50XM3 Installation Guide
50" Plasma Display

v1.0

Contents

Product Description

|			
Type:	Plasma Display	Screen Surface:	Anti-Reflective
Resolution:	1365x768	Dimensions:	48.1"(W) x 29.0"(H) x 3.8"(D)
Aspect Ratio:	16:9	Weight:	96.6 lbs
Color Correction:	NEC CCF (Capsulated Color Filter, in panel) and AccuCrimson (in front filter)		

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 display and the installation must be in accordance with any local building codes. All mounts should make secure contact to wood studs.
- 4:3 sources can be displayed on the 16:9 screen in either normal aspect ratio with bars on the left or right, or stretched horizontally to fill the screen using the menus (see "Aspect Modes" in menus and user manual).
- Distances are in inches, for millimeters multiply by 25.4.
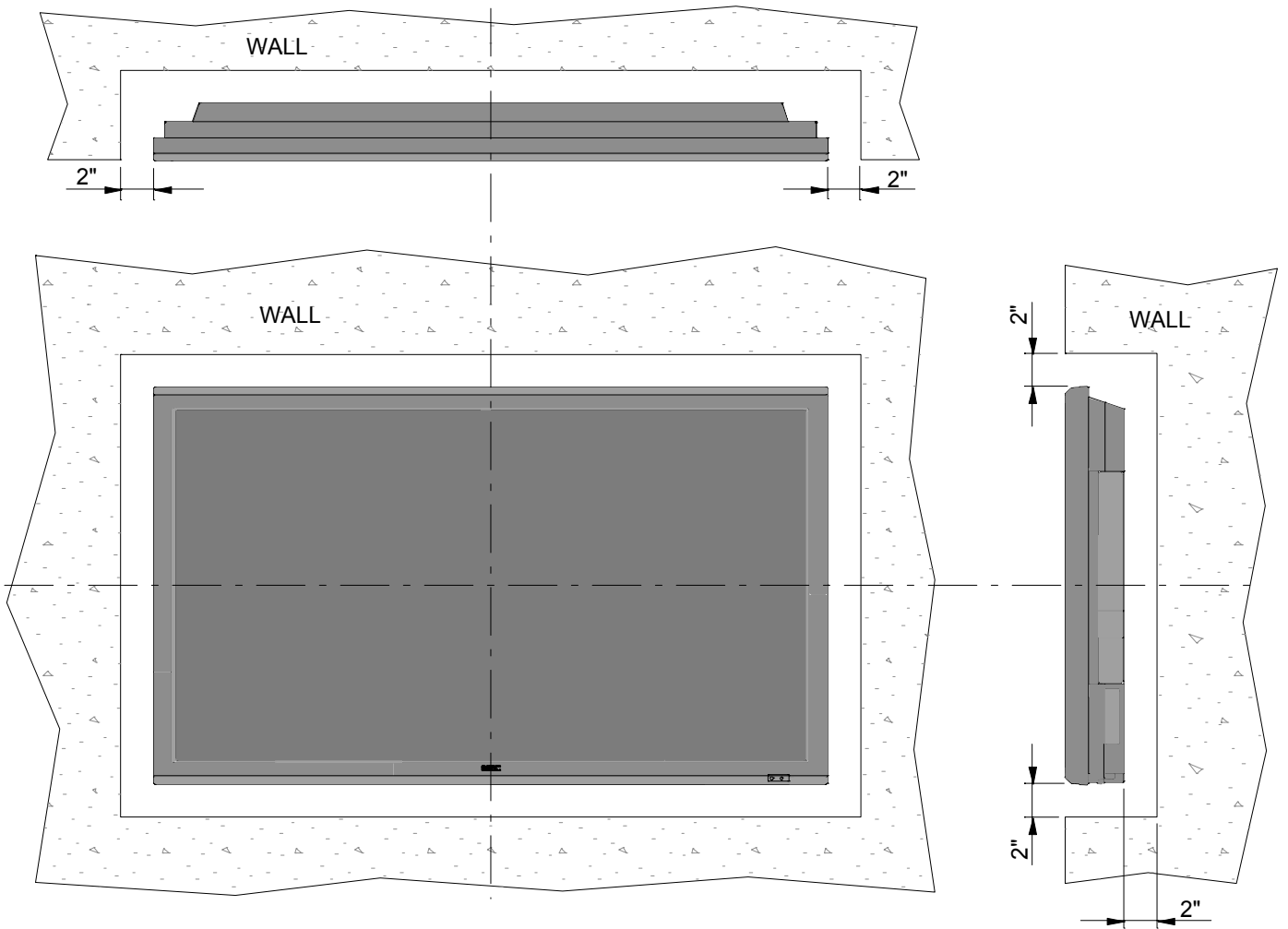- Distances may vary ±5%.

