Legamaster

We make communication visible

Discover Professional display
Integration Manual

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Integration Manual - Version 1.0

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PRODUCT SPECIFICATIONS

1. PRODUCT SPECIFICATIONS

PRODUCT SPECIFICATIONS				
Screen Size	65”	75”	85”	98”
Panel Technology	LCD TFT, IPS	LCD TFT, IPS	LCD TFT, IPS	LCD TFT, IPS
Display Resolution	3840 x 2160	3840 x 2160	3840 x 2160	3840 x 2160
Brightness	400 cd/m2	450 cd/m2	450 cd/m2	500 cd/m2
Contrast	1200:1	1200:1	1200:1	1200:1
Response Time	8ms	8ms	8ms	8ms
Frame Rate	60Hz	60Hz	60Hz	60Hz
Viewing Angle	178°	178°	178°	178°
Display Colors	1.07B	1.07B	1.07B	1.07B
Backlight Type	Direct LED	Direct LED	Direct LED	Direct LED
Service Life	50.000Hrs	50.000Hrs	50.000Hrs	50.000Hrs
Orientation	Landscape	Landscape	Landscape	Landscape
Operating System	Android 8.0	Android 8.0	Android 8.0	Android 8.0
Input Connectors	HDMi 2.0 1x, DP 1.2 x 1, VGA x 1, DVI-D x1, BNC x1, USB 2.0 x2, Audio in 3.5mm x1, LAN x1, RS232 x 1			
Output Connectors	Audio Out, S/PDif Out			
OPS Slot	Yes	Yes	Yes	Yes
Audio Power Output	2 x 15W	2 x 15W	2 x 15W	2 x 15W
Power Supply	AC 100-240V 50/60Hz	AC 100-240V 50/60Hz	AC 100-240V 50/60Hz	AC 100-240V 50/60Hz
Operation Temperature	0 – 40°C	0 – 40°C	0 – 40°C	0 – 40°C
Operation Humidity	20 – 80% RH (No Cond.)	20 – 80% RH (No Cond.)	20 – 80% RH (No Cond.)	20 – 80% RH (No Cond.)
VESA Standard	600 x 400	800 x 400	800 x 600	800 x 600

SERIAL COMMUNICATIONS

2. SERIAL COMMUNICATIONS

The display uses a simple text-based control protocol to take requests from control devices and to provide responses to such devices. This section describes how to send control messages over a serial link between the display and an automation/control system or a PC running a terminal emulation program such as Windows® HyperTerminal or Tera Term.

2.1 RS-232 CONNECTION AND PORT CONFIGURATION

Connect your control system or PC to the RS-232 input of the display.

Configure the RS-232 controller or PC serial port as follows:

- Baud rate: 38400
- 8bit
- non parity
- 1 stop bit

LAN Port: 4660

SERIAL COMMUNICATIONS

2.2 RS-232 INTERFACE

Control Item	Set Function	Command Code (HEX)	HEX (ID=1) C. ID Ty Cm #1 #2 #3 CR	ASCII Code ID=01
Power Control	HDTV Power STBY	41 (A)	6B 30 31 73 41 30 30 30 0D	k01sA000<CR>
	HDTV Power ON	41 (A)	6B 30 31 73 41 30 30 31 0D	k01sA001<CR>
Input Selection	Input Select : BNC	42 (B)	6B 30 31 73 42 30 30 31 0D	k01sB001<CR>
	Input Select : OPS	42 (B)	6B 30 31 73 42 30 30 34 0D	k01sB004<CR>
	Input Select : HDMI1	42 (B)	6B 30 31 73 42 30 31 34 0D	k01sB014<CR>
	Input Select : DVI	42 (B)	6B 30 31 73 42 30 32 34 0D	k01sB024<CR>
	Input Select : VGA	42 (B)	6B 30 31 73 42 30 30 36 0D	k01sB006<CR>
	Input Select : SDI	42 (B)	6B 30 31 73 42 30 30 37 0D	k01sB007<CR>
	Input Select : DP	42 (B)	6B 30 31 73 42 30 30 39 0D	k01sB009<CR>
	Input Select : Home	42 (B)	6B 30 31 73 42 30 30 41 0D	k01sB00A<CR>
Display Adjustments	Contrast	43 (C)	6B 30 31 73 43 3x 3x 3x 0D	k01sCxxx<CR>
	Brightness	44 (D)	6B 30 31 73 44 3x 3x 3x 0D	k01sDxxx<CR>
	Sharpness	45 (E)	6B 30 31 73 45 3x 3x 3x 0D	k01sExxx<CR>
	Saturation	46 (F)	6B 30 31 73 46 3x 3x 3x 0D	k01sFxxx<CR>
	Hue	47 (G)	6B 30 31 73 47 3x 3x 3x 0D	k01sGxxx<CR>
	Color Mode : NORMAL	48 (H)	6B 30 31 73 48 30 30 30 0D	k01sH000<CR>
	Color Mode : WARM	48 (H)	6B 30 31 73 48 30 30 31 0D	k01sH001<CR>
	Color Mode : COLD	48 (H)	6B 30 31 73 48 30 30 32 0D	k01sH002<CR>
	Color Mode : USER	48 (H)	6B 30 31 73 48 30 30 33 0D	k01sH003<CR>
Audio Settings	Bass	4A (J)	6B 30 31 73 4A 3x 3x 3x 0D	k01sJxxx<CR>
	Treble	4B (K)	6B 30 31 73 4B 3x 3x 3x 0D	k01sKxxx<CR>
	Volume	50 (P)	6B 30 31 73 50 3x 3x 3x 0D	k01sPxxx<CR>
	Volume: Down (-1)	50 (P)	6B 30 31 73 50 32 30 30 0D	k01sP200<CR>
	Volume: Up (+1)	50 (P)	6B 30 31 73 50 32 30 31 0D	k01sP201<CR>
	Mute : OFF	51 (Q)	6B 30 31 73 51 30 30 30 0D	k01sQ000<CR>
	Mute : ON(mute)	51 (Q)	6B 30 31 73 51 30 30 31 0D	k01sQ001<CR>
Picture Adjustments	Picture Size: Full(16:9)	4D (M)	6B 30 31 73 4D 30 30 30 0D	k01sM000<CR>
	Picture Size: Normal(4:3)	4D (M)	6B 30 31 73 4D 30 30 31 0D	k01sM001<CR>
	Picture Size: AUTO	4D (M)	6B 30 31 73 4D 30 30 32 0D	k01sM002<CR>
	Picture Size: PANORAMA	4D (M)	6B 30 31 73 4D 30 30 33 0D	k01sM003<CR>
	Picture Size: Real	4D (M)	6B 30 31 73 4D 30 30 34 0D	k01sM004<CR>
	Picture Size: DOTBYDOT	4D (M)	6B 30 31 73 4D 30 30 35 0D	k01sM005<CR>

