



LCD Display Monitor

**LM55P3**

**Product Specifications**

Mitsubishi Electric Corporation  
Kyoto Works

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## LM55P3 Specifications

### 1. Product outline

This model is an eXNB (extremely-narrow bezel) LCD display for display wall applications.

### 2. Image panel

LCD Type	TFT LCD (IPS panel)		
Resolution	Full HD (1920 x 1080 pixels)		
Screen size	55" diagonal		
Surface treatment	Anti-glare (haze 44 %), Hard coating (3H)		
Pixel pitch	0.63 (H) x 0.63 (V) mm		
Backlight	Type	LED (Direct)	
	Lifetime	60,000 hours (typ.) * <sup>1</sup>	
Mullion size	1.8 mm (Bezel to Bezel, min.) * <sup>2</sup>		
Display colors	1.07 Billion (10-bit)		
Response time (G-to-G)	8 ms (typ.)		
Screen brightness (at 25°C)	High bright	700 cd/m <sup>2</sup> (typ.)	
	Standard	500 cd/m <sup>2</sup> (typ.)	
Contrast ratio	1200:1 (typ.)		
Viewing angle	Horizontal	178°	
	Vertical	178°	

### 3. Electric specification

Power consumption / Thermal dissipation (typ.) at 25 °C, without OPS		Power consumption		Thermal dissipation	
		High bright	250 W	215.0 kcal/h	(853 BTU/h)
Standard	180 W	154.8 kcal/h	(614 BTU/h)		
Stand-by	0.5 W in low power mode	--			
Voltage range	AC 100 – 240 V ±10 %, 50/60 Hz ±1 Hz				
Operating current (100/240 V)	3.0/1.5 Amp.				
Inrush current (100/240 V)	23/47 Amp.				
Image signal terminals	Input	DisplayPort™ (1.2a) x1 DVI-D (with HDCP) x1 D-Sub 15 x1 (YPbPr supported)			
	Output	DisplayPort™ (1.2a) x1			
Input frequencies Refer to "Available input signal lists" for details.	Resolution	640 x 480 – 4096 x 2160 pixels			
	Horizontal	15.6 – 135.0 kHz			
	Vertical	24.0 – 85.1 Hz			
	Pixel clock	25.2 – 594.0 MHz			

(Continued)

Control signals	LAN: RJ45 (10BASE-T/100BASE-TX) RS-232C: 2.5 mm phone jack Wired remote: 3.5 mm phone jack IR receiver
Communication between the monitors	RS-232C: 2.5 mm phone jack (input, output) Wired remote: 3.5 mm phone jack (input, output)
Optional input board slot	Intel® OPS slot x1
Audio terminals	3.5 mm phone jack (input, output) SPDIF (optical digital audio output)
Major functions	Daisy-chainable DisplayPort™ (1.2a) Up to 4 units: DisplayPort™ SST signal *3 supported One of any input signals including OPS can be looped out. Scaling function: up to 15x15 Screen saver Reverse scan mode

#### 4. Mechanical specification

		Product	Packing
Dimensions	Width	1211.9 mm / 47.7"	1480 mm / 58.3"
	Height	682.7 mm / 26.9"	988 mm / 38.9"
	Depth	99.0 mm / 3.9" (excluding handles)	380 mm / 15.0"
Weight		25 kg / 55.1 lbs	39 kg / 86.0 lbs
Maximum stack height	Landscape	6 units*4	
	Portrait	3 units	
available tilt angle		0° to 10° downward (both landscape and portrait orientations)	
Audio noise		29 dBA (typ.) (at 3 m distance from the screen center)	
Accessories		DisplayPort™ cable (1.8 m) RS-232C cable (1.8 m): D-sub 9 pins – 2.5 mm phone plug RS-232C cable (4 m): 2.5 mm phone plugs on both ends User's manual Plastic ties	

