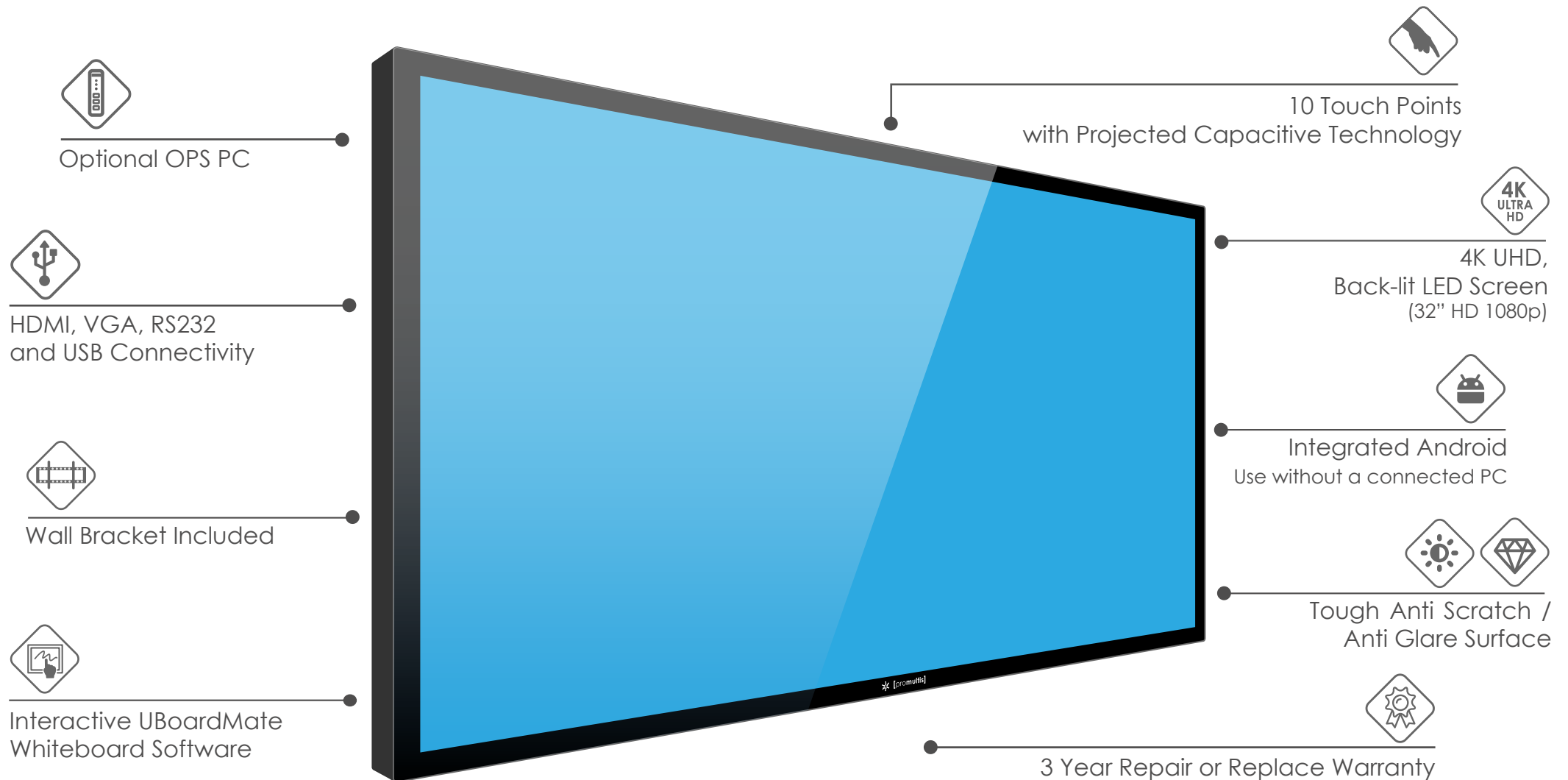# [pro**multis**]

Firebolt Touch Screen

Offering Full UHD 4K, the picture quality is excellent and the touch response is superb. The screen is perfect for Business, Education and Commercial use.

Optional OPS PC

HDMI, VGA, RS232
and USB Connectivity

Wall Bracket Included

Interactive UBoardMate
Whiteboard Software

10 Touch Points
with Projected Capacitive Technology

4K UHD,
Back-lit LED Screen
(32" HD 1080p)

Integrated Android
Use without a connected PC

Tough Anti Scratch /
Anti Glare Surface

3 Year Repair or Replace Warranty

Note: Product design specifications including dimensions are subject to change without notice and may vary from those shown.

