

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

▲ **DISPLAY PANEL**

Screen Size (Diagonal)	55-inch class (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)	1920 x 1080
Pixel Pitch	0.63 mm
Brightness (typ)	500 cd/m <sup>2</sup>
Contrast Ratio (typ)	1000:1
Dynamic Contrast Ratio	500000:1
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*(min)	Approx. 100,000 hours
Panel Surface Treatment	Anti glare low reflection type (Haze 28%)

\*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
PC IN	Mini D-Sub 15-pin (DDC2B) x 1	Y/G : with sync 1.0 V [p-p] (75 Ω) Y/G : 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)	

▲ **ELECTRICAL**

Power Requirements	100-240 V AC , 50 Hz / 60 Hz
Power Consumption	165 W
On Mode Average Power Consumption*	147 W
Stand-by Condition Approx.	0.5 W

\*Based on IEC 62087 Ed.2 measurement method

▲ **MECHANICAL**

Dimension (W x H x D)	1212.2 x 683.0 x 97.5 mm
Weight	27 kg
Bezel Color	Black
Bezel Width	T/B/L/R 1.3/0.44/1.3/0.44 mm
Carton Dimensions (W x H x D)	1415 x 895 x 300 mm
Gross Weight	38.5 kg
Cabinet Color / Material	Black / Metal
Pitch for Wall-Hanging	VESA Compliant W600 x H400 mm (Installed by: M6 screws / Screw hole depth 45 mm)
Fan	Nothing

▲ **INSTALLATION**

Orientation	Landscape / Portrait(Clock wise)
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\*Please contact your sales representative with regard to the tilt angle before installation.

\*When installing the Display vertically, be sure that the Power Indicator comes to the lower side.

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## ▲ ENVIRONMENTAL

Operating Environment	Temperature	: 0°C to 40°C <sup>*1</sup>
	Humidity	: 20% to 85% (No condensation)
Storage Environment	Temperature	: -10°C to 60°C
	Humidity	: 10% to 90% (No condensation)

\*1 : for up to 5000 m altitude

- Depending on the temperature or humidity conditions, uneven brightness may be observed. This is not a malfunction.
- This unevenness will disappear while applying current continuously. If not, consult the distributor.

## ■ MAIN FEATURE

USB Media Player	Yes
Failover	Yes
Temperature Control	Yes
Auto setting	Yes
Screen Saver	Yes
Power Management	Yes
Power save	Yes
Dynamic backlight control	Yes
Multi display settings	Yes(H x V, up to 10 x10)
Daisy Chain	Yes(DVI MAX 9 units <sup>*1</sup> )
Set up timer	Yes
Image settings	Yes
Input Detection	Yes
Color Calibration	Done
Operating Time <sup>*2</sup> 24h / day	Yes

\*1 HDCP can be supported for up to 8 displays.

\*2 In case of running for a long time, the moving image is recommended to be displayed. If you display a still picture for an extended period, the image retention might remain on the screen.

However, image retention can gradually disappear by displaying a moving images.

## ■ REMOTE CONTROL TRANSMITTER

Power Requirements	DC 3 V (2 x AAA Size batteries)
Operating distance	Approx. 7 m <sup>*</sup>
Weight	Approx. 63 g including batteries
Dimensions (W x H x D)	44 x 105 x 21 mm

\*When operated directly in front of receptor.

## ■ STANDARD (CERTIFICATIONS)

SAFETY REGULATIONS	GB4943.1-2011
RADIATION REGULATIONS	GB9254-2008 / GB17625.1-2012
ENERGY CONSERVATION REGULATIONS	GB21520-2015 (Class 1)

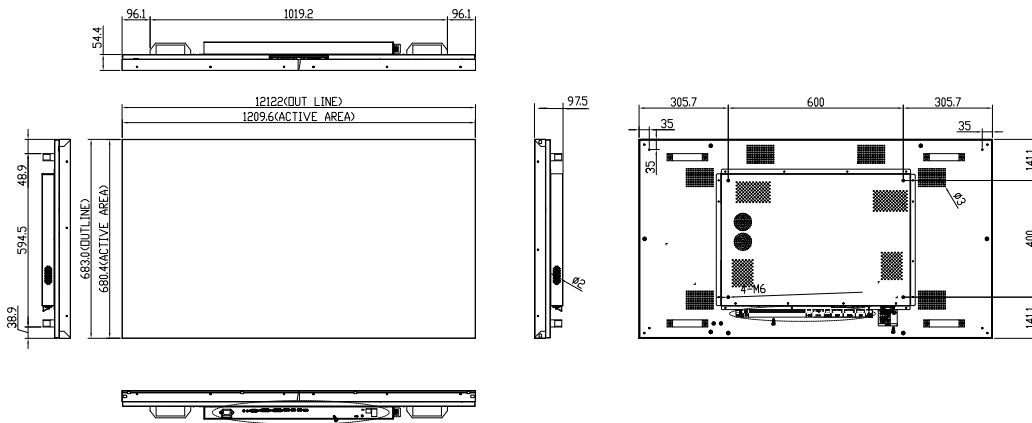
## ■ INCLUDED ACCESSORIES

AC cord	Yes
Remote Control	Yes
Batteries (AAA size) x 2	Yes
External IR Receiver	Yes
LAN Cable (CAT5e)	Yes
RS232 Converters	Yes
Operating instruction book	Yes

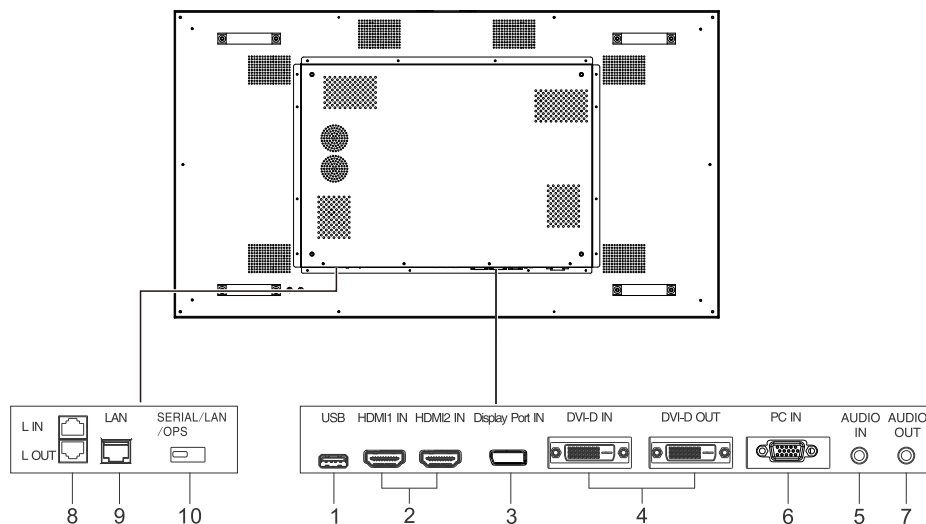
## ■ DIMENSIONS

Cautious: This drawing is not a scale

Units : mm



## ■ CONNECTION TERMINAL



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## ■ List of correspondence signals

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

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

### ▲ 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 max resolution depends on DRAM size

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## ■ Orientation



Landscape



Portrait(Clock wise)