SERIAL COMMUNICATIONS

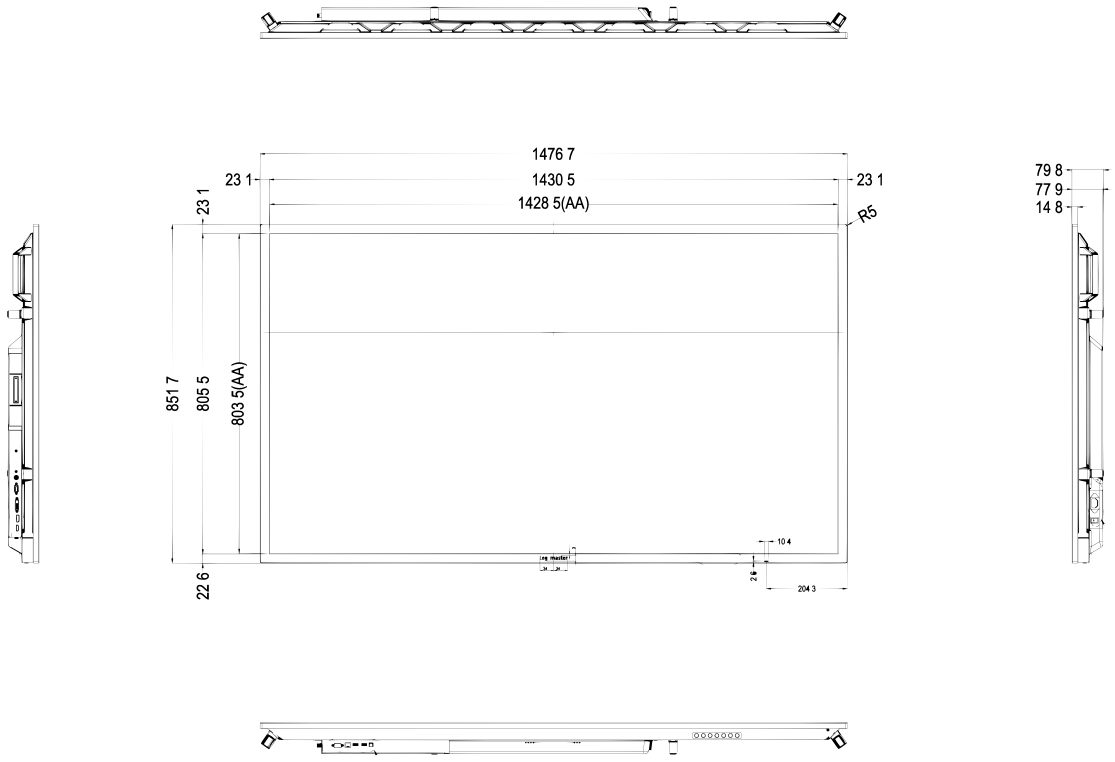
Control Item	Set Function	Command Code (HEX)	HEX (ID=1) C. ID Ty Cm #1 #2 #3 CR	ASCII Code ID=01
Remote Control Interface	Key Pad : UP	55 (U)	6B 30 31 73 55 30 30 30 0D	k01sU000<CR>
	Key Pad : DOWN	55 (U)	6B 30 31 73 55 30 30 31 0D	k01sU001<CR>
	Key Pad : LEFT	55 (U)	6B 30 31 73 55 30 30 32 0D	k01sU002<CR>
	Key Pad : RIGHT	55 (U)	6B 30 31 73 55 30 30 33 0D	k01sU003<CR>
	Key Pad : ENTER	55 (U)	6B 30 31 73 55 30 30 34 0D	k01sU004<CR>
	Key Pad : INPUT	55 (U)	6B 30 31 73 55 30 30 35 0D	k01sU005<CR>
	Key Pad : MENU	55 (U)	6B 30 31 73 55 30 30 36 0D	k01sU006<CR>
	Key Pad : EXIT	55 (U)	6B 30 31 73 55 30 30 37 0D	k01sU007<CR>
	Remote Control : DISABEL	56 (V)	6B 30 31 73 56 30 30 30 0D	k01sV000<CR>
	Remote Control : ENABLE	56 (V)	6B 30 31 73 56 30 30 31 0D	k01sV001<CR>
Date & Time Configuration	Date: Year	58 (X)	6B 30 31 73 58 59 xx xx 0D	k01sXYxx<CR>
	Date: Month	58 (X)	6B 30 31 73 58 4D xx xx 0D	k01sXMxx<CR>
	Date: Day	58 (X)	6B 30 31 73 58 44 xx xx 0D	k01sXDxx<CR>
	Time: Hour	59 (Y)	6B 30 31 73 59 48 xx xx 0D	k01sYHxx<CR>
	Time: Min	59 (Y)	6B 30 31 73 59 4D xx xx 0D	k01sYMxx<CR>
	Time: Sec	59 (Y)	6B 30 31 73 59 53 xx xx 0D	k01sYSxx<CR>
Others	Restore Default	5A (Z)	6B 30 31 73 5A 30 30 30 0D	k01sZ000<CR>
	OSD Language : English	4E (N)	6B 30 31 73 4E 30 30 30 0D	k01sN000<CR>
	Button Lock : Unlock	52 (R)	6B 30 31 73 52 30 30 30 0D	k01sR000<CR>
	Button Lock : Lock	52 (R)	6B 30 31 73 52 30 30 31 0D	k01sR001<CR>
	Menu Lock : Unlock	53 (S)	6B 30 31 73 53 30 30 30 0D	k01sS000<CR>
	Menu Lock : Lock	53 (S)	6B 30 31 73 53 30 30 31 0D	k01sS001<CR>