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PANEL	PM-65PC62 ES	PM-75PC62 ES	PM-86PC62 ES
Screen Size	65" (64.53")	75" (74.52")	86" (85.6")
Panel Technology	TFT LCD	TFT LCD	TFT LCD
Display Resolution	3840 x 2160	3840 x 2160	3840 x 2160
Brightness (Typical)	350 cd / ^{2}	350 cd / ^{2}	350 cd / ^{2}
Contrast (Typical)	1200 : 1	1200 : 1	1200 : 1
Response Time (Grey To Grey)	9 ms	6 ms	8 ms
Frame Rate	60 Hz	60 Hz	60 Hz
Viewing Angle (H / V)	178° / 178°	178° / 178°	178° / 178°
Display Colors	1.07B (10-bit)	1.07B (10-bit)	1.07B (10-bit)
Backlight Type	Direct LED	Direct LED	Direct LED
Service Life	> 30,000 Hours	> 30,000 Hours	> 30,000 Hours
Installation	Landscape	Landscape	Landscape
Picture Mode	Dynamic / Standard / Soft / User / Game / Writing	Dynamic / Standard / Soft / User / Game / Writing	Dynamic / Standard / Soft / User / Game / Writing
TOUCH			
Detection Method	Projected Capacitive	Projected Capacitive	Projected Capacitive
Avaliable Touch Point	10 Points (Support Up to 4 Active Pens)	10 Points (Support Up to 4 Active Pens)	10 Points (Support Up to 4 Active Pens)
Response Time (Typical)	<= 10 ms	<= 10 ms	<= 10 ms
Minimum Response Size	>= Φ 5 mm	>= Φ 5 mm	>= Φ 5 mm
Touch Resolution	16384 x 16384	16384 x 16384	16384 x 16384
Communication Interface	USB / UART	USB / UART	USB / UART
CONNECTIVITY			
HDMI Input(s)	4 (Side / HDMI 2.0 Compatible* / Type A)	4 (Side / HDMI 2.0 Compatible * / Type A)	4 (Side / HDMI 2.0 Compatible * / Type A)
HDMI Output(s)	1 (Optional/Side/HDMI 2.0 Compatible*/Type A)	1 (Optional/Side/HDMI 2.0 Compatible*/Type A)	1 (Optional/Side/HDMI 2.0 Compatible*/Type A)
VGA Input(s) (with Mini Jack Audio Input)	1 (Side / DE-15F)	1 (Side / DE-15F)	1 (Side / DE-15F)
DisplayPort Input(s)	1 (Side, DisplayPort 1.2 Compliant)	1 (Side, DisplayPort 1.2 Compliant)	1 (Side, DisplayPort 1.2 Compliant)
Digital Audio Output(s)	1 (Bottom / Optical)	1 (Bottom / Optical)	1 (Bottom / Optical)
Audio / Headphone Output(s)	1 (Bottom / Mini Jack)	1 (Bottom / Mini Jack)	1 (Bottom / Mini Jack)al)
USB 3.0 Port(s)	-	-	-
USB 2.0 Port(s)	5 (2 Side, 2 Front, 1 Top / Type-A)	5 (2 Side, 2 Front, 1 Top / Type-A)	5 (2 Side, 2 Front, 1 Top / Type-A)
RS-232C Port(s)	1 (Bottom / DE-9F)	1 (Bottom / DE-9F)	1 (Bottom / DE-9F)
LAN Port(s)	1 (Bottom / RJ45 for 10 / 100 Base-T)	1 (Bottom / RJ45 for 10 / 100 Base-T)	1 (Bottom / RJ45 for 10 / 100 Base-T)
Wi-Fi Module	IEEE 802.11 a/b/g/n/ac	IEEE 802.11 a/b/g/n/ac	IEEE 802.11 a/b/g/n/ac
Touch Output(s)	2 (2 Bottom / USB Type-B)	2 (2 Bottom / USB Type-B)	2 (2 Bottom / USB Type-B)
Bluetooth Version	4.1	4.1	4.1