Maximum Tilt Angles

Below are the maximum angles that the display can be tilted in both landscape and portrait mode

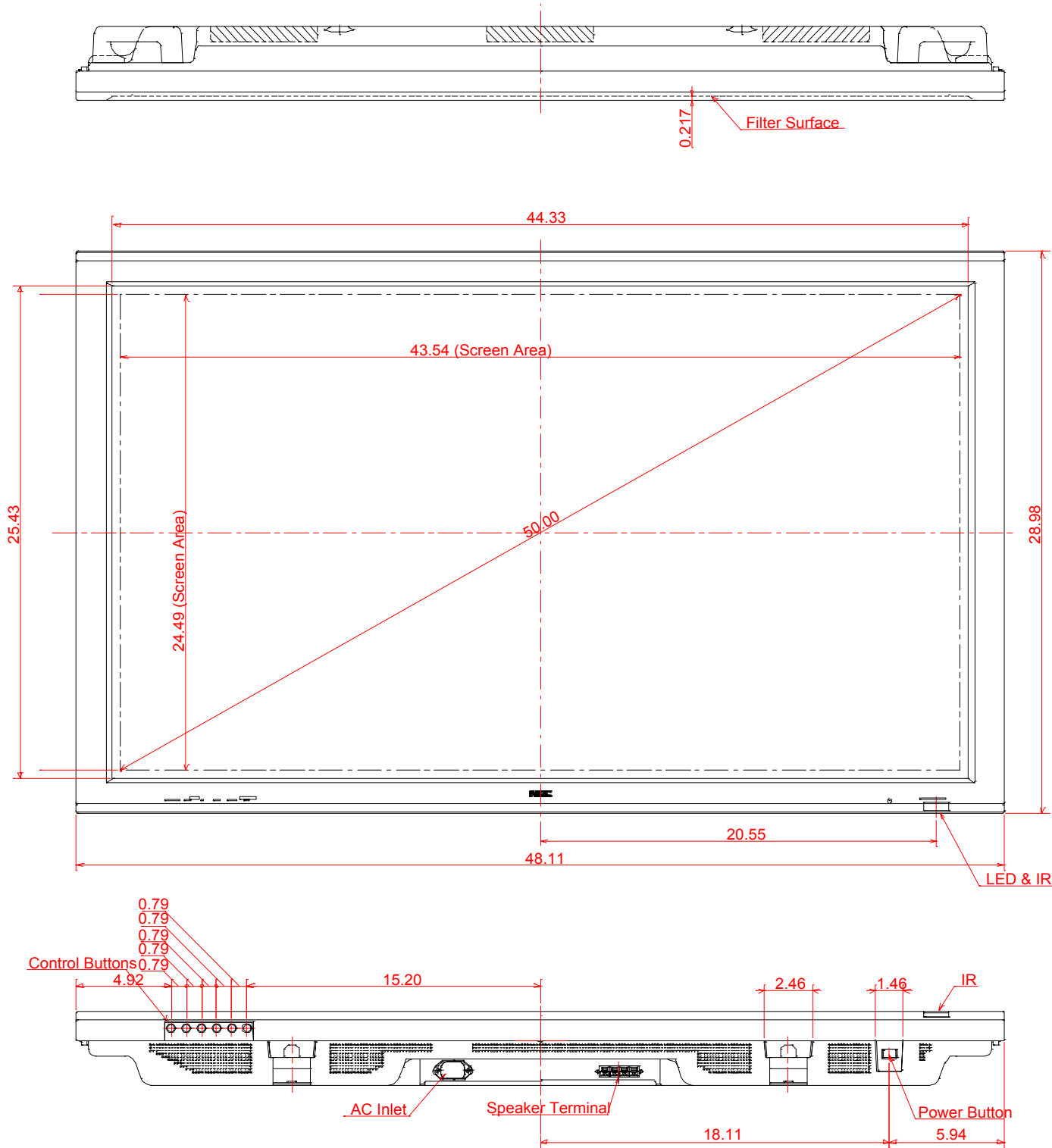|	
Landscape	30°
Portrait	10°

Max Tilt
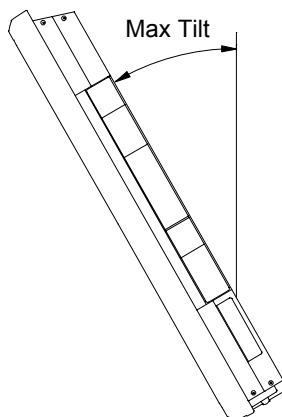
Ventilation Requirements

Dimensions below are minimum required for proper ventilation.

