

■ **Product specification** (design and specification subject to change without notice)

▲ **DISPLAY PANEL**

Screen Size (Diagonal)	55-inch (1388 mm)
Panel type / Backlight	IPS / Direct-LED
Aspect ratio	16:9
Effective Display Area (W x H)	1209.6 x 680.4 mm
Number of pixels (H x V)	3840 x 2160
Pixel Pitch	0.3150 mm
Brightness (typ)	500 cd/m <sup>2</sup>
Contrast Ratio (typ)	1200:1
Dynamic Contrast Ratio	50000:1
Max. Display Colors	Colors Approx. 1.07 Billion
Color Gamut (NTSC)	72 %
Response Time (typ)	8.0 ms (G to G)
Viewing Angle (Horizontal / Vertical)	178° / 178° (CR≥10)
Panel Life Time*1 (typ)	Approx. 50000 hours
Panel Surface Treatment	Anti glare type (Haze 1%)

\*1 When the panel lifetime is at 50% of the brightness under the condition of 25 degrees Celsius (+/- 2 degrees Celsius).

▲ **CONNECTION TERMINAL**

HDMI IN*	HDMI Type A Connector x 2 (Compatible with HDCP2.2)	AUDIO: Linear PCM (Sampling frequency : 48 kHz/44.1 kHz/32 kHz)
DisplayPort IN*	DisplayPort x 1 (Compatible with HDCP2.2)	AUDIO: Linear PCM (Sampling frequency : 48 kHz/44.1 kHz/32 kHz)
DVI-D IN*	DVI-D 24-pin x 1	Compliance with DVI Revision 1.0 Compatible with HDCP 1.1
DVI-D OUT*	DVI-D 24-pin x 1	Compliance with DVI Revision 1.0 Compatible with HDCP 1.1
SDI IN*	BNC x 1	3G/HD/SD
SDI OUT*	BNC x 1	3G/HD/SD
PC IN *	Mini D-Sub 15-pin (DDC2B) x 1	Y/G : with sync 1.0 V [p-p] (75 Ω) : without sync 0.7 V [p-p] (75 Ω) PB/CB/B : without sync 0.7 V [p-p] (75 Ω) PR/CR/R : without sync 0.7 V [p-p] (75 Ω) HD/VD : HD/VD TTL (high impedance)
SERIAL IN / OUT	RJ45 x 1 / x 1, RS-232C Compatible (Shared with IR IN / OUT)	
IR IN / OUT	RJ45 x 1 / x 1 (Shared with SERIAL IN / OUT)	
AUDIO IN*	Stereo Mini Jack (M3) x 1	0.5 V [rms]
AUDIO OUT*	Stereo Mini Jack (M3) x 1 Variable (-∞ - 0 dB) (1 kHz 0 dB Input, 10 kΩ Load)	0.5 V [rms]
LAN	RJ45 x 1 RJ45 10BASE-T/100BASE-TX	
USB*	USB Connector (Type A) x 1, DC 5 V/0.5A (USB 2.0 is supported)	
OPS*	Intel® Open Pluggable Specification Supply power 19 V DC / , 5 A	

\*Supported input signal varies depending on source signal strength, reduce input signal frame rate or resolution may improve performance under such circumstance.

▲ **AUDIO**

Built in Speaker	20 W [10 W +10 W]
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▲ **ELECTRICAL**

Power Requirements	100-240 V AC , 50 Hz / 60 Hz
Power Consumption	139 W
On Mode Average Power Consumption*	120 W
Stand-by Condition Approx.	0.5 W

\*Based on IEC 62087 Ed.2 measurement method

▲ **MECHANICAL**

Dimension (W x H x D)	1243.2 x 714 x 74.8 mm
Weight	18.4 kg
Bezel Color	Black
Bezel Width	T/B/L/R 13.9 mm
Carton Dimensions (W x H x D)	1364 x 824 x 154 mm
Gross Weight	22 kg
Cabinet Color / Material	Black / Front: Metal Back: Metal
Pitch for Wall-Hanging	VESA Compliant W400 x H400 mm (Installed by: M6 screws / Screw hole depth 16 mm)
Fan	Nothing

▲ **INSTALLATION**

Orientation	Landscape / Portrait
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■ List of correspondence signals

H : HDMI DP : DisplayPort D : DVI-D R : D-sub RGB O : OPS

The picture signal which can indicate this machine is as it is the following table.