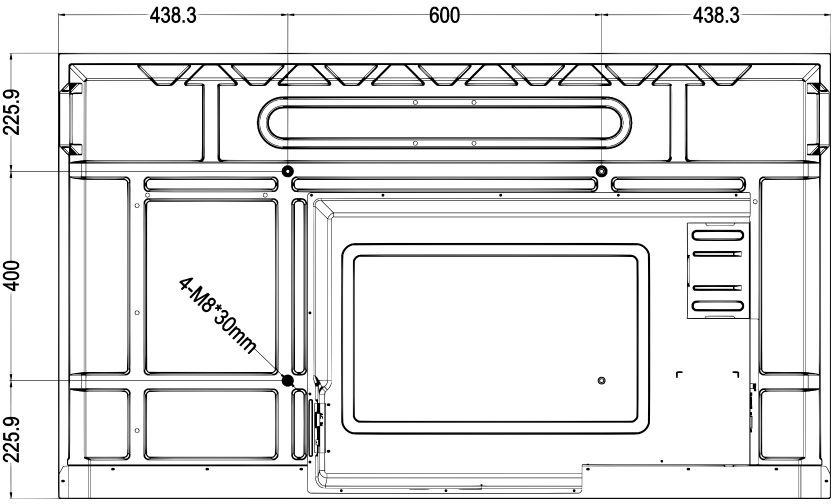
SERIAL COMMUNICATIONS

Set Function	Command Code (HEX)	HEX (ID=1) C. ID Ty Cm #1 #2 #3 CR	ASCII Code ID=01
Get-Contrast	61(a)	6B 30 31 67 61 30 30 30 0D	k01ga000<CR>
Get-Brightness	62(b)	6B 30 31 67 62 30 30 30 0D	k01gb000<CR>
Get-Sharpness	63(c)	6B 30 31 67 63 30 30 30 0D	k01gc000<CR>
Get-Saturation	64(d)	6B 30 31 67 64 30 30 30 0D	k01gd000<CR>
Get-Hue	65(e)	6B 30 31 67 65 30 30 30 0D	k01ge000<CR>
Get-Volume	66(f)	6B 30 31 67 66 30 30 30 0D	k01gf000<CR>
Get-Mute	67(g)	6B 30 31 67 67 30 30 30 0D	k01gg000<CR>
Get-Input select :	68(h)	6B 30 31 67 68 30 30 30 0D	k01gh000<CR>
Get-Power status: ON/ STBY	69(i)	6B 30 31 67 69 30 30 30 0D	k01gi000<CR>
Get-Remote Control :	6A(j)	6B 30 31 67 6A 30 30 30 0D	k01gj000<CR>
Get-Button Lock :	6C(l)	6B 30 31 67 6C 30 30 30 0D	k01gl000<CR>
Get-Menu Lock :	6D(m)	6B 30 31 67 6D 30 30 30 0D	k01gm000<CR>
Get-Date: Month	70(p)	6B 30 31 67 70 4D 30 30 0D	k01gpM00<CR>
Get-Date: Day	70(p)	6B 30 31 67 70 44 30 30 0D	k01gpD00<CR>
Get-Time: Hour	71(q)	6B 30 31 67 71 48 30 30 0D	k01gqH00<CR>
Get-Time: Min	71(q)	6B 30 31 67 71 4D 30 30 0D	k01gqM00<CR>
Get-Time: Sec	71(q)	6B 30 31 67 71 53 30 30 0D	k01gqS00<CR>
Get-Device name	72(r)	6B 30 31 67 72 30 30 30 0D	k01gr000<CR>
Get-MAC addr	73(s)	6B 30 31 67 73 30 30 30 0D	k01gs000<CR>
Get-RS232 versoin	74(t)	6B 30 31 67 74 30 30 30 0D	k01gt000<CR>

