



LCD Display Monitor

LM55P4

Product Specifications

Mitsubishi Electric Corporation
Kyoto Works

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LM55P4 Specifications

1. Product outline

This model is a RNB (Razor-thin narrow bezel) LCD display for display wall applications.

2. Image panel

LCD Type	TFT LCD (IPS panel)	
Resolution	Full HD (1,920 x 1,080 pixels)	
Screen size	55" diagonal	
Surface treatment	Anti-glare (haze 28 %), Hard coating (2H)	
Pixel pitch	0.63 (H) x 0.63 (V) mm	
Backlight	Type	LED (Direct) *1
	Lifetime	100,000 hours (typ.) *2
Bezel width	0.44 mm (min.) *3	
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 ² (typ.)
	Standard	500 cd/m ² (typ.)
	Panel saving	450 cd/m ² (typ.)
Contrast ratio	1,100:1 (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, HDR supported) x1 HDMI™ (HDR supported) x1 DVI-D x1 D-Sub 15 x1			
	Output	DisplayPort™ (1.2a) x1 *4			
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			
Control signals	LAN: RJ45 (10BASE-T/100BASE-TX)				
	RS-232C: 2.5 mm phone jack				
	Wired remote: 3.5 mm phone jack				
	IR receiver				

(Continued)

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
Major functions	Daisy-chainable DisplayPort™ (1.2a) Up to 9 monitors *5 DisplayPort™ SST signal *6 supported One of any input signals including OPS can be looped out. Dynamic brightness balancing Scaling: up to 15x15 Scan inversion mode Screen saver Self-diagnosis HDCP supported (DisplayPort™, HDMI™, DVI-D, OPS)

4. Mechanical specification

		Product	Packing
Dimensions	Width	1,210.7 mm / 47.7"	1,400 mm / 55.1"
	Height	681.4 mm / 26.8"	843 mm / 33.2"
	Depth	98.0 mm / 3.9"	285 mm / 11.2"
Weight		24.0 kg / 52.9 lbs	33 kg / 72.8 lbs
Maximum stack height	Landscape	6 units	
	Portrait	3 units	
available tilt angle		0° to 10° downward (both landscape and portrait orientations)	
Audio noise		24 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

Safety approval	UL62368-1, CAN/CSA-C22.2 No.62368-1, EN 62368-1, EN62311, GOST IEC 62368-1, AS/NZS 62368.1, CNS14336-1
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
Environment	European Union RoHS, Turkish RoHS

7. Options

Remote control kit	DP-02RK	
SDI input board	DP-1SDI-3G	
HDBaseT™ input board	VC-LM1HD	
Wall mount bracket	N/A (commercially-available standard VESA 400 mounts fit the monitors.)	
Recommended Intel® OPS board	Advantech DS280 (i7-6822EQ, 4+4 GB DDR4, SSD)	
	North America	JC-PC3MA
Power cord	Europe	JC-PC3ME
(3 meters)	Russia	JC-PC3MR
	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: In panel saving mode. It will be 60,000 hours in other modes.

*3: To configure multi-monitors, install them as adjacent monitors don't touch each other.

*4: HDR is not supported. To display an HDR content across multiple monitors, input the signal separately to each monitor with a matrix switcher or a distribution amplifier.

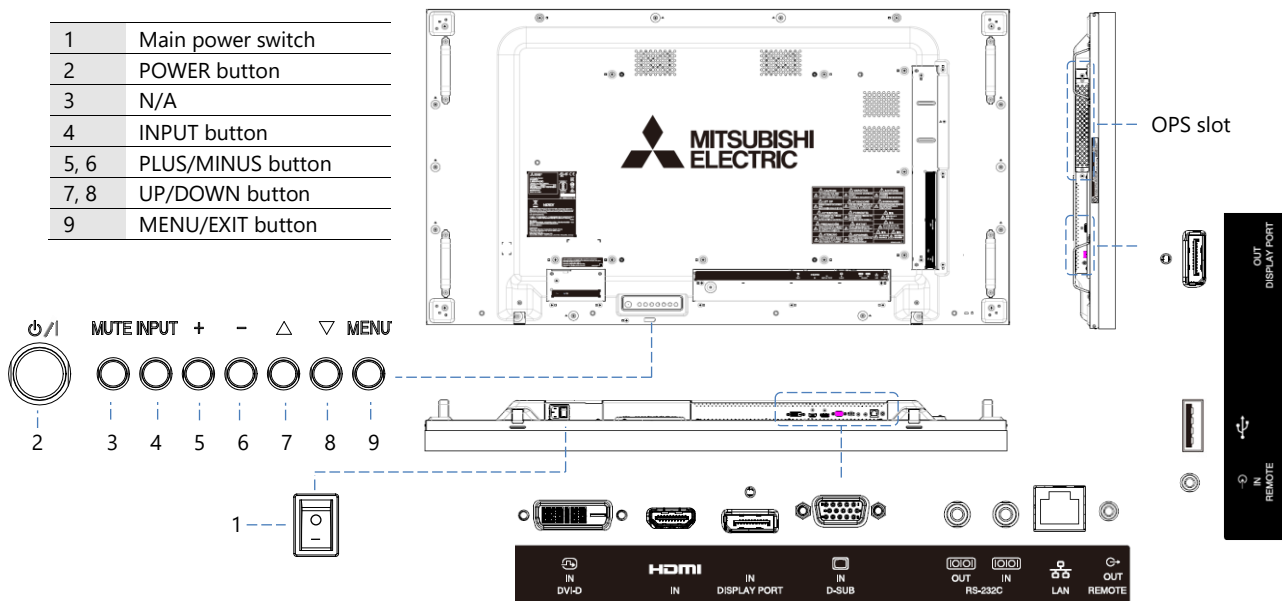
*5: Up to 4 monitors for HDCP sources.

*6: 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 through a single daisy-chain line.

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Control switches, terminals

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



Available input signal lists

Computer signals

Resolution	Frame rate (Hz)	Line rate (kHz)	Pixel rate (MHz)	DP	HDMI	DVI-D	OPS	D-sub (RGB)
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	✓	✓	--	--	--
1920x2160	60.000	135.000	297.000	✓	✓	--	--	--
	59.988	133.293	277.250					
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					
	49.965	54.113	100.000					
1366x768	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					
	75.000	67.500	108.000	✓	✓	✓	✓	✓
1024x768	70.012	63.851	94.500					
	84.997	68.677	94.500					
	75.029	60.023	78.750	✓	✓	✓	✓	✓
	70.069	56.476	75.000					
848x480	60.004	48.363	65.000					
	84.751	42.969	46.750					
	74.769	37.684	41.000	✓	✓	✓	✓	✓
800x600	59.659	29.830	31.500					
	85.061	53.674	56.250					
	75.000	46.875	49.500	✓	✓	✓	✓	✓
	72.188	48.077	50.000					
640x480	60.317	37.879	40.000					
	85.008	43.269	36.000					
	75.000	37.500	31.500	✓	✓	✓	✓	✓
	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	HDMI	DVI-D	OPS	D-sub (RGB)
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	--	✓	--	--	--
	30.00	67.500	297.00					
1080p	25.00	56.250	297.00	✓				
	24.00	54.000	297.00					
	60.00	67.500	148.50					
	50.00	56.250	148.50					
1080i	30.00	33.750	74.25	✓	✓	✓	✓	✓
	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	✓	✓	✓	✓	✓
576i	50.00	15.625	27.00	--	✓	✓	✓	--
480i	59.94	15.734	27.00	--	✓	✓	✓	--