WALL

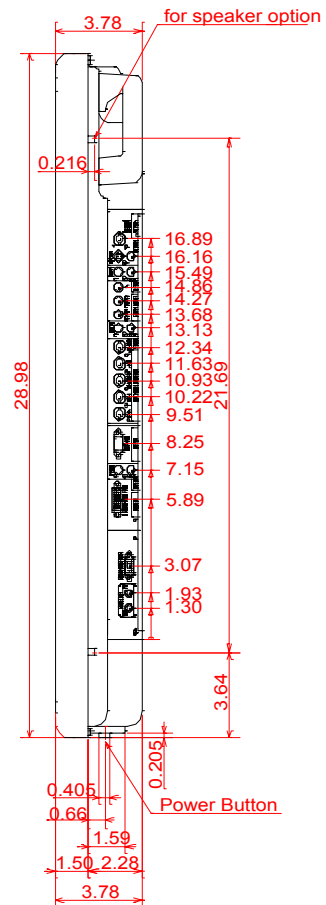2"   2"

WALL

WALL

2"

2"

2"

NOTE: *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

0.217

Filter Surface

44.33

43.54 (Screen Area)

25.43

24.49 (Screen Area)

50.00

28.98

20.55

48.11

LED & IR

Control Buttons

0.79
0.79
0.79
0.79
0.79

4.92

15.20

2.46

1.46

IR

AC Inlet

Speaker Terminal

Power Button

18.11

5.94

Display dimensions (cont.)

4-M4*10 MAX
for PC option

8-M4*14 MAX
for mount option

20.87
17.52

9.84

4.96
2.56
2.56
4.96

9.84

7.91

10.28

4.21

4.02

3.90

4.08

25.75

48.11

12°

0.469

0.217

13.88

13.96

0.59

0.91

3.78

for speaker option

0.216

28.98

16.89
16.16
15.49
14.86
14.27
13.68
13.13
12.34
11.63
10.93
10.22
9.51
8.25
7.15
5.89

21.69

3.07
1.93
1.30

3.64

0.205

0.405
0.66

Power Button

1.59
1.50 2.28
3.78

Dimensions with optional speakers and stand

43.54 (Screen Area)

24.49 (Screen Area)