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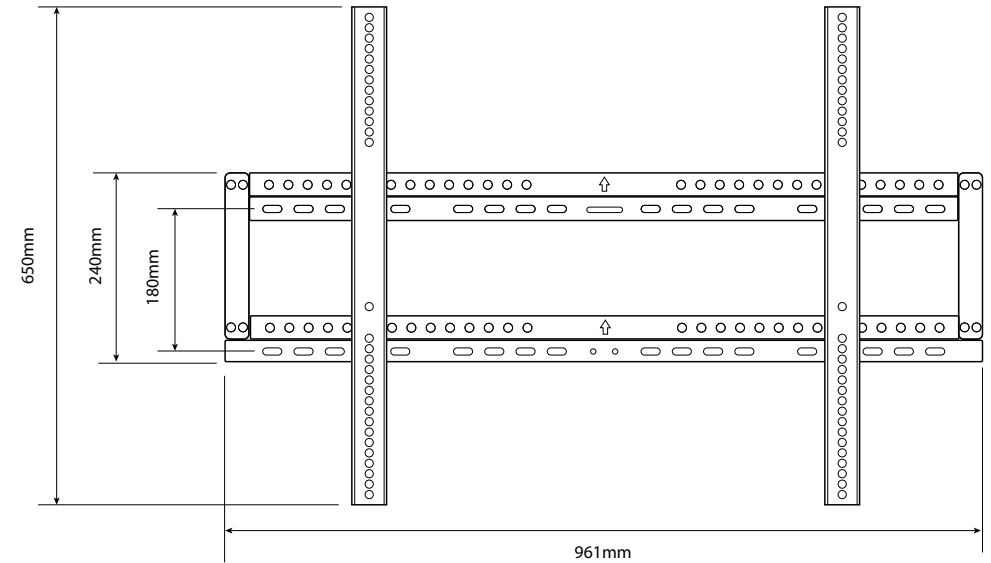| PANEL	PM-65PC62 ES	PM-75PC62 ES	PM-86PC62 ES
SOUND			
Audio Power Output (RMS)	15 W x 2 / 8 Ω + 15 W / 6 Ω	15 W x 2 / 8 Ω + 15 W / 6 Ω	15 W x 2 / 8 Ω + 15 W / 6 Ω
Subwoofer	YES	YES	YES
Speaker Position	Down Firing	Down Firing	Down Firing
Sound Mode	Standard / Music / Movie / Sports / User	Standard / Music / Movie / Sports / User	Standard / Music / Movie / Sports / User
SMART SYSTEM			
CPU	ARM Cortex A53 x 4	ARM Cortex A53 x 4	ARM Cortex A53 x 4
GPU	Mali-450 MP4	Mali-450 MP4	Mali-450 MP4
Operating System	Android 5.0.1	Android 5.0.1	Android 5.0.1
Memory	2 GB	2 GB	2 GB
On-board Storage	16 GB	16 GB	16 GB
OSD			
OSD Language Function	English	English	English
MECHANICAL			
Dimension of Product (W x H x D)	1526 x 902 x 95 mm	1747 x 1026 x 95 mm	1993 x 1165 x 95 mm
Dimension of Package Carton (W x H x D)	1665 x 1071 x 228 mm	1888 x 1190 x 228 mm	2128 x 1337 x 228 mm
VESA® Hole Pitch (W x H)	600 x 400 mm, M8 Screw	600 x 400 mm, M8 Screw	800 x 600 mm, M8 Screw
Front Glass	Tempered Glass (Anti-glare Type)	Tempered Glass (Anti-glare Type)	Tempered Glass (Anti-glare Type)
POWER			
Power Supply	AC 100-240 V 50 / 60 Hz	AC 100-240 V 50 / 60 Hz	AC 100-240 V 50 / 60 Hz
Power Consumption (in Operation)	170 W	290 W	370 W
Power Consumption (in Standby)	<= 0.5 W	<= 0.5 W	<= 0.5 W
ECO Sensor	YES	YES	YES
ENVIRONMENTAL			
Operation Temperature	0 - 40°	0 - 40°	0 - 40°
Storage Temperature	-20 - 60°	-20 - 60°	-20 - 60°
Operation Humidity	20 - 80 %RH (No Condensation)	20 - 80 %RH (No Condensation)	20 - 80 %RH (No Condensation)
Storage Humidity	10 - 90 %RH	10 - 90 %RH	10 - 90 %RH
SUPPLIED ACCESSORIES			
	AC Power Cable / Operating Instructions / Quick Start Guide / Writing Pen / Remote Control / VGA Cable / USB Cable / HDMI Cable / Guarantee Card		

* up to 3840 × 2160 @ 60 Hz

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Andriod OS

System Version	Android 5.01
CPU	ARM Cortex A53 1.5G
GPU	Mali450x4
RAM	2GB

PC Module (Optional)