▲ Video input

Correspondence signal	Resolution (dot)	Scan rate		Dot clock rate (MHz)	Input format
		Horizontal(kHz)	Vertical(Hz)		
525(480)/60i	720 x 480	15.73	59.94	13.50	R
625(576)/60i	720 x 576	15.63	50.00	13.50	R
525(480)/60p	720 x 483	31.63	59.94	27.00	H/DP/D/R/O
625(576)/60p	720 x 576	31.25	50.00	27.00	H/DP/D/R/O
720/60p	1280 x 720	45.00	60.00	74.25	H/DP/D/R/O
1080/60i	1920 x 1080	33.75	60.00	74.25	H/DP/D/R/O
1080/24p	1920 x 1080	27.00	24.00	74.25	H/DP/D/R/O
1080/30p	1920 x 1080	33.75	30.00	74.25	H/DP/D/R/O
1080/50p	1920 x 1080	56.25	50.00	148.50	H/DP/D/R/O
1080/60p	1920 x 1080	67.25	60.00	148.50	H/DP/D/R/O
2160/24p	3840 x 2160	54.00	24.00	297.00	H/DP/D/O
2160/25p	3840 x 2160	56.25	25.00	297.00	H/DP/D/O
2160/30p	3840 x 2160	67.5	30.00	297.00	H/DP/D/O
2160/50p	3840 x 2160	112.50	50.00	594.00	H/DP/D/O
2160/60p	3840 x 2160	135.00	60.00	594.00	H/DP/D/O
VGA	640 x 480	31.5	59.9	25.2	H/DP/D/R/O
		35.0	66.7	30.2	H/DP/D/R/O
		37.9	72.8	31.5	H/DP/D/R/O
		37.5	75.0	31.5	H/DP/D/R/O
		43.3	85.0	36.0	H/DP/D/R/O
SVGA	800 x 600	35.2	56.3	36.0	H/DP/D/R/O
		37.9	60.3	40.0	H/DP/D/R/O
		48.1	72.2	50.0	H/DP/D/R/O
		46.9	75.0	49.5	H/DP/D/R/O
		53.7	85.1	56.3	H/DP/D/R/O
XGA	1024 x 768	39.6	50.0	51.9	H/DP/D/O
		48.4	60.0	65.0	H/DP/D/R/O
		56.5	70.1	75.0	H/DP/D/R/O
		60.0	75.0	78.8	H/DP/D/R/O
		65.5	81.6	86.0	H/DP/D/R/O
		68.7	85.0	94.5	H/DP/D/R/O
1360 x 768	1360 x 768	47.7	60.0	85.5	H/DP/D/O
		47.7	60.0	84.7	H/DP/D/O
		47.7	59.8	84.8	H/DP/D/O
1920 x 1080	1920 x 1080	66.6	59.8	138.5	H/DP/D/R/O
	1920 x 1080	67.5	60.0	148.5	H/DP/D/R/O

▲ SDI input

System	Frame Rate & Structure	Pixel Structure		Signal Standard	Parallel Interface	Serial Interface	Line No.	
1125	60/p	1920 x 1080	4:2:2	ST 274 + RP211		ST 292	7	
	50/p			ST 274 + RP211				
	60/i			ST 274 + RP211			7/ 569	
	50/i			ST 274 + RP211				
	30/p			ST 274 + RP211				
	25/p			ST 274 + RP211				
	24/p			ST 274 + RP211				
	30/PsF			ST 274 + RP211				
	25/PsF			ST 274 + RP211				
	24/PsF			ST 274 + RP211				
750	60/p	1280 x 720	4:2:2	ST 296		ST 292	7	
	50/p			ST 296				
	30/p			ST 296				
	25/p			ST 296				
	24/p			ST 296				
625	50/p	720 x 576	4:2:2	BT.1358	ST 349	ST 292	6	
				BT.1358	ST 347	ST 344		
				BT.1358	BT.1358	BT.1362		
	50/i		960 x 576	4:2:0	BT.1358	ST 349	ST 292	6/319
					BT.1358	BT.1358	BT.1362	
					BT.601	ST 349	ST 292	
625	50/i	720 x 576	4:4:4	BT.601	BT.656	ST 259	6/319	
				BT.799	ST 349	ST 292		
				BT.799	ST 347	ST 344		
			BT.799	BT.799	ST 344			
			BT.799	BT.799	-			
			BT.601	ST 349	ST 292			
BT.601	ST 125	ST 259						

