



DLP™ LED Display Engine
VS-WE120U
Product Specifications



Mitsubishi Electric Corporation
Kyoto Works

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VS-WE120U Specifications

1. Imaging device and light source

Type	DLP™ chip (0.96" DLP™ 1 chip) with DarkChip3™ and BrilliantColor™ technologies
Native resolution	1920 x 1200 pixels (WUXGA mode) 1920 x 1080 pixels (Full HD mode)
Light source	Redundant LED (RGB)
Light source average lifetime	100,000 hours in all modes

2. Optical specification (Typical values)

Resolution	WUXGA	Full HD
Light output in bright mode	1200 ANSI lumens	1080 ANSI lumens
Diagonal image size	62" – 82"	60" – 80"
Throwing distance (Lens unit top - Screen) WUXGA / Full HD	62" / 60": 904 +/- 27 mm 72" / 70": 1058 +/- 32 mm 82" / 80": 1217 +/- 37 mm	
Throw ratio (Exit pupil – Screen) / Screen width	0.712 (nominal)	
Exit pupil – Lens unit top	44.5 mm (nominal)	
Contrast ratio	1500:1 (up to 3800:1 * ¹)	
Brightness uniformity	95 % ANSI 13	
Geometry distortion	0.2 %	
Lateral color shift	Red – Green Blue – Green	0.5 pixels

3. Electric specification

		Power consumption	Thermal dissipation
Power consumption / Thermal dissipation (typ.) at 25 °C	Bright	225 W	193.5 kcal/h (768 BTU/h)
	Normal	137 W	117.8 kcal/h (468 BTU/h)
	Eco	97 W	83.5 kcal/h (331 BTU/h)
	Advanced eco	77 W	66.3 kcal/h (263 BTU/h)
Voltage range		AC 100 – 240 V +/-10 %, 50/60 Hz +/-1 Hz	
Operating current (100/240 V)	Single power	3.3/1.4 Amp.	
	Redundant power	3.4/1.7 Amp	
Inrush current (100/240 V)		30/60 Amp.	
Input signal terminals	Digital/ Analog	DVI-I (with HDCP) x1 Up to 50-meter long DVI cable supported * ² Analog YPbPr supported Analog Sync on Green supported	
	Digital	DVI-D (with HDCP) x1 DisplayPort™ (DP1.2a) x1	
Output signal terminal		DisplayPort™ (DP1.2a) x1 (for daisy chain)	
Input frequencies	Resolution	VGA (640 x 480) – WUXGA (1920 x 1200)	
	Horizontal	31.5 – 92 kHz	
	Vertical	49 – 85 Hz	
	Pixel clock	25 – 165 MHz	

(Continued)

Control signals	RS-232C: D-Sub 9 pins LAN: RJ45 (10BASE-T/100BASE-TX) Wired remote: F3.5 Jack IR receiver
Communication between the monitors	Mitsubishi original control link: D-Sub 9 pins (input, output)
Optional input board slot	Intel® OPS slot x 1
Major functions	Daisy-chainable DisplayPort™ (DP1.2a) Up to 9 cubes, or Up to 4 cubes for a DisplayPort™ MST signal *3 Dynamic brightness balancing Up to 2 overlay windows per screen Input signal redundancy Redundant power supply (option) Color space control Digital gradation 12-bit dithering Self-diagnostic

4. Mechanical specification

	Product	Packing
Dimensions	Width	720 mm / 28.3"
	Height	870 mm / 34.3"
	Depth	490 mm / 19.3"
Weight	344 mm / 13.5"	530 mm / 20.9"
Weight	28 kg / 62 lbs	33 kg / 73 lbs
Audio noise	38 dBA (typ.) (at 1m distance from the engine unit)	
Accessories	user's manual, control link cable	

5. Environmental condition

For operation	10 °C – 35 °C (50 °F – 95 °F), 20 % – 80 % RH non-condensing
For storage	-20 °C – 50 °C (-4 °F – 122 °F), 20 % – 80 % RH non-condensing

6. Safety approval

Safety approval	UL60950-1, CSA C22.2 No.60950-1, EN60950-1, EN62311, GOST IEC60950-1, K60950-1, AS/NZS 60950-1
EMC	FCC Part15 Subpart B Class A, ICES-003 Issue No.5 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, KN32 Class A, KN35, AS/NZS CISPR 32 Class A, VCCI Class A, JIS C 61000-3-2
Environment	European Union RoHS, Turkish RoHS

