

0.587(14.9mm BEZEL)

11.546

9.232

32.966
31.793
(PANEL DISPLAY)
31.635
(ACTIVE AREA)

0.587 (14.9mm BEZEL)

3.213(HANDLE DEPTH)
2.679(DEPTH)

1.671

25.274

6.123

3.273

4.106

IR SENSOR
POWER LED

SDM-S SLOT
RPI CM4 SLOT
(SDM-L SLOT IS BOTH SLOTS COMBINED)

AC INLET

3.873

14.801

NEC strongly recommends using size M8 screws (16-18mm + the thickness of the bracket and washers in length).
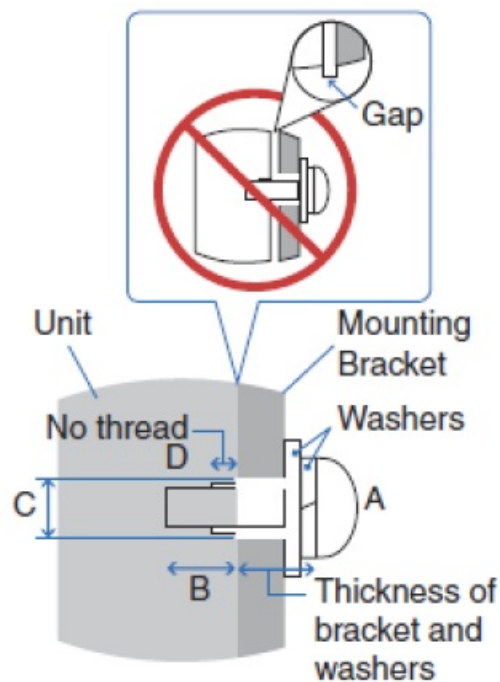
Installing and Removing the Optional Table Top Stand

- The ME431, M501 and M551 use the ST-401 or ST-43M. The ME651 utilizes the ST-65M
- Only use the screws that are included with the optional stand. The ST-65M will need included stand holders to also be attached

ME431	ST-43M (screws are included)
ME501 ME551	ST-401 or ST-43M (screws are included)
ME651	ST-65M (thumbscrews, screws, and stand holders are included)

ME651

Optional stand holder

Optional table top stand

Table

Soft cloth

ME431/ME501/ME551

400 mm

200 mm
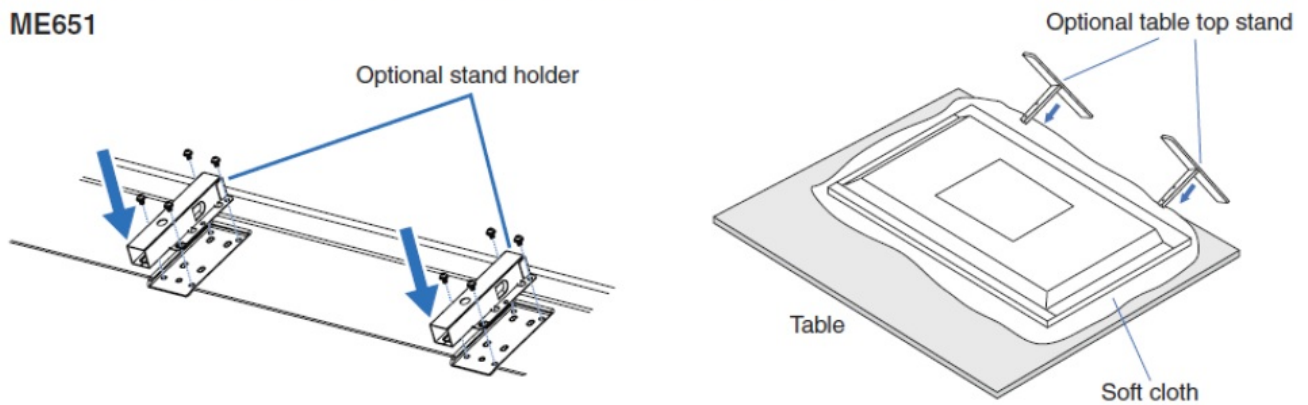
200 mm (ME431)
400 mm (ME501/ME551)
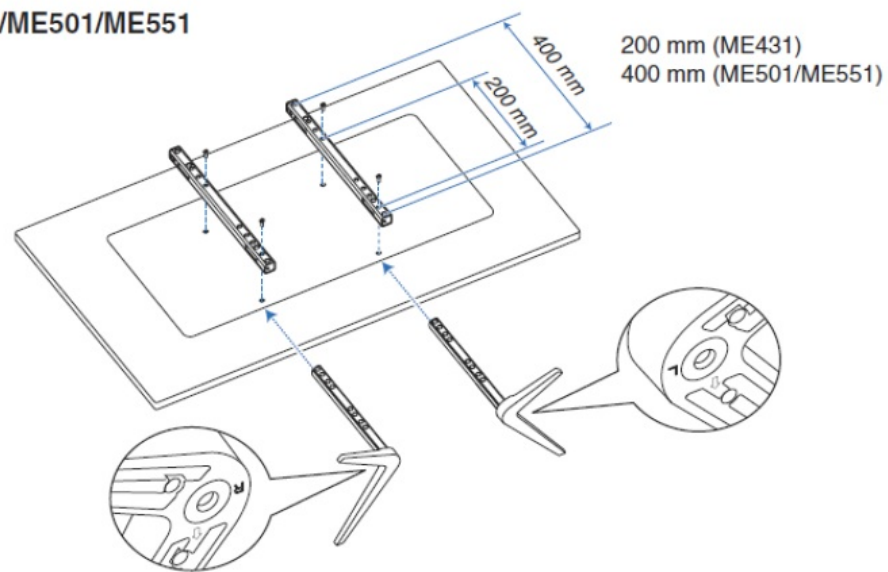
- **Table Top Stand Dimensions (ST-401 pictured below):**