50.00

28.98

3.78

28.98

31.77

2.80

32.05

48.11

55.24

6.72

15.75
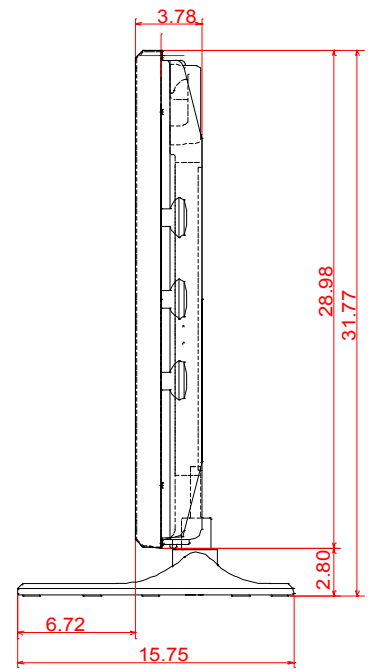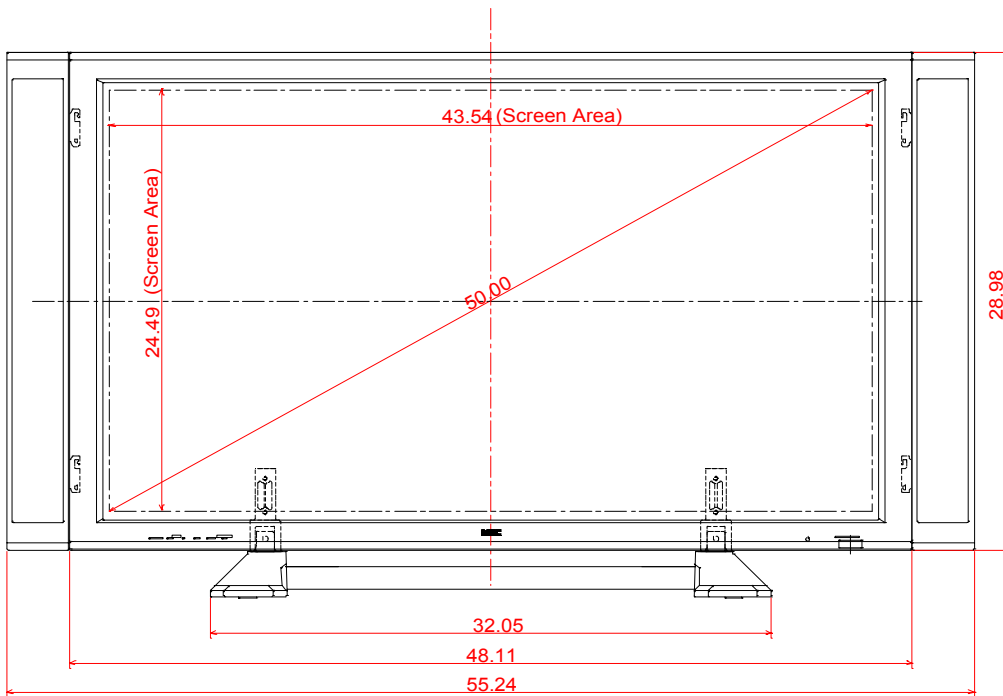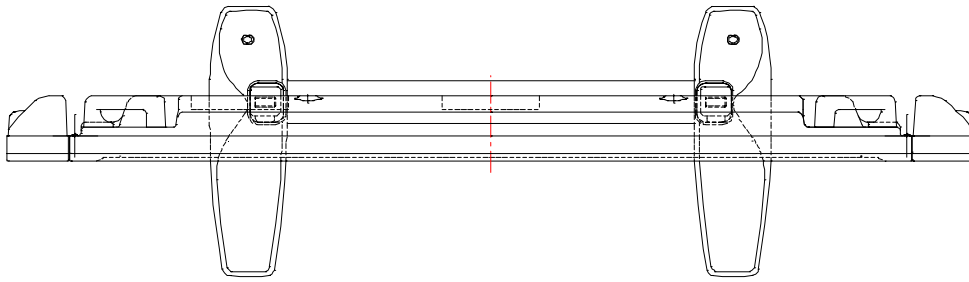
Dimensions with optional Flat Wall Mount Kit (FWMK)
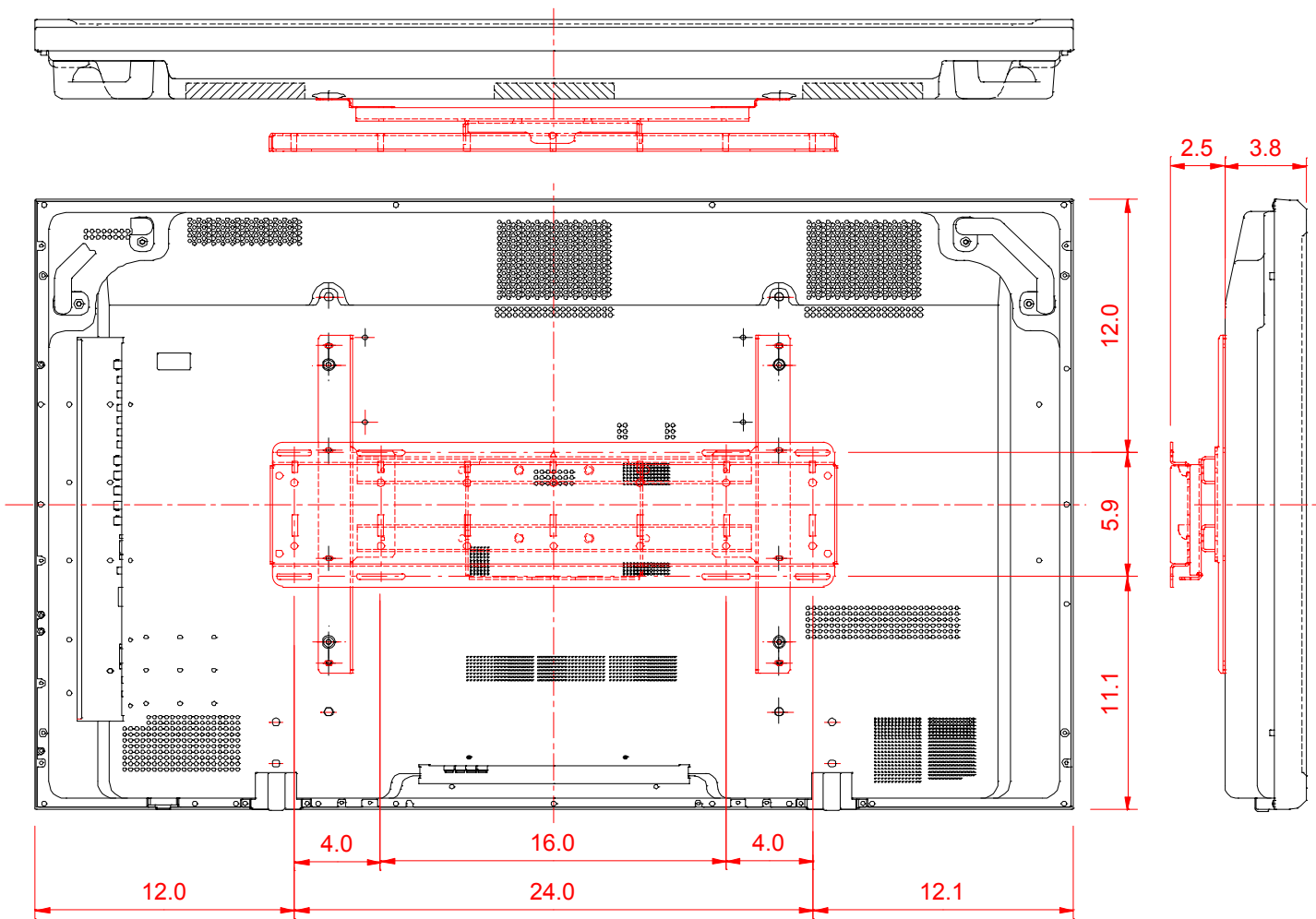
Note: *The mount holes are 1.14" higher on the 50XM3 than on the 50MP2(PX-50XM2) due to a higher center of gravity. (mount pattern is the same)*

