

**DLP™ LED Display Cube**  
**62WE120**  
**Product Specifications**



**Mitsubishi Electric Corporation**  
**Kyoto Works**

Rev. 3.0  
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## 62WE120 Specifications

### 1. Components

Model	Engine	Cabinet	Screen	Features
62WE120U	VS-WE120U	S-62WE75CA	SC-62WE75U	Black stripe screen
62WE120L2			SC-62WE120L	Fine cross screen No screen center screw No screen holding tabs

### 2. Imaging device and light source

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

### 3. Optical specification (Typical values)

Model	62WE120U		62WE120L2
Screen type	Black stripe screen		Fine cross screen
Brightness	Bright	1160 cd/m <sup>2</sup>	590 cd/m <sup>2</sup>
	Normal	820 cd/m <sup>2</sup>	420 cd/m <sup>2</sup>
	Eco	550 cd/m <sup>2</sup>	280 cd/m <sup>2</sup>
	Advanced eco	210 cd/m <sup>2</sup>	100 cd/m <sup>2</sup>
Viewing angle	Horizontal	1/2 gain: +/- 35°, 1/10 gain: +/- 57°	
	Vertical	1/2 gain +/- 10°, 1/10 gain: +/- 28°	1/2 gain +/- 33°, 1/10 gain: +/- 55°
Screen size	62" diagonal size (1333.5 mm x 833.5 mm)		(1334 mm x 834 mm)
Light output	1200 ANSI lumens in bright mode		
Contrast ratio	1500:1 (up to 3800:1 * <sup>1</sup> )		
Access direction	Rear maintenance		
Mullion size	0.2 mm or greater * <sup>2</sup>		
Brightness uniformity	95 % ANSI 13		
Geometry distortion	0.2 %		
Lateral color shift	Red – Green	0.5 pixels	
	Blue – Green		

### 4. 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.		

(Continued)

Input signal terminals	Digital/ Analog	DVI-I (with HDCP) x1 Up to 50-meter long DVI cable supported *3 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
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 *4  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

## 5. Mechanical specification

		Packing			
		Product	Engine	Cabinet	Screen
Dimensions	Width	1335 mm / 52.6"	870 mm / 34.3"	1400 mm / 55.1"	1490 mm / 58.7"
	Height	1088.5 mm / 42.9"	490 mm / 19.3"	1268 mm / 49.9"	1015 mm / 40.0"
	Depth	797 mm / 31.4"	530 mm / 20.9"	940 mm / 37.0"	180 mm / 7.1"
Weight		89 kg / 197 lbs	33 kg / 73 lbs	76kg / 168 lbs	22 kg / 49 lbs
Audio noise		30 dBA (typ.) (at 1m distance from the screen center)			
Accessories		Engine: user's manual, control link cable Cabinet: user's manual, chassis cover, parts for cube connection, bolts for engine fixation, seals for joint holes Screen: user's manual			

## 6. 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

## 7. 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

## 8. Part average lifetime

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

## 9. 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	
Power cord (3 meters)	North America	JC-PC3MA
	Europe	JC-PC3ME
	Russia	JC-PC3MR
	Japan	JC-PC3MJ

\*1: Full on/off contrast ratio

\*2: It differs according to the cube configurations and environments.

The following gaps are recommended for large display walls to allow for seasonal environmental fluctuations.

62WE120U: 1.5 mm (horizontal direction) and 1.0 mm (vertical direction)

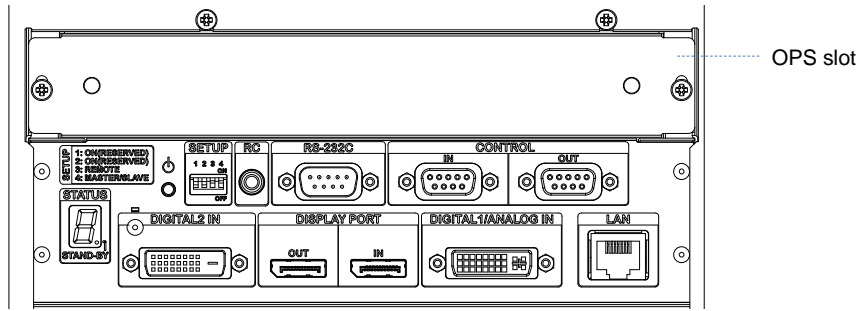
62WE120L2: 1.0 mm (horizontal direction) and 0.5 mm (vertical direction)

\*3: The length varies depending on the quality of the source signals and the cables.