POLE

13.429

16.733

1.063
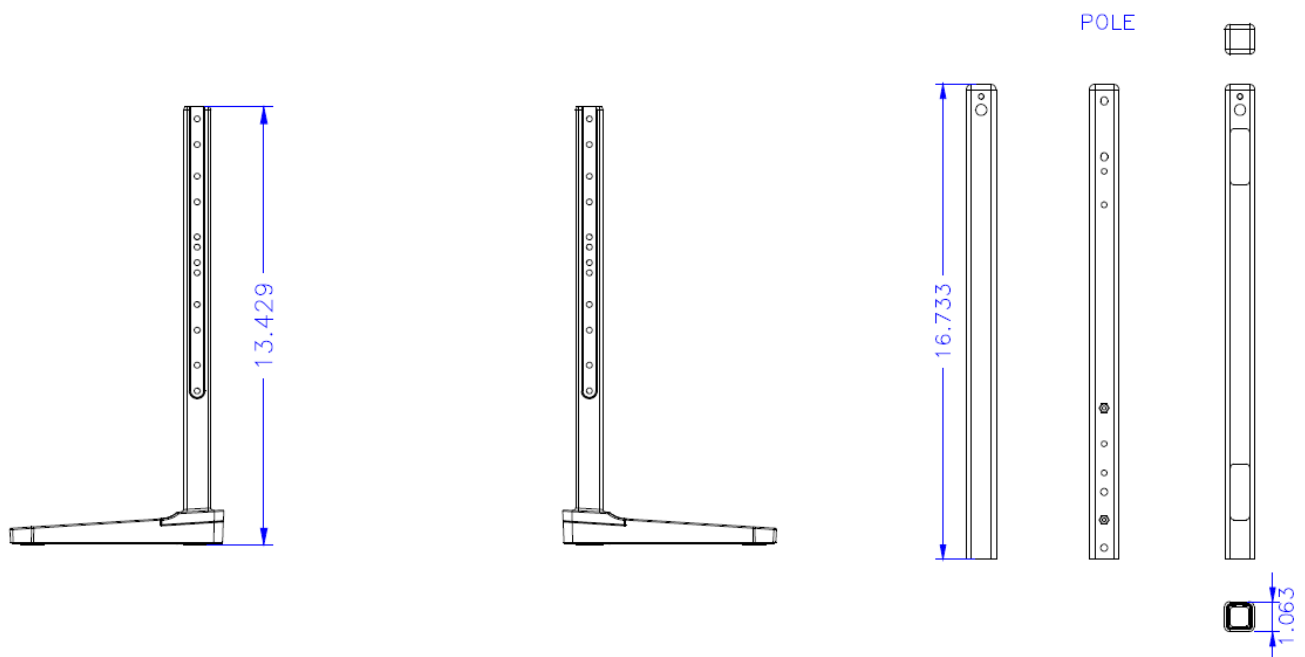