Operating OS	Windows 10 / DOS
CPU	6th / 7th Generation Intel® Core™ Mobile Processor
Chipset	Integrated
Graphics	Integrated
Memory	4 GB up to 16 GB Dual Channel, DDR4L 2 x SO-DIMM
Storage	2.5" 500 GB up to 2 TB SATA Hard Drive 128 GB up to 256 GB M2.2242 SSD (Optional)
Wireless Data Network	802.11 a/b/g/n/ac, Bluetooth V4.0
LAN	10/100/1000 Mbps
Audio	High Definition 5.1 Channel Audio
I/O Ports	2 x USB 3.0 Type-A 2 x USB 2.0 Type-A 1 x HDMI (up to 4K @ 30 Hz) 1 x RJ45 LAN 2 x Audio Jack(s) (Line out / Mic in)
OPS Interface	HDMI (up to 4K @ 60 Hz)
Dimension	180 mm (L) x 119 mm (W) x 30 mm (H)
Weight	0.9 kg

Supplied Mounting Bracket

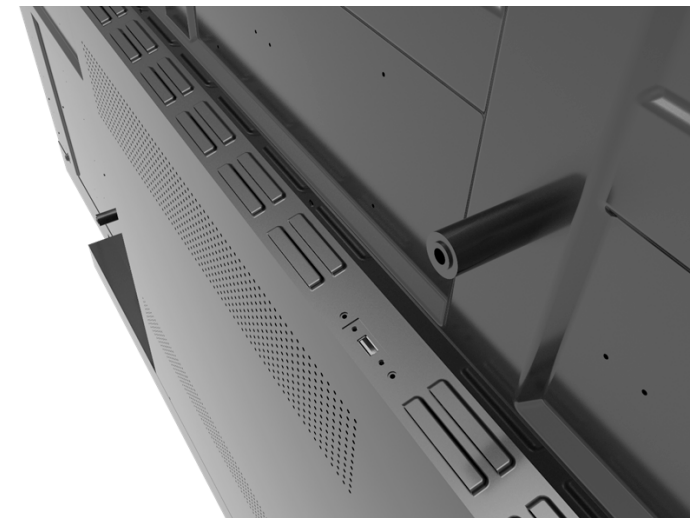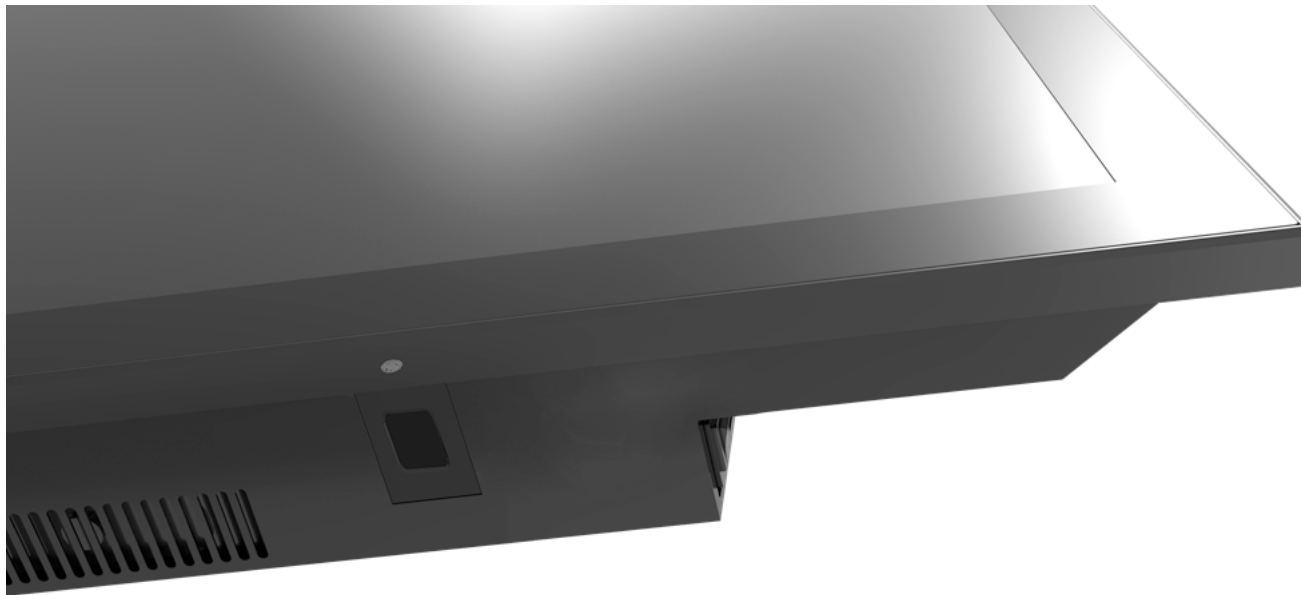| Width	Height	Depth	Weight
960 mm	240 mm	29.4 mm	8kg