03 TECHNICAL DRAWINGS

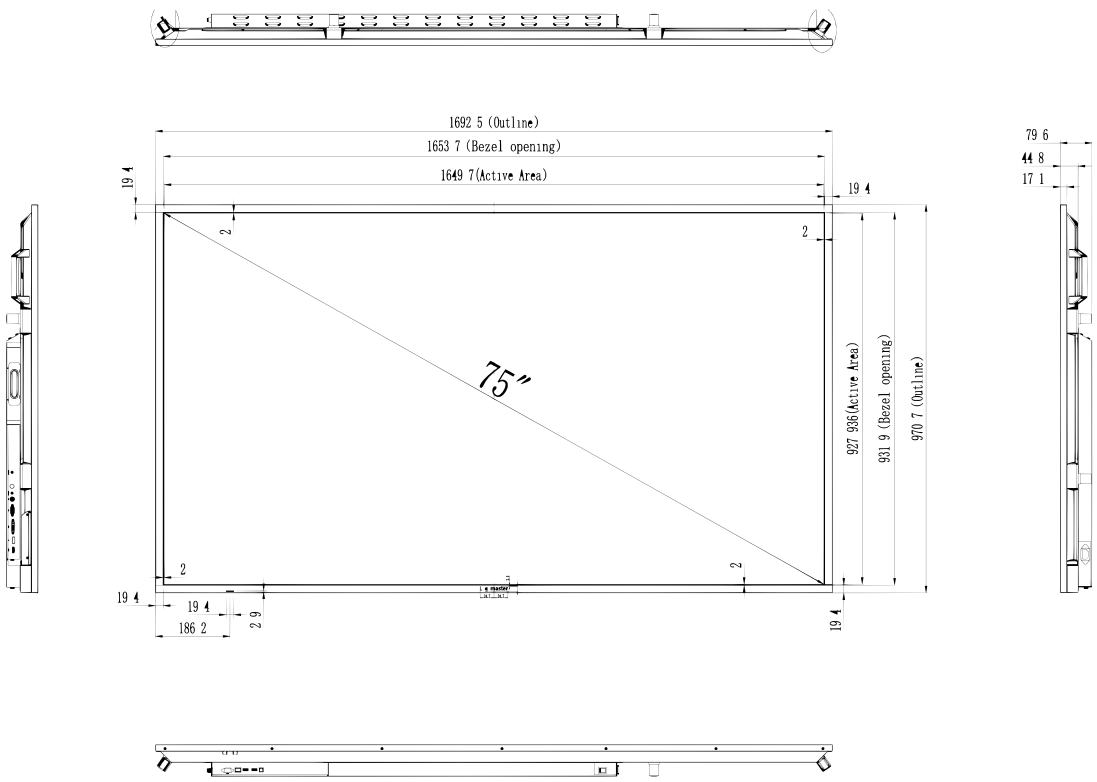
3.1 DIS-6500

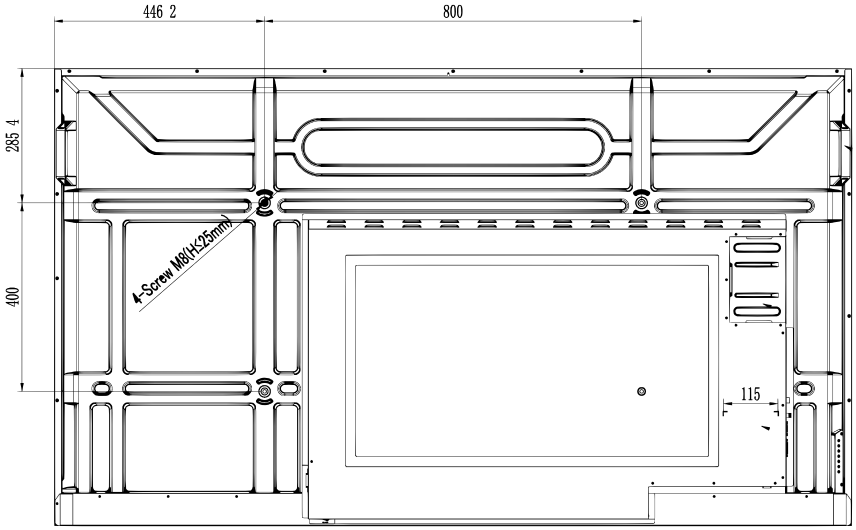




TECHNICAL DRAWINGS

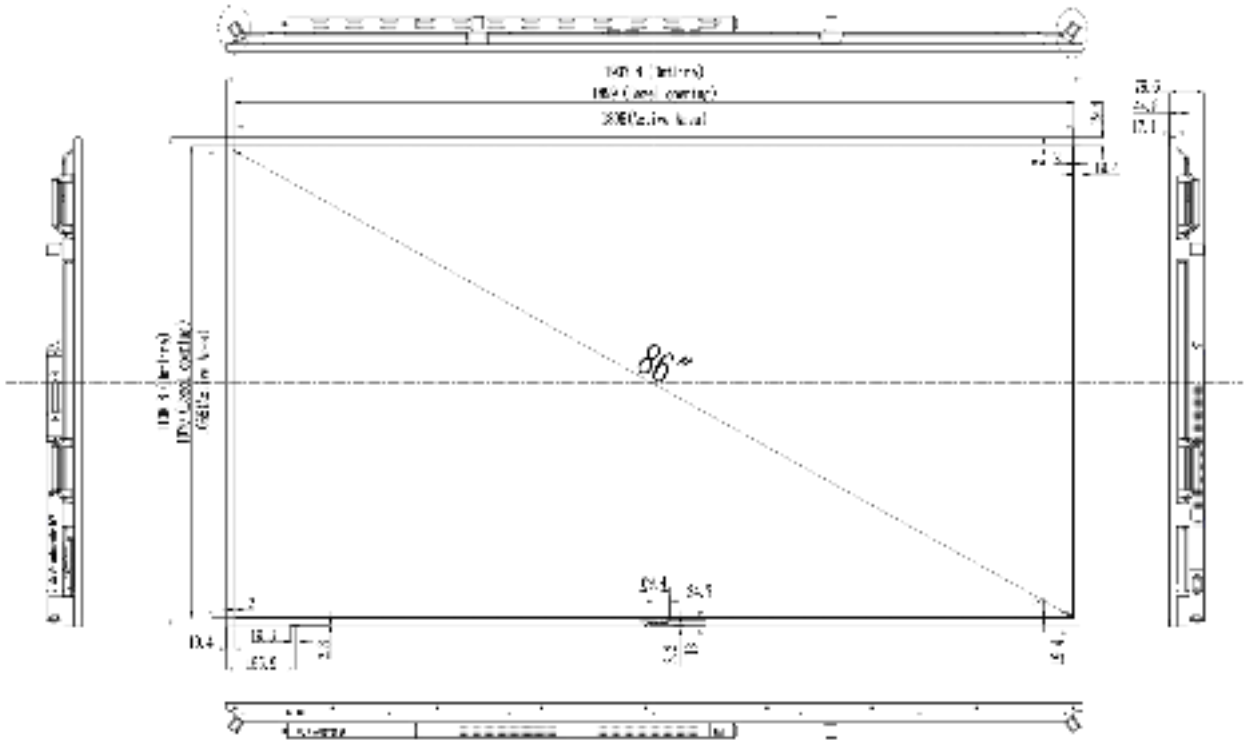
3.2 DIS-7500

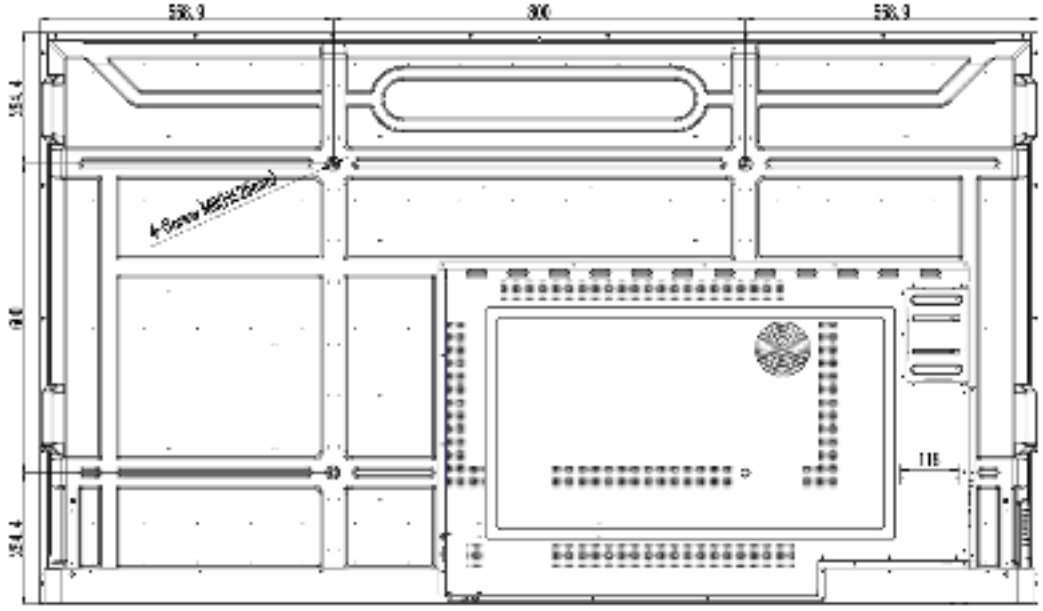