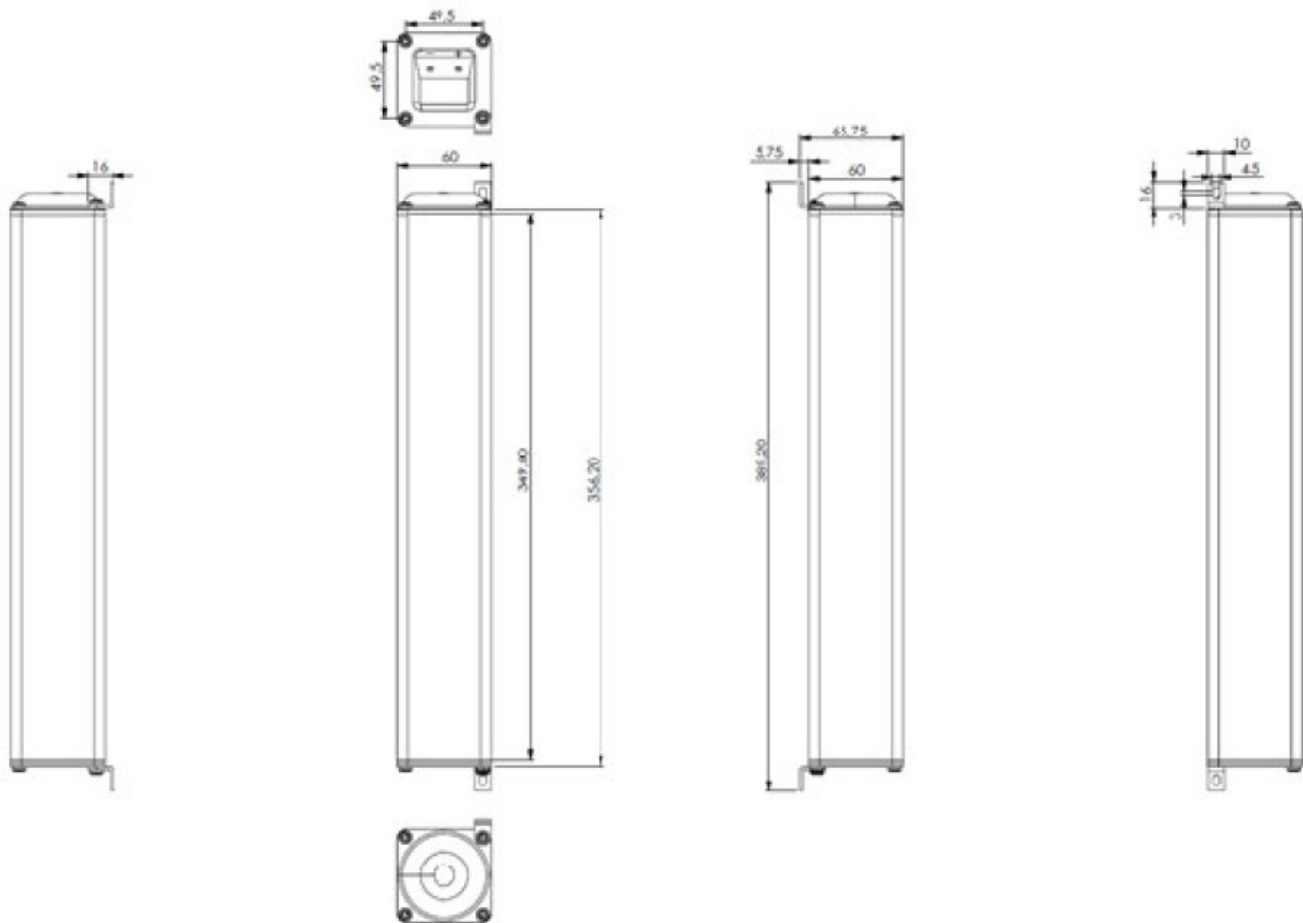**Table Top Stand Dimensions (ST-65M):**