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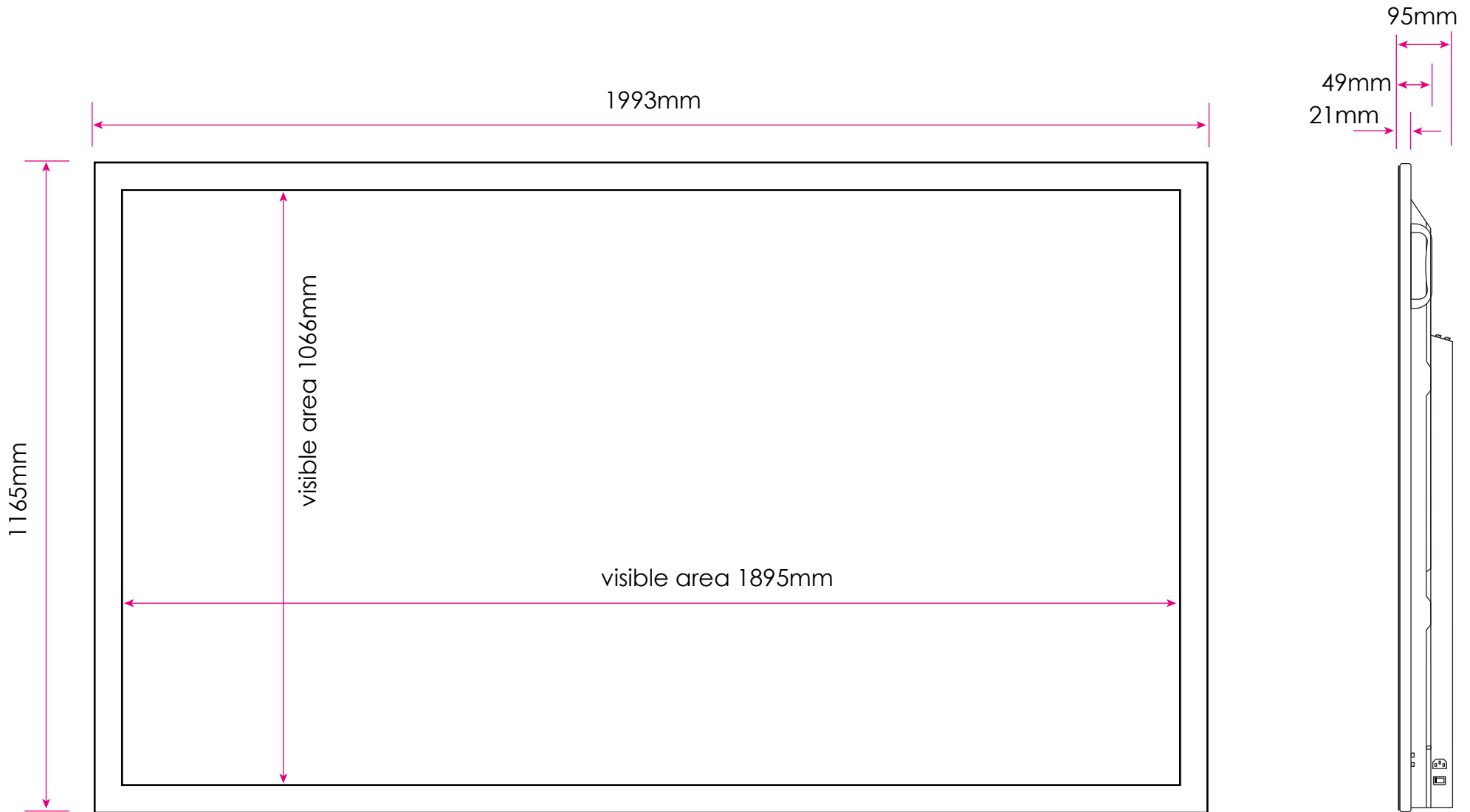
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Connectivity

USB

USB

USB

USB

USB

HDMI OUT

HDMI IN   1
           2
           3
           (ARC)