Dimensions with optional Tilt Wall Mount Kit (TWMK)

5.0 3.8

12.0

5.9

11.1

4.0   16.0   4.0

12.1   24.0   12.0

Note: The mount holes are 1.14" higher on the 50XM3 than on the 50MP2(PX-50XM2) due to a higher center of gravity. (mount pattern is the same)

12.9
Depth at 15° Tilt

Dimensions with optional Ceiling Mount Kit (CMK)

16.2 16.0 15.9 0.23

2.5

1.5

24.3 23.8
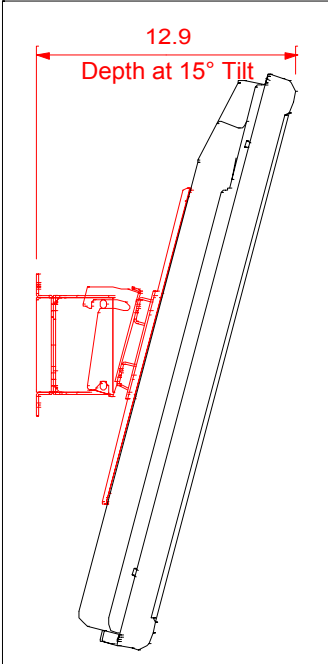
Tilt Range: 0° - 15°

15.2

29.0

8.0
Tilt 0°

12.0
Tilt 15°

Note: The mount holes are 1.14" higher on the 50XM3 than on the 50MP2(PX-50XM2) due to a higher center of gravity. (mount pattern is the same)
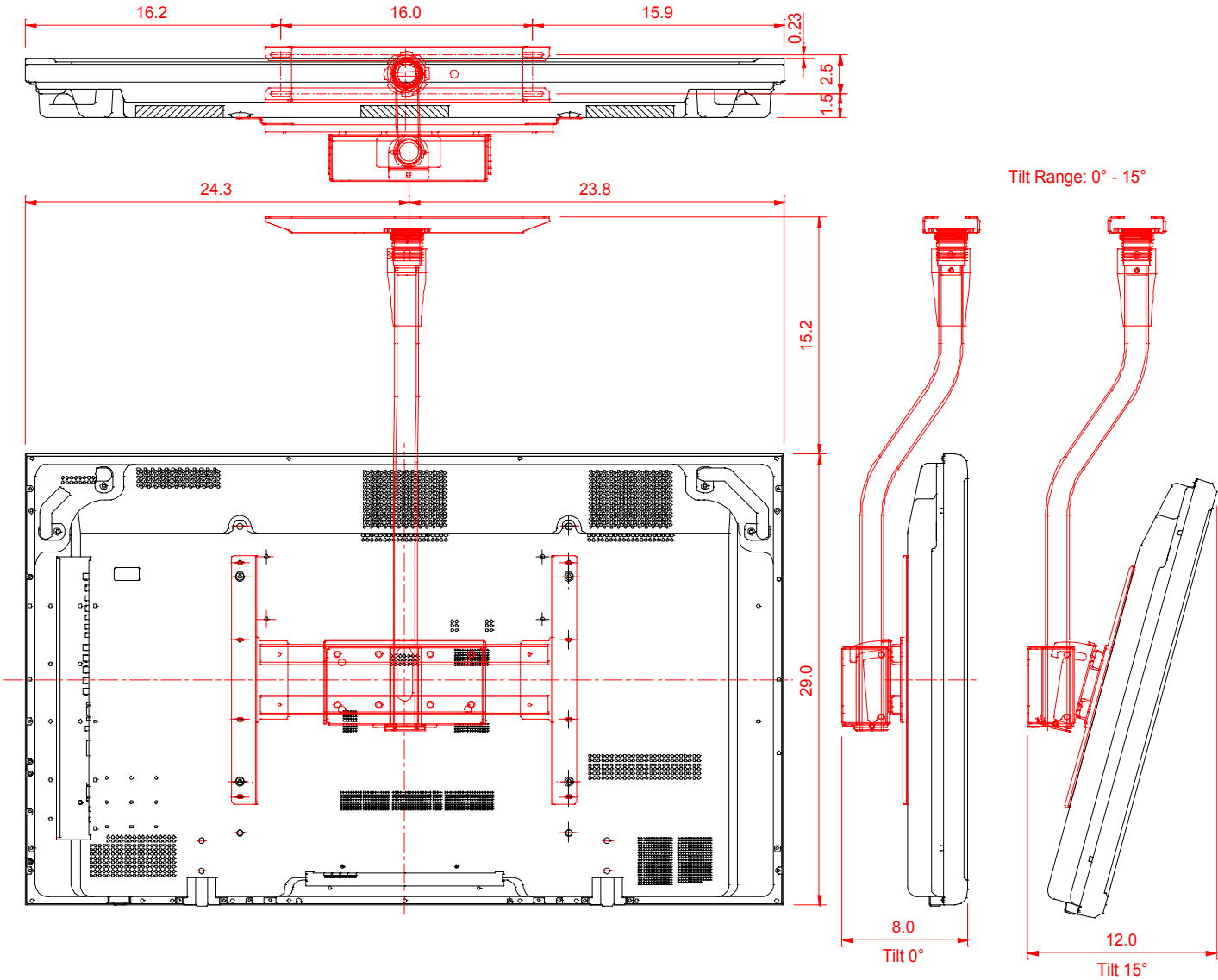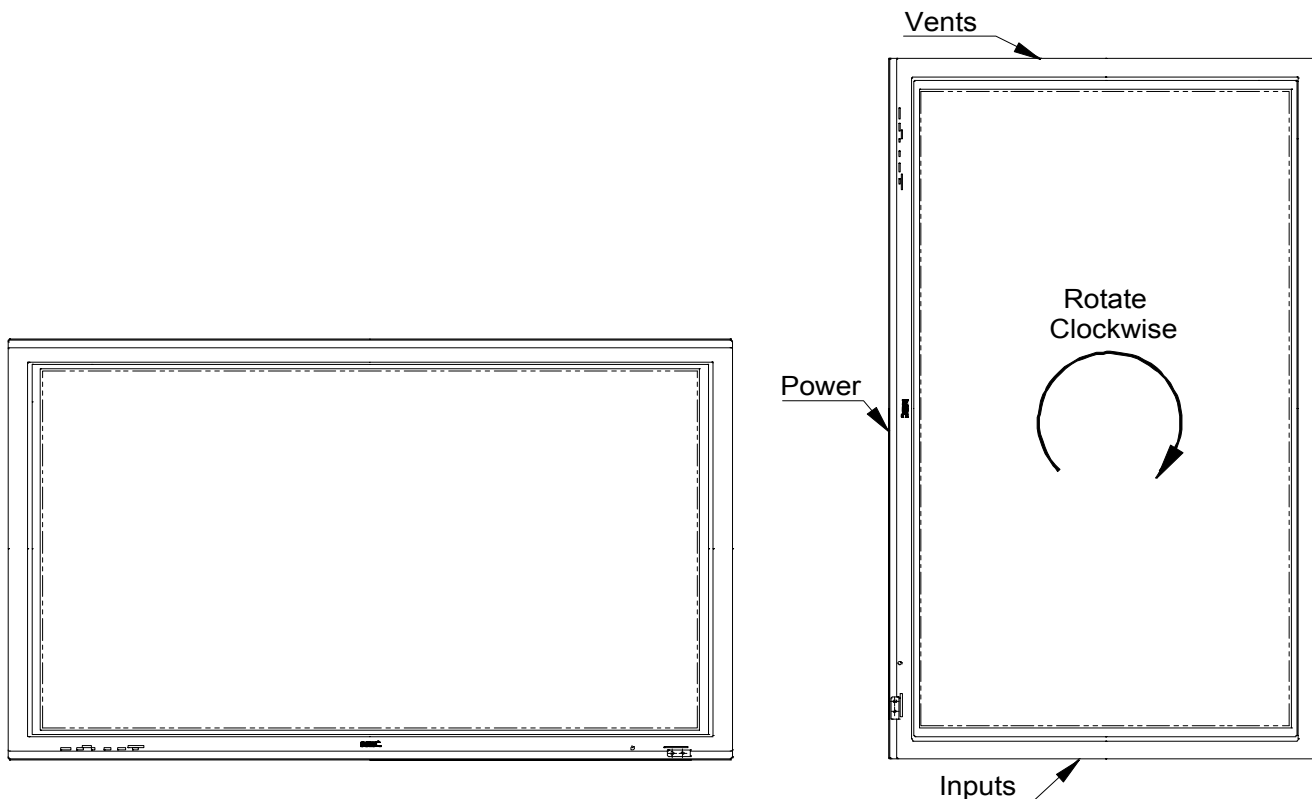
Portrait Mode