525	59.94/p	720 x 483	4:2:2	ST 293	ST 349	ST 292	10	
				ST 293	ST 347	ST 344		
			ST 293	ST 293	ST 294			
			4:2:0	ST 293	ST 349	ST 292		
	59.94/i	960 x 483	720 x 483	4:2:2	ST 293	ST 293		ST 294
					ST 267	ST 349		ST 292
				4:4:4	ST 267	ST 267		ST 259
					ST 267	ST 349		ST 292
					ST 267	ST 347		ST 344
					ST 267	RP 174		ST 344
4:2:2	ST 267	RP 175	RP 175					
	ST 125	ST 349	ST 292					
HD-SDTI	Porpsf Structure	1920 x 1080	4:2:2	ST 274	ST 274+ST 348	ST 292	7	
	I Structure			ST 274			7/569	
	P Structure			1280 x 720	ST 296		ST 296+ST 348	7
SDTI	50/i	720 x 576	4:2:2	BT.656	BT.656+ST 305	ST 259	6/319	
	59.94/i	720 x 483		ST 125	ST 125+ST 305		10/273	

▲ USB input

Video Codec	Resolution	Bit Rate	Profile	Container
H.264	1920×1080@30fps	40Mbps	Main and high profile up to level 5.2	3GPP(.3gpp,.3pg) ASF(.asf) AVI(.avi) FLV(.flv) MP4(.mov,.mp4) MKV(.mkv) MPEG transport stream(.tp,.trp,.ts) WMV(.wmv)
MPEG2	1920×1080@30fps	40Mbps	MP@HL	3GPP(.3gpp,.3gp) ASF(.asf) AVI(.avi) MP4(.mov,.mp4) MKV(.mkv) MPEG program stream(.dat,.mpeg,.mpg,.vob) MPEG transport stream(.tp,.trp,.ts)
MPEG4	1920×1080@30fps	40Mbps	.Simple Profile .Advanced Simple Profile@Level 5 .GMC is not supported	3GPP(.3gpp,.3gp) ASF(.asf) AVI(.avi) MP4(.mov,.mp4) MKV(.mkv) MPEG program stream(.mpeg,.mpg)

Audio Codec	Sample rate	Channel	Bit Rate	Container
FLAC	8kHz-96kHz	Up to 7.1	< 1.6Mbps	Matroska(.mkv)
LPCM	8kHz-48kHz	Mono, Stereo, 5.1	64Kbps-1.5Mbps	3GPP(.3gpp,.3gp) AVI(.avi) Matroska(.mkv) MP4(.mov,.mp4) MPEG program stream(.dat,.mpeg,.mpg,.vob) MPEG transport stream(.tp,.trp,.ts)
MPEG1/2 Layer1	16kHz-48kHz	Up to 2	32Kbps-448Kbps	ASF(.asf) AVI(.avi) Matroska(.mkv) MPEG program stream(.dat,.mpeg,.mpg,.vob) MPEG transport stream(.tp,.trp,.ts)
MPEG1/2 Layer2	16kHz-48kHz	Up to 2	8Kbps-448Kbps	
MPEG1/2 Layer3	8kHz-48kHz	Up to 2	8Kbps-320Kbps	
VORBIS	Up to 48kHz	Up to 2	32Kbps-448Kbps	3GPP(.3gpp) Matroska (.mkv) MP4(.mov,.mp4)

Image	Photo	Resolution	Remark
BMP	-	15360 x 8640	The limitation of max Resolution depends on DRAM size (up to 15360 x 8640)
JPEG	Base-line	1920 x 1080	The limitation of max Resolution depends on DRAM size (up to 15360 x 8640)
	Progressive	1024 x 768	The limitation of max Resolution depends on DRAM size (up to 7000 x 7000)
PNG	Non-interlace	1920 x 1080	The limitation of max Resolution depends on DRAM size (up to 15360 x 8640)
	interlace	1920 x 1080	The limitation of max Resolution depends on DRAM size (up to 15360 x 8640)

\* Resolution is a kind of reference design,instead of hardware limitation.Because it is bounded by DRAM size and performance

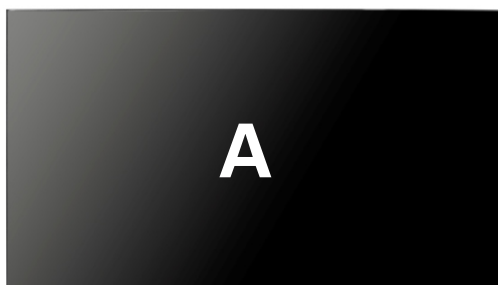
\* The larger resolution,the bigger DRAM size

\* The larger resolution,the less performance,since it requires longer time to show a picture

\*Whether to adopt JPEG/PNG hardware decoder can be set.The max resolution of JPEG Hardware decoder is 16360 x 16360

\* BMP decoder is a software decoder.The limitation of maximum resolution depends on DRAM size

■ Orientation



Landscape



Portrait(Clock wise)