Note – stand holder is included when the stand is purchased but is not included in drawing below
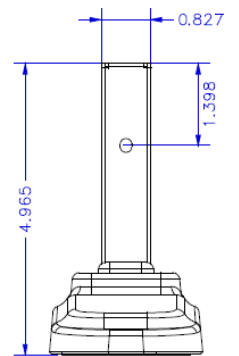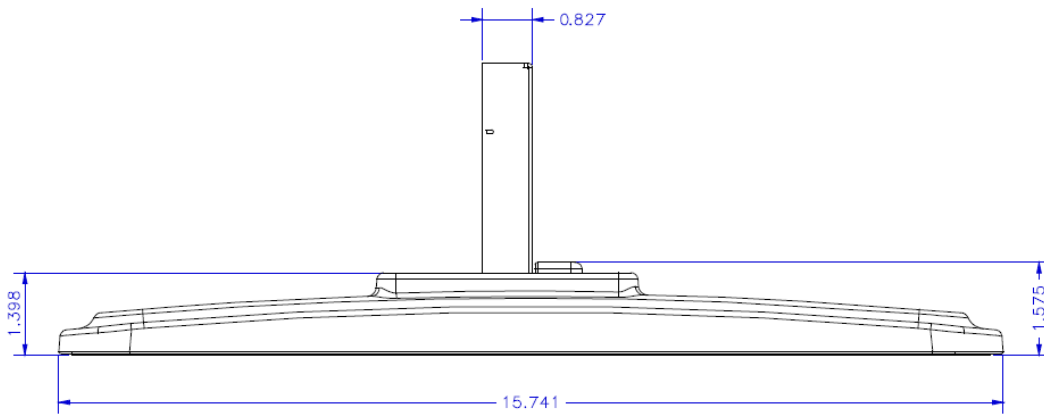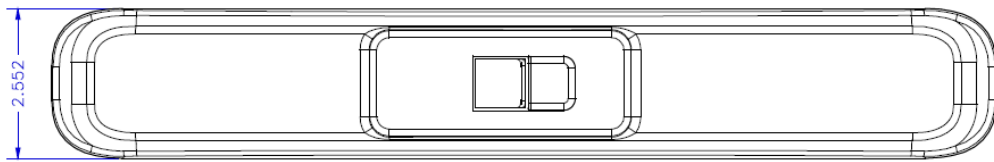
Optional Large Wall Mount (WMK-6598):
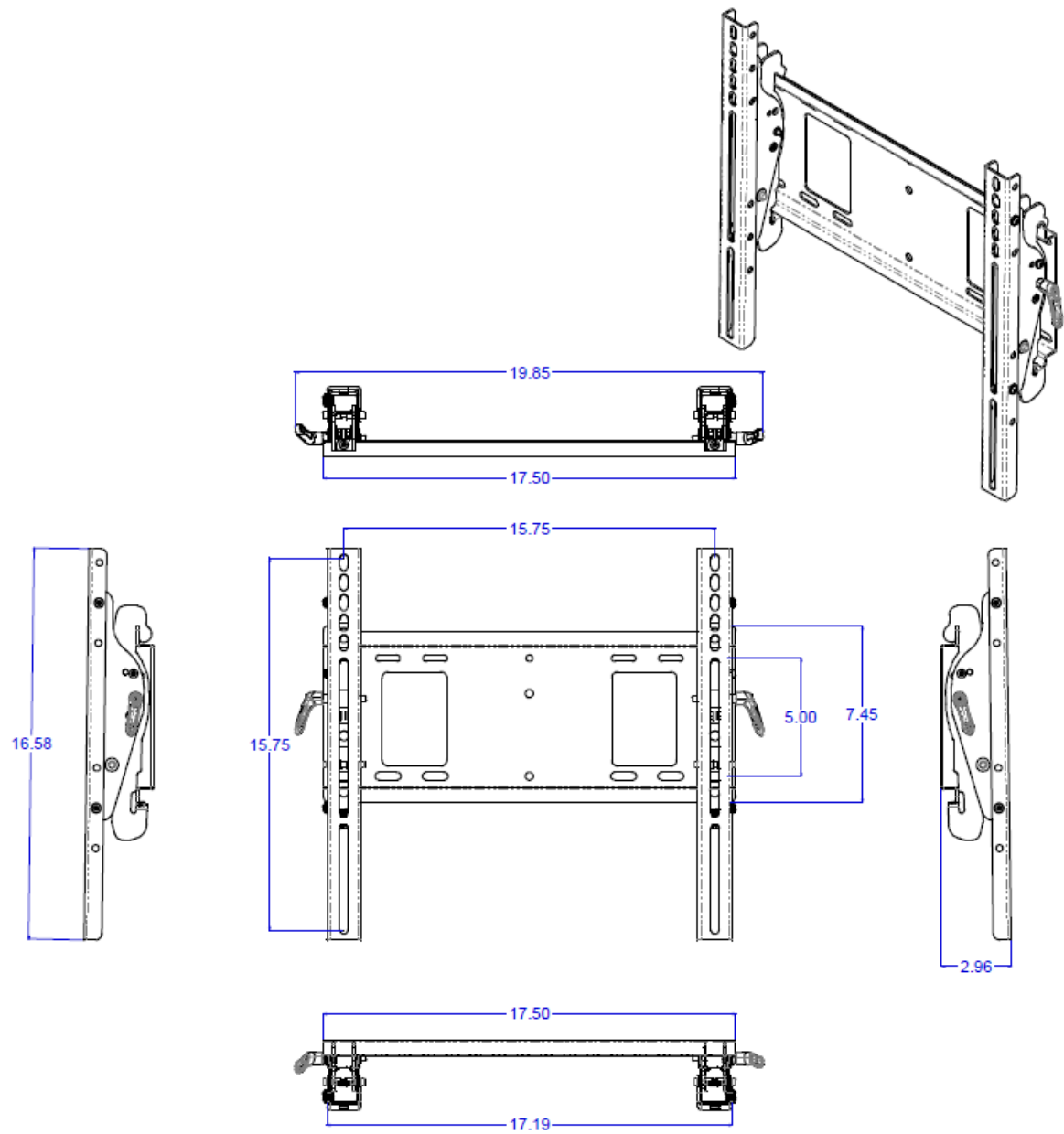
**Optional Speaker Dimensions (SP-RM3a):**