DP IN

VGA

PC IN

AUDIO
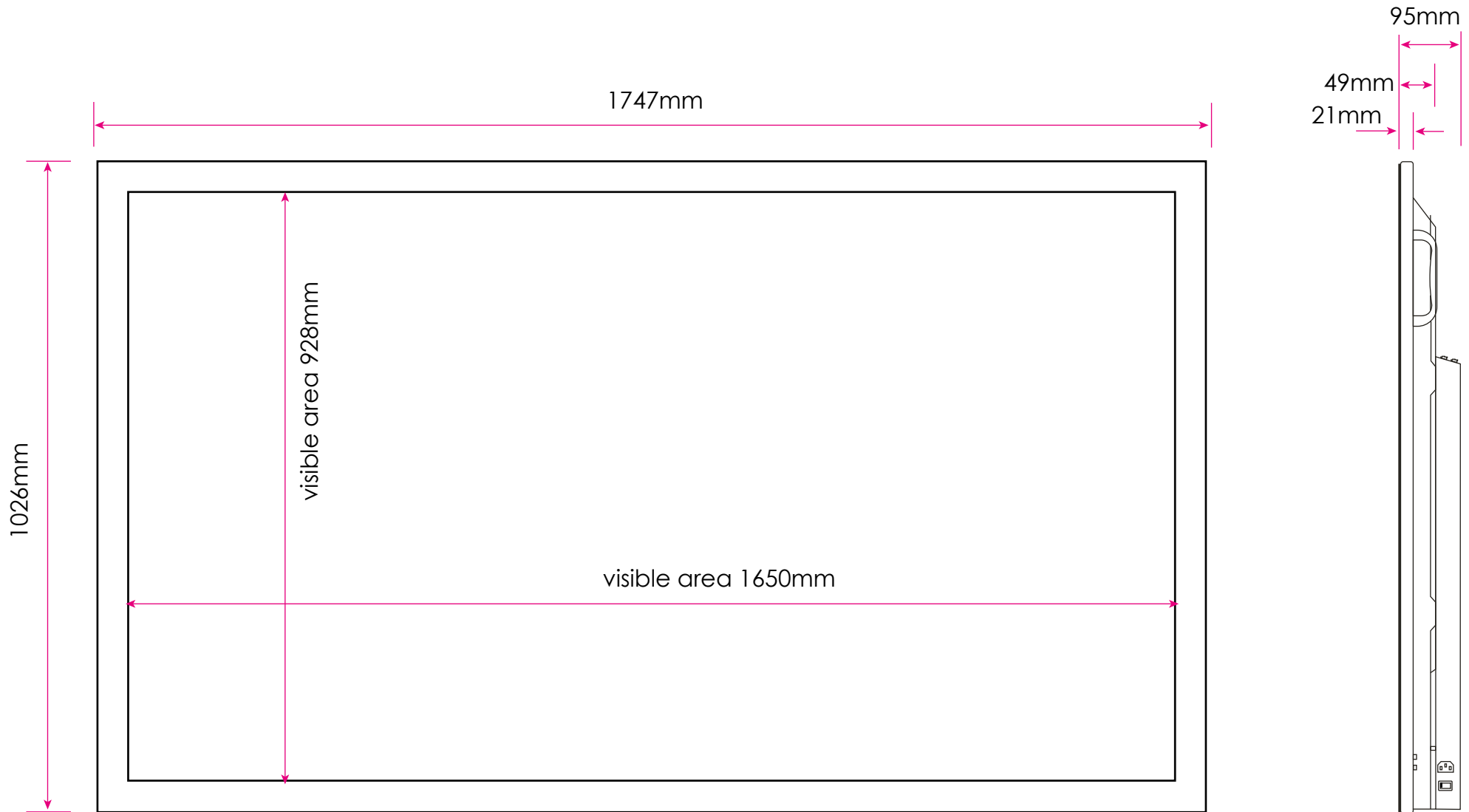
RS-232C   S/PDIF   TOUCH   TOUCH   LAN
                     OUT 1   OUT 2

Note: Product design specifications including dimensions are subject to change without notice and may vary from those shown.

USB2.0   PWR/USB2.0

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86" Firebolt Touch Screen Dimensions

95mm

49mm

21mm

1993mm

1165mm

visible area 1066mm

visible area 1895mm

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75" Firebolt Touch Screen Dimensions