Rotating the Display

The display must be rotated clockwise so the input panel is at the bottom and vents are at the top.
Rotating the display counter-clockwise will not allow the unit to cool properly and will void the warranty.

Vents

Rotate
Clockwise

Power

Inputs

Rotating Source Content

Note: The display is not capable of rotating any source content.

PC
Pivot® software from Portrait Displays, Inc. (www.portrait.com) allows you to rotate the Windows operating system 90 degrees. This software installs in Windows on the PC and allows you to select landscape or rotate 90 degrees to portrait mode. Everything running in the Windows environment is also rotated.

Note: All displays connected to the PC will have to support rotating to portrait mode.

NTSC Video
NTSC Video has to be brought into a PC with the appropriate hardware and software, and sent back out through the PC graphics output. The method to rotate the video would then be the same as above and done within the PC Windows environment.

Connections

VIDEO
VIDEO 1 (IN/OUT)
VIDEO 2
VIDEO 3

AUDIO 1
R
L (MONO)

DVD 1/HD 1
Y
Cb/Pb
Cr/Pr

AUDIO 2
R
L (MONO)

RGB 2/DVD 2/HD 2
R/ Cr/Pr
G/ Y
B/ Cb/Pb
HD
VD

RGB 1
(IN/OUT)

AUDIO 3
R
L (MONO)

RGB 3
DVI (Digital RGB)

External Control
IN
REMOTE
OUT

LOCATED AT
BOTTOM OF DISPLAY

POWER

EXT. SPEAKERS
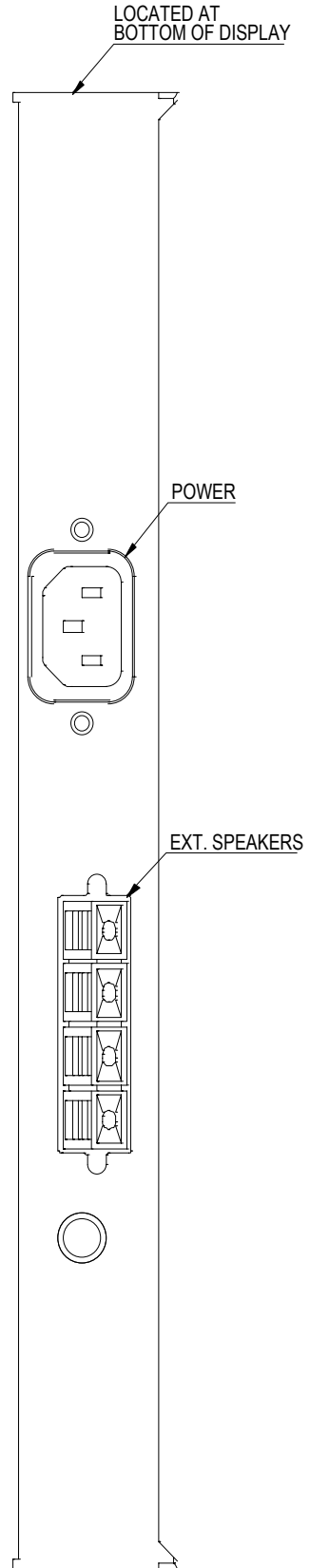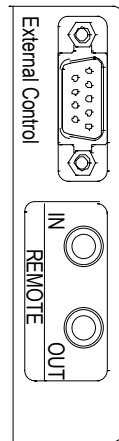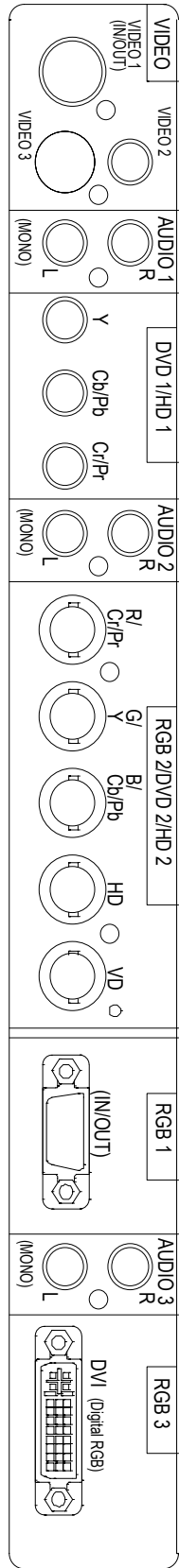
Control Codes