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 the Intel® SDM-L type option board, slide the CENTER RAIL to the right and remove it. Reverse the process to re-attach
3. Gently push in the SDM-S or SDM-L module
4. Attach included Option Cover after installation of SDM device.
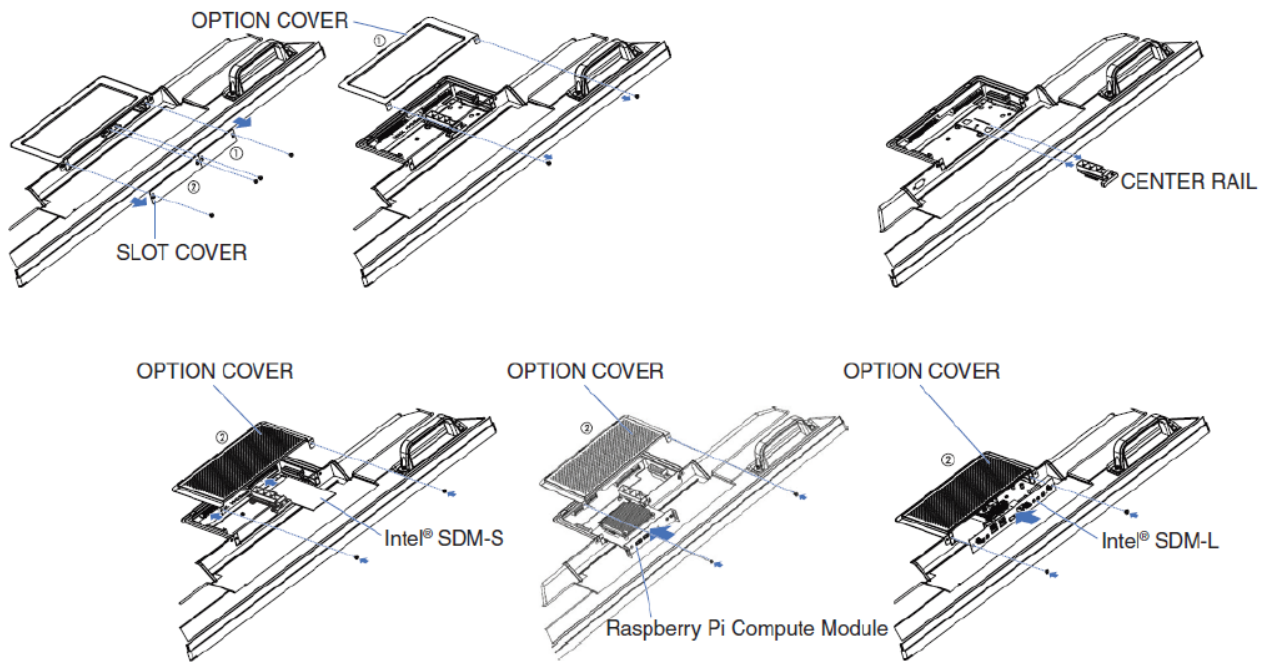
Compute Module Integration:

- 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
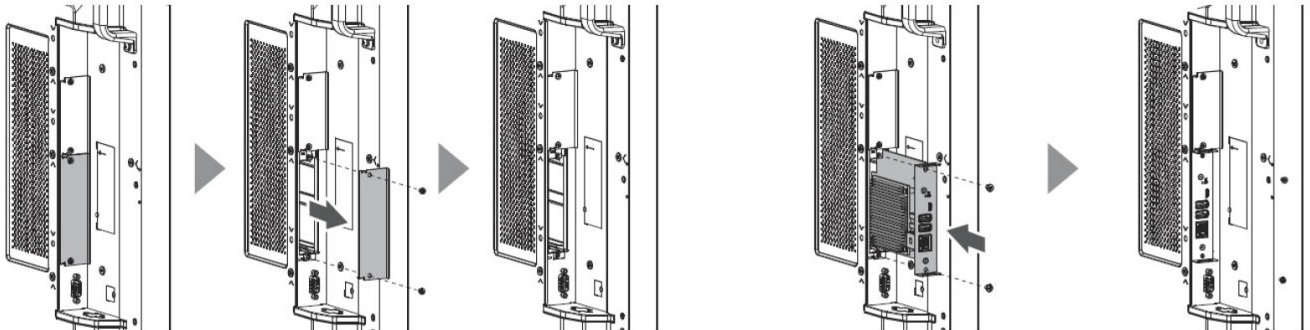
Final installed DS-IF20CE with RPI CM4 below

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 the 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**.
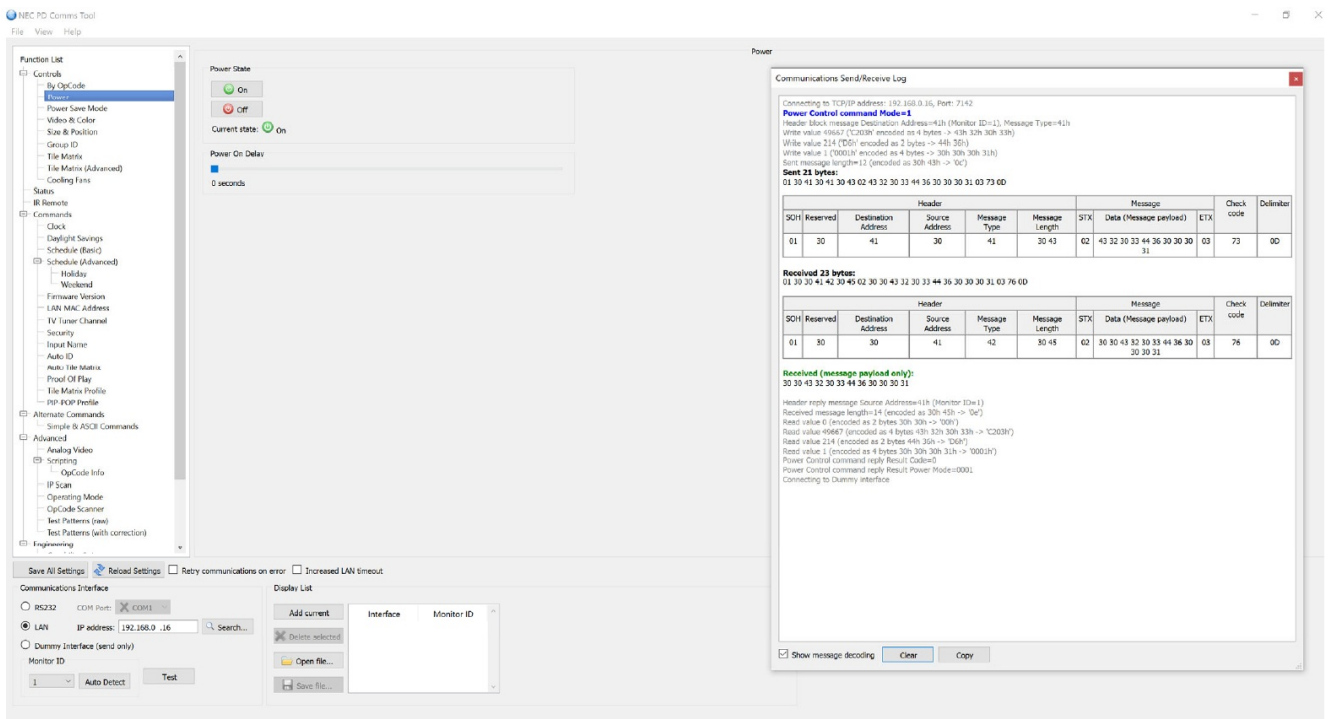
Cable Connection