95mm

49mm

21mm
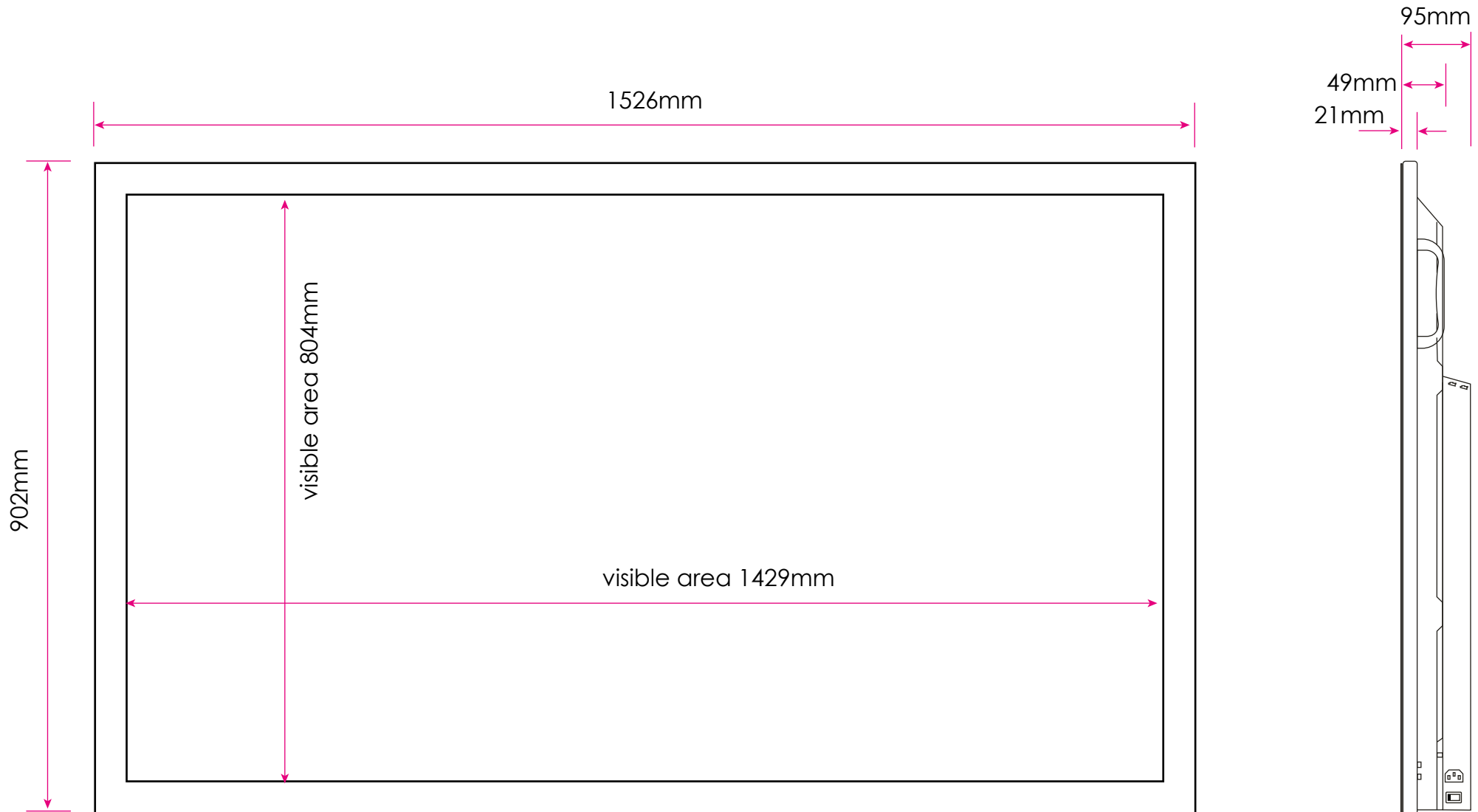
1747mm

visible area 928mm

1026mm

visible area 1650mm

Note: Product design specifications including dimensions are subject to change without notice and may vary from those shown.

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65" Firebolt Touch Screen Dimensions

1526mm

95mm

49mm

21mm

902mm

visible area 804mm

visible area 1429mm

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PANEL	
Screen Size	32"
Display area	751.4mm (H) x 447.6mm (V) 16:9
Maximum Resolution	1920 x 1080
Display color	16.7M
Brightness (cd /m²)	250 cd /m²
Contrast (Type)	3000 : 1
Visual angle	178°/178°
Response time	8ms
Life (hrs)	>50,000 (hrs)