Function		Code Data							
POWER	ON	9FH	80H	60H	4EH	00H	CDH		
	OFF	9FH	80H	60H	4FH	00H	CEH		
INPUT SWITCH	VIDEO1 (BNC)	DFH	80H	60H	47H	01H	01H	08H	
	VIDEO2 (RCA)	DFH	80H	60H	47H	01H	02H	09H	
	VIDEO3 (S-Video)	DFH	80H	60H	47H	01H	03H	0AH	
	DVD1/HD1 (RCA/Component)	DFH	80H	60H	47H	01H	05H	0CH	
	DVD2/HD2 (5BNC/Component)	DFH	80H	60H	47H	01H	06H	0DH	
	RGB1 (15pin HD)	DFH	80H	60H	47H	01H	07H	0EH	
	RGB2 (5BNC/RGB)	DFH	80H	60H	47H	01H	08H	0FH	
	RGB3 (DVI)	DFH	80H	60H	47H	01H	0CH	13H	
AUDIO MUTE	ON	9FH	80H	60H	3EH	00H	BDH		
	OFF	9FH	80H	60H	3FH	00H	BEH		
PICTURE MODE	NORMAL	DFH	80H	60H	0AH	01H	01H	CBH	
	THEAT.1	DFH	80H	60H	0AH	01H	02H	CCH	
	THEAT.2	DFH	80H	60H	0AH	01H	03H	CDH	
	DEFAULT	DFH	80H	60H	0AH	01H	04H	CEH	
SCREEN MODE:	STADIUM	DFH	80H	60H	51H	01H	02H	13H	
	ZOOM	DFH	80H	60H	51H	01H	03H	14H	
	NORMAL	DFH	80H	60H	51H	01H	04H	15H	
	FULL	DFH	80H	60H	51H	01H	05H	16H	
AUTO PICTURE	ON	DFH	80H	60H	7FH	03H	03H	09H	00H	4DH
	OFF	DFH	80H	60H	7FH	03H	03H	09H	01H	4EH
CINEMA MODE	ON	DFH	80H	60H	C1H	01H	01H	82H	
	OFF	DFH	80H	60H	C1H	01H	02H	83H	

NOTE: Contact your NEC rep for codes not listed.
NOTE: Use a cross/reverse/null modem cable.

Cable Connection

Communication Protocol:

Interface:	RS-232C	Parity:	Odd
Communication:	Asynchronous	Stop Bit:	1 bit
Baud Rate:	9600 bps	Communication Code:	Hex
Data Length:	8 bits		

PC Control Connector (D-Sub 9P)
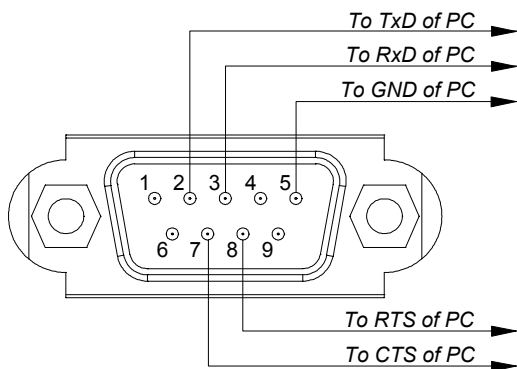
NOTE: Jumper "Request to send" and "Clear to Send" together on both ends of the cable to simplify cable connection.