#### 5. Environment

Condition for operation	5 °C – 35 °C (41 °F – 95 °F), 20 % – 80 % RH non-condensing
Condition for storage	-20 °C – 55 °C (-4 °F – 131 °F), 20 % – 80 % RH non-condensing

#### 6. Safety approval

	LM55P3(W)	LM55P3(C)
Safety approval	UL62368-1, CAN/CSA-C22.2 No.62368-1, EN 62368-1, EN62311, GOST IEC 62368-1, AS/NZS 60950.1, CNS14336-1	GB4943.1
EMC	FCC Part15 Subpart B Class A, ICES-003 Issue No.6 Class A, EN55032 Class A, EN55024, EN61000-3-2, EN61000-3-3, GOST 30805.22 Class A, GOST CISPR 24, GOST 30804.3.2, GOST 30804.3.3, AS/NZS CISPR 32 Class A, CNS13438 Class A, IS 13252 (Part 1), VCCI Class A, JIS C 61000-3-2	GB9254 Class A, GB17625.1
Environment	European Union RoHS, Turkish RoHS	China RoHS

## 7. Options

Remote control kit	DP-02RK	
SDI input board	DP-1SDI-3G	
HDBaseT™ input board	VC-LM1HD	
Wall mount bracket	BR-LM1KK	
Recommended Intel® OPS board	Advantech DS280 (i7-6822EQ, 4+4 GB DDR4, SSD)	
Power cord (3 meters)	North America	JC-PC3MA
	Europe	JC-PC3ME
	Russia	JC-PC3MR
	China	JC-PC3MC
	Japan	JC-PC3MJ

\*1: It can be used for 24-hour operation, although the image persistence would still happen if a static image is displayed for a long term.

\*2: When using with the optional wall mount frame, BR-LM1KK, a certain additional physical gaps is required to draw the monitors out for maintenance.

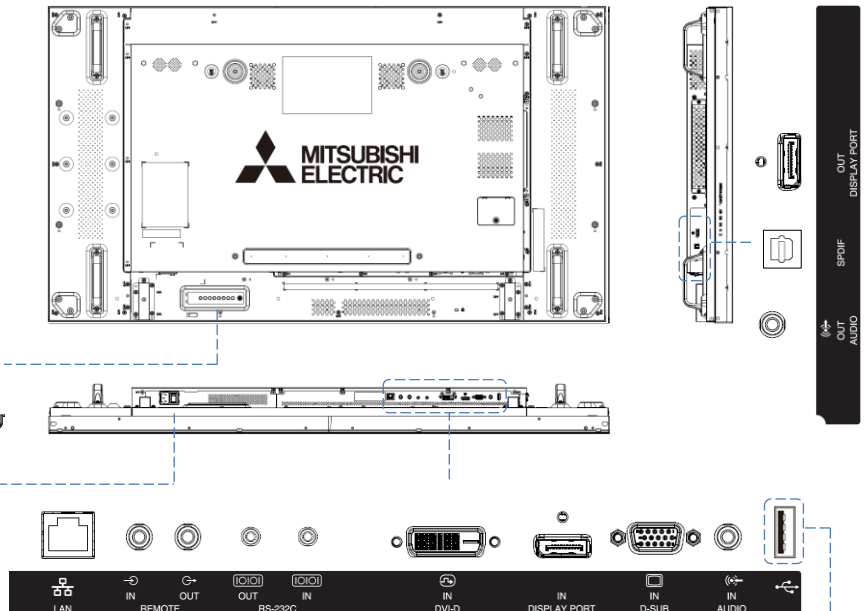
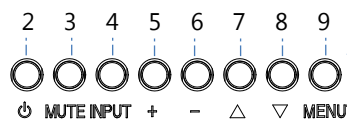
\*3: Can receive a DisplayPort™ SST (single-stream transport) signal. For example, a regular 4K resolution (3840 x 2160 pixels) image from a signal source can be displayed natively on a 2x2 of LCD wall.

\*4: When the ambient temperature rises over 30 °C in high bright mode, the max stack height will be up to 4.