TOUCH	
Specification	Projected Capacitive
Touch points	10

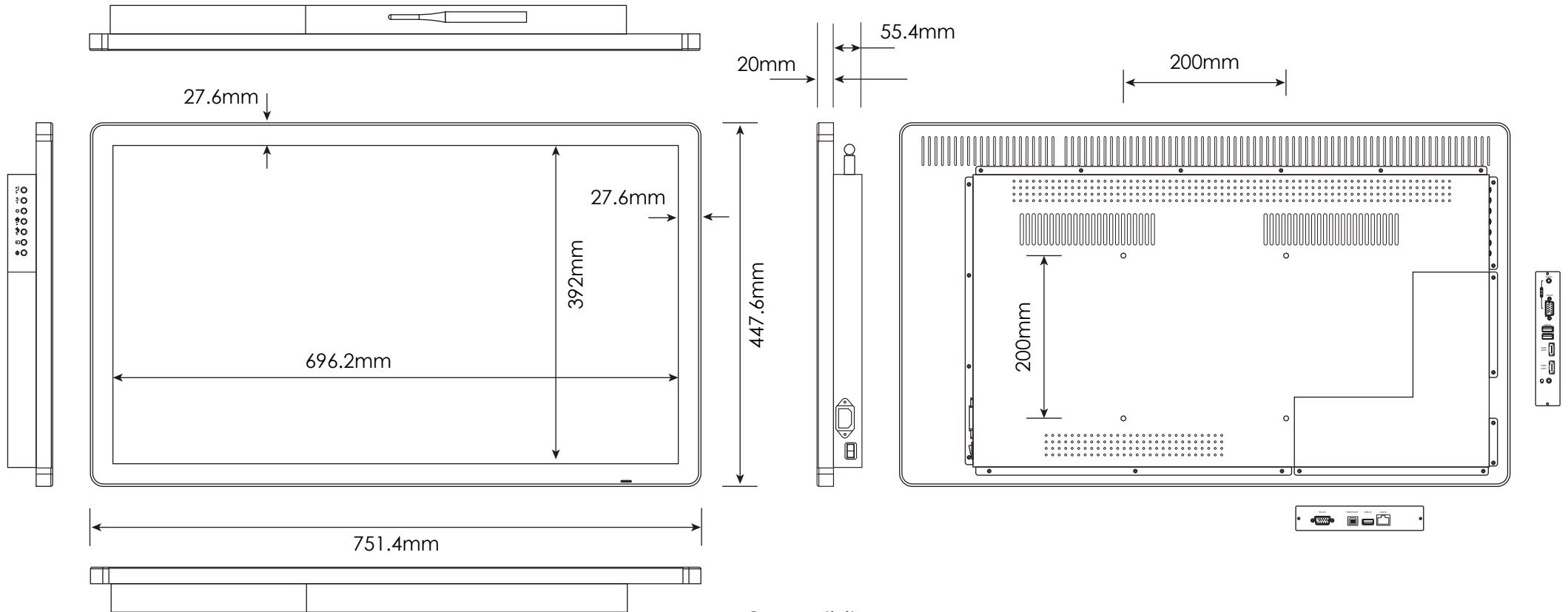| FEATURES	
Main chipset	MSD6A828, Quad core
RAM	2GB
ROM	16GB
Android Version	Android 5.0.1
LAN	Yes
Rotatable Screen	Yes, (0°, 90°)
Remote control	Yes
Speaker	2×5W(8Ω)
Video File Format supported	MPG, MOV, AVI, MKV, DAT, VOB, etc
Audio File Format supported	MP3, M4A, AAC, etc
Picture File Format supported	JPG, JPEG, BMP, etc

APPEARANCE	
Colour	Black
Material	Metal & Aluminium
Size	751.4mm x 447.6mm x 75.4mm

CONNECTIVITY	
HDMI	2
USB 3 (Type A)	2
USB 2 (Type A)	1
RGB PC in	1
LAN (RJ45)	1
RS232	1
Earphone out	1

POWER	
Power supply	AC100 ~ 240V 50 /60 HZ
Power rating	<80W
Standby power consumption	<1W

TEMPERATURE	
Working temperature	0°C ~ 50°C
Storage temperature	-20°C ~ 60°C
Working humidity	10% ~ 90%

WARRANTY	
3 year on-site warranty as standard	
Extended warranties and SLA's available at an additional cost	

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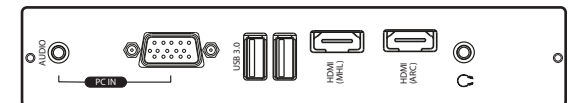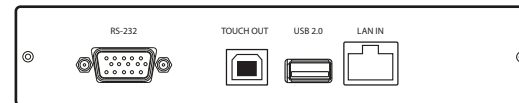
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55.4mm

20mm

200mm

27.6mm

27.6mm

392mm

447.6mm

696.2mm

200mm

751.4mm

Connectivity

RS-232   TOUCH OUT   USB 2.0   LAN IN

AUDIO   PC IN   USB 3.0   HDMI (MHL)   HDMI (ARC)

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