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
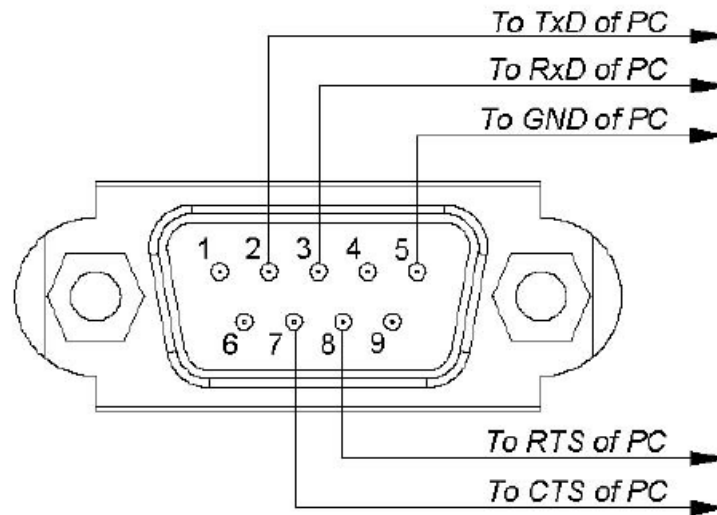
- **Interface:** Ethernet (CSMA/CD

- **Communication System:** TCP/IP (Internet Protocol Suite)

- **Communication Layer:** Transport layer (TCP)

- **IP Address:** 192.168.0.10 (default out of the box)

- **Port Number:** 7142 (Fixed)
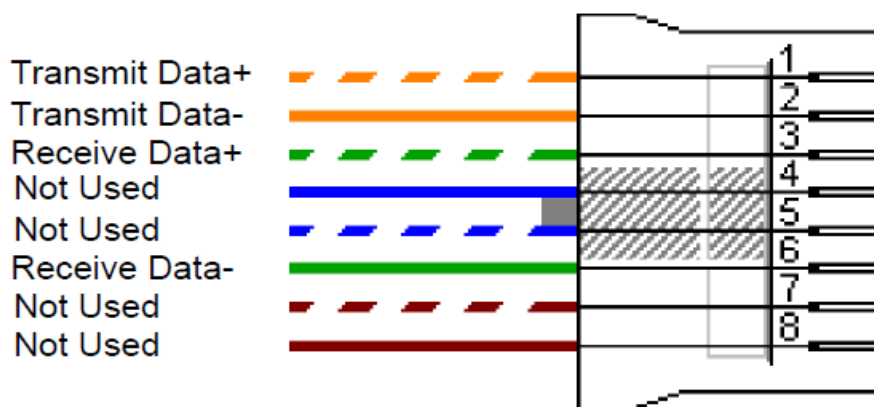
Browser Control:

Information and control can also be available through the HTTP browser control menu. To accomplish this, type: http://<the Monitor's IP address>/pd_index.html Note that the LAN Power needs to be turned on 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 the display that is being communicated with

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	45S00005TA

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

www.sharpusa.com.

Documents / Resources

SHARP Mxx1-2 Large Format Display [pdf] Installation Guide
Mxx1-2, Mxx1-2 Large Format Display, Mxx1-2, Large Format Display, Format Display, Display

References

- ⊕ **Sharp Electronics | SharpUSA**
- **User Manual**