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## Control switches, terminals

1	Main power switch
2	POWER button
3	AUDIO MUTE button
4	INPUT button
5, 6	PLUS/MINUS button
7, 8	UP/DOWN button
9	MENU/EXIT button



For factory use

## Available input signal lists

### Computer signals

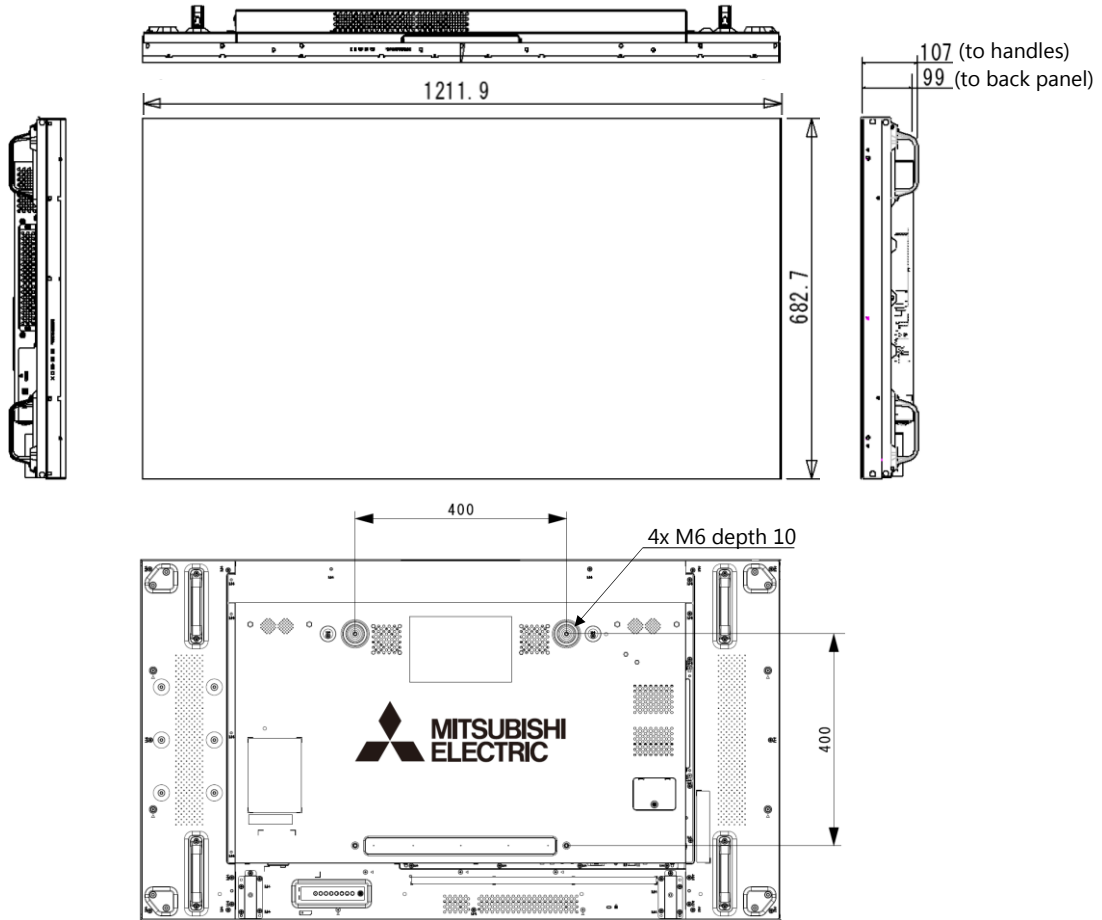
Resolution	Frame rate (Hz)	Line rate (kHz)	Pixel rate (MHz)	DP	DVI-D	OPS	D-sub (RGB)	D-sub (YPbPr)
3840x2160	59.997	133.313	533.250			--		
	49.977	110.500	442.000	✓	--	--	--	--
	29.981	65.688	262.750			✓		
	23.999	52.438	209.750					
3840x1080	59.968	66.625	266.500	✓	--	✓	--	--
2560x1600	59.972	98.713	268.500	✓	--	✓	--	--
2560x1440	59.951	88.787	241.500	✓	--	✓	--	--
1920x1200	59.950	74.038	154.000	✓	✓	✓	✓	--
	49.932	61.816	158.250					
1920x1080	59.963	67.158	173.000		--			
	59.950	66.587	138.500	✓	✓	✓	✓	--
	49.929	55.621	141.500					
1680x1050	59.954	65.290	146.250	✓	✓	✓	✓	--
	49.974	54.121	119.500					
1600x1200	60.000	75.000	162.000	✓	✓	✓	✓	--
1400x1050	74.867	82.278	156.000					
	59.978	65.317	121.750	✓	✓	✓	✓	--
	59.948	64.744	101.000					
1366x768	49.965	54.113	100.000					
	59.790	47.712	85.500	✓	✓	✓	✓	--
1280x1024	85.024	91.146	157.500					
	75.025	79.976	135.000	✓	✓	✓	✓	--
	60.020	63.981	108.000					
1280x960	85.002	85.938	148.500					
	75.000	75.000	126.000	✓	✓	✓	✓	--
	60.000	60.000	108.000					
1280x768	84.837	68.633	117.500					
	74.893	60.289	102.250					
	59.870	47.776	79.500	✓	✓	✓	✓	--
	59.995	47.396	68.250					
1152x864	49.929	39.593	65.250					
	84.999	77.094	121.500					
1024x768	75.000	67.500	108.000	✓	✓	✓	✓	--
	70.012	63.851	94.500					
	84.997	68.677	94.500					
848x480	75.029	60.023	78.750	✓	✓	✓	✓	--
	70.069	56.476	75.000					
	60.004	48.363	65.000					
	84.751	42.969	46.750					
800x600	74.769	37.684	41.000	✓	✓	✓	✓	--
	59.659	29.830	31.500					
	85.061	53.674	56.250					
	75.000	46.875	49.500	✓	✓	✓	✓	--
640x480	72.188	48.077	50.000					
	60.317	37.879	40.000					
	85.008	43.269	36.000					
	75.000	37.500	31.500	✓	✓	✓	✓	--
640x480	72.809	37.861	31.500					
	59.940	31.469	25.175					