TECHNICAL DRAWINGS

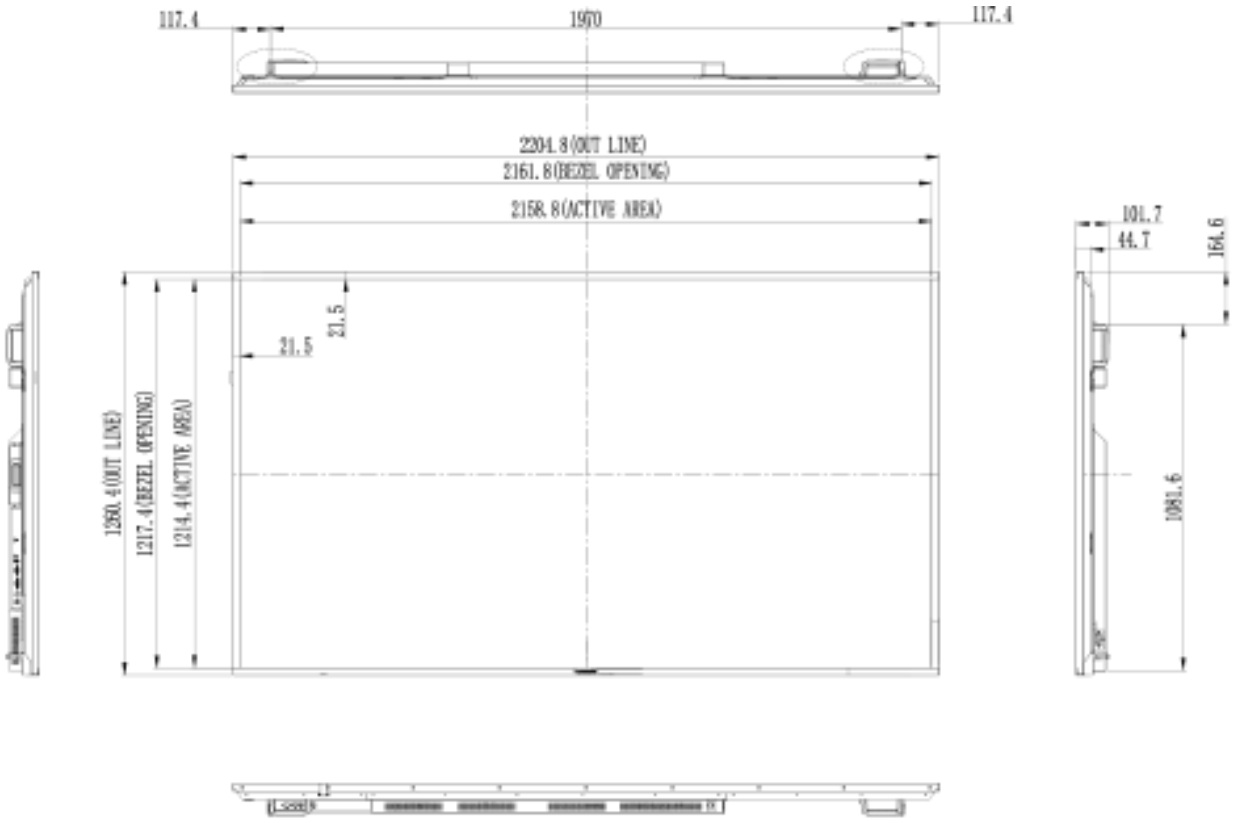
3.3 DIS-8600

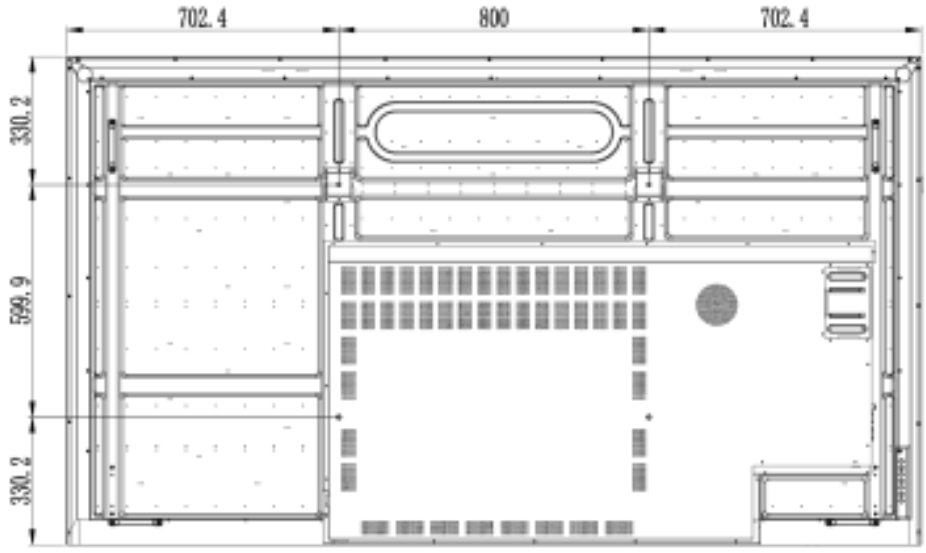




TECHNICAL DRAWINGS

3.4 DIS-9800





TECHNICAL DRAWINGS

3.5 PACKING

DIS-6500	
Product Dimentions	1476.7x851.7x79.8 (mm)
Packing Dimentions	1660x1045x245 (mm)
Net Weight	30 (kg)
Gross Weight	42 (kg)
DIS-7500	
Product Dimentions	1692.5x970,7x79.6 (mm)
Packing Dimentions	1880x1125x245 (mm)
Net Weight	40.5 (kg)
Gross Weight	52 (kg)
DIS-8600	
Product Dimentions	1937.8x1108.8x79.6 (mm)
Packing Dimentions	2125x1275x275 (mm)
Net Weight	57 (kg)
Gross Weight	77 (kg)
DIS-9800	
Product Dimentions	2204.9x1260,.4x101.7 (mm)
Packing Dimentions	2525x1750x435 (mm)
Net Weight	78.5 (kg)
Gross Weight	132 (kg)