7. Part average lifetime

DLP™ chip	100,000 hours
Cooling fans	100,000 hours

8. Options

Redundant power supply	S-WE120RPWR	
Remote control unit	R-XL51TX	
SDI input board	DP-1SDI-3G	
Spare LED unit	S-WE120LE	
Motorized adjustment tool	S-A70E	
Motor units for screen/mirror	S-MA70E	
	North America	JC-PC3MA
Power cord (3 meters)	Europe	JC-PC3ME
	Russia	JC-PC3MR
	Japan	JC-PC3MJ

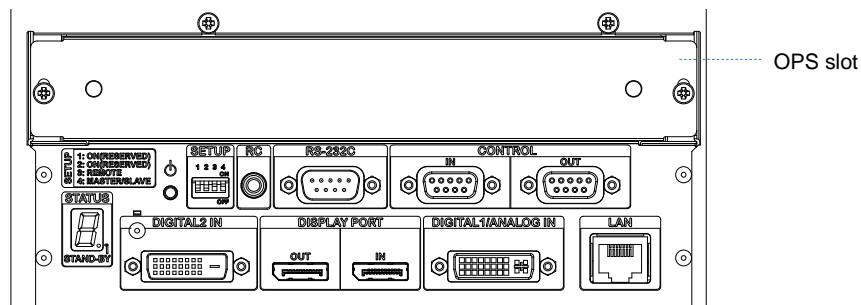
*1: Full on/off contrast ratio

*2: The length varies depending on the quality of the source signals and the cables.

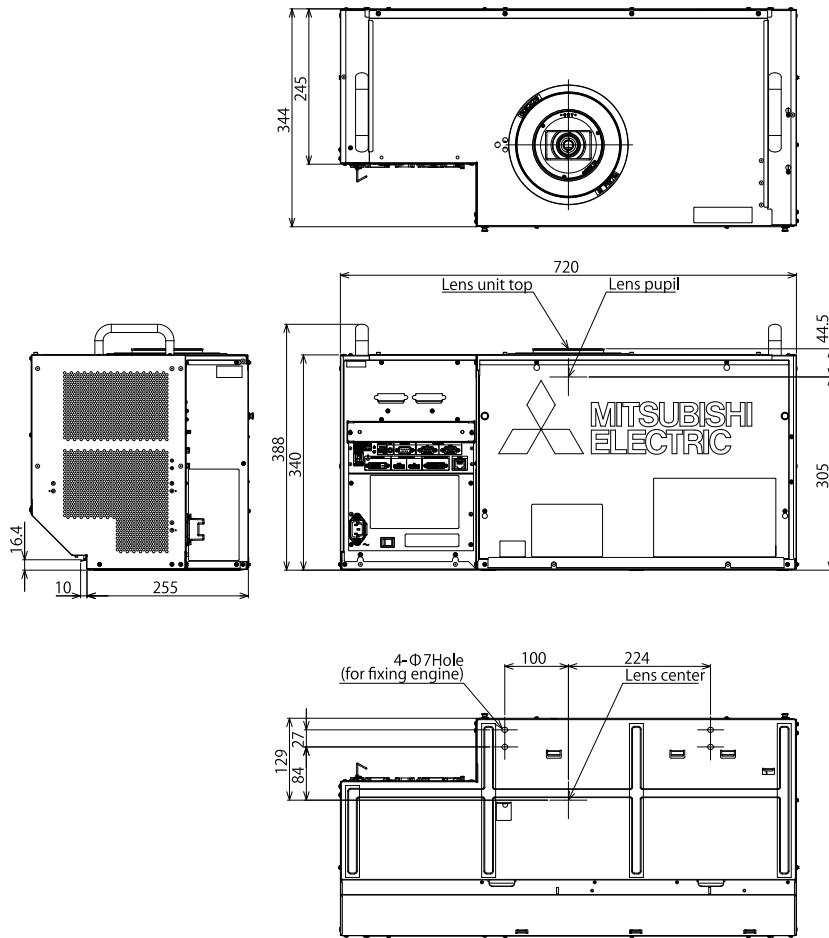
*3: Can receive a DisplayPort™ MST (multi-stream transport) signal with up to 4 WUXGA (1920 x 1200) video streams embedded. Each of the 4 streams can then be routed to individual cubes. For example, you can display a native 3840 x 2400 resolution MST signal on a 2x2 of cubes from a single source cable using daisy chaining.

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Terminals



External dimensions



Packing specification