### TV signals

Resolution	Frame rate (Hz)	Line rate (kHz)	Pixel rate (MHz)	DP	DVI-D	OPS	D-sub (RGB)	D-sub (YPbPr)
4096x2160	30.00	67.500	297.00					
	25.00	56.250	297.00	✓	--	--	--	--
	24.00	54.000	297.00					
3840x2160	60.00	135.000	594.00	✓				
	60.00	67.500	297.00	--				
	50.00	112.500	594.00	✓				
	50.00	67.500	297.00	--	--	--	--	--
3840x1080	30.00	67.500	297.00					
	25.00	56.250	297.00	✓				
	24.00	54.000	297.00					
	60.00	67.500	148.50					
1080p	50.00	56.250	148.50					
	30.00	33.750	74.25	✓	✓	✓	✓	✓
1080i	25.00	28.125	74.25					
	24.00	27.000	74.25					
	60.00	33.750	74.25	--	--	--	--	--
720p	50.00	28.125	74.50					
	60.00	45.000	74.25	✓	✓	✓	✓	✓
576p	50.00	37.500	74.25					
	50.00	31.250	27.00	✓	✓	✓	✓	✓
480p	59.94	31.469	27.00	✓	✓	✓	✓	✓
	50.00	15.625	27.00	--	✓	✓	--	✓
576i	59.94	15.734	27.00	--	✓	✓	--	✓
	59.94	15.734	27.00	--	✓	✓	--	✓

**External dimensions**

[Unit: mm]



**Packing specification**