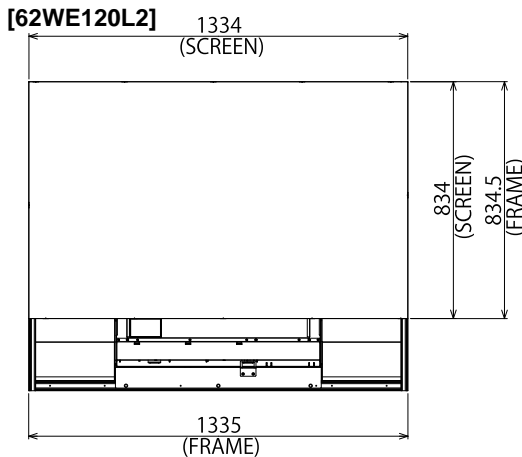
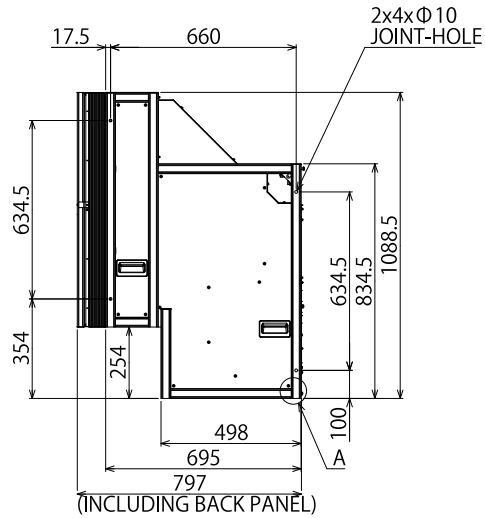
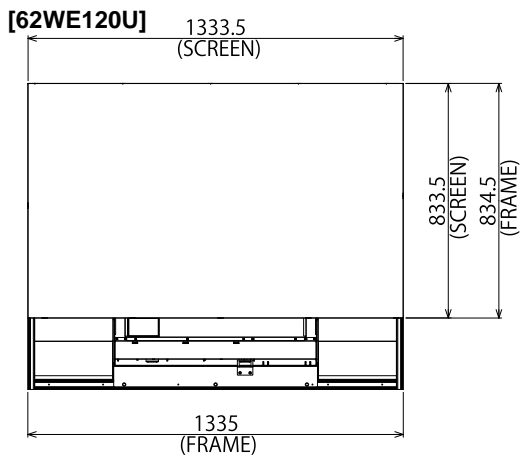
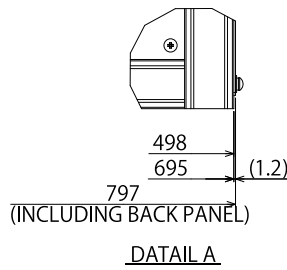
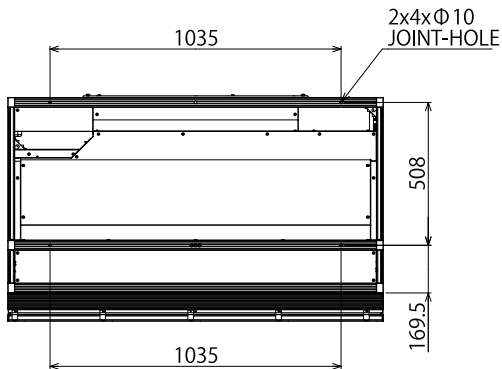
\*4: Can receive a DisplayPort™ MST (multi-stream transport) signal with up to 4 WUXGA (1920 x 1200) video streams embedded. Each of the 4 streams can then be routed to individual cubes. For example, you can display a native 3840 x 2400 resolution MST signal on a 2x2 of cubes from a single source cable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

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- Information in this document is subject to change without notice.

**Terminals**



**External dimensions**

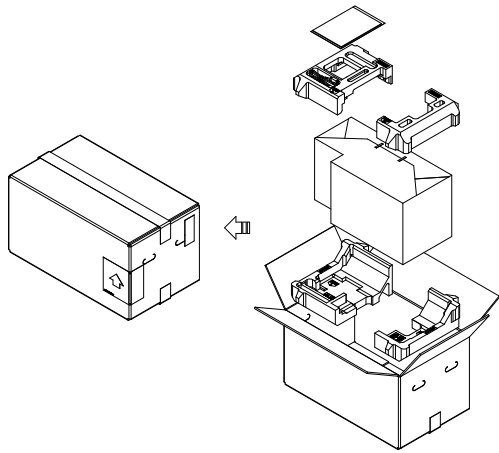


Rear view

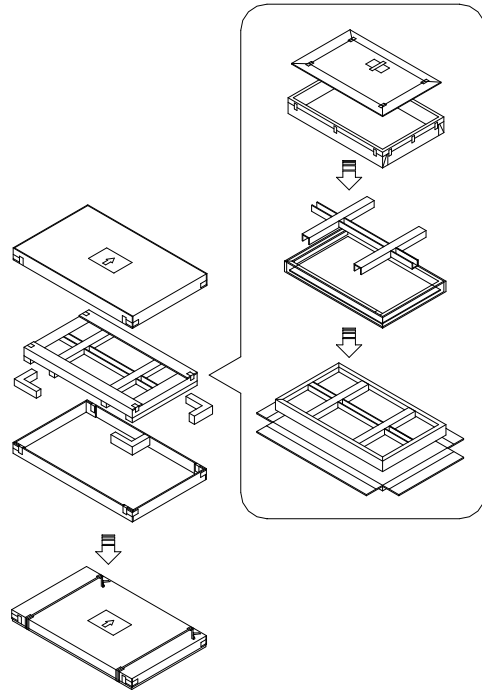


**Packing specification**

Engine



Screen



Cabinet

