



**DLP™ LED Display Cube**  
**72WE120**  
**Product Specifications**



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

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## 72WE120 Specifications

### 1. Components

Model	Engine	Cabinet	Screen	Features
72WE120U	VS-WE120U	S-72WE75CA	SC-72WE75U	Black stripe screen
72WE120L2			SC-72WE120L	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	72WE120U	72WE120L2	
Screen type	Black stripe screen	Fine cross screen	
Brightness	Bright	860 cd/m <sup>2</sup>	440 cd/m <sup>2</sup>
	Normal	610 cd/m <sup>2</sup>	310 cd/m <sup>2</sup>
	Eco	410 cd/m <sup>2</sup>	210 cd/m <sup>2</sup>
	Advanced eco	150 cd/m <sup>2</sup>	70 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	72" diagonal size (1548 mm x 967.5 mm)		(1549 mm x 968.5 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 (typ.) at 25 °C		Power consumption	Thermal dissipation
		Bright	225 W
	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	1550 mm / 61.0"	870 mm / 34.3"	1615 mm / 63.6"	1710 mm / 67.3"
	Height	1242 mm / 48.9"	490 mm / 19.3"	1425 mm / 56.1"	1150 mm / 45.3"
	Depth	897 mm / 35.3"	530 mm / 20.9"	1000 mm / 39.4"	180 mm / 7.1"
Weight		107 kg / 236 lbs	33 kg / 73 lbs	96 kg / 212 lbs	27 kg / 60 lbs
Audio noise		29 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.

72WE120U: 2.0 mm (horizontal direction) and 1.5 mm (vertical direction)

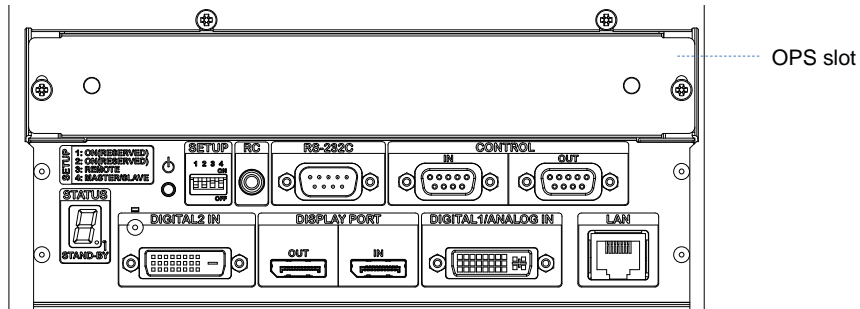
72WE120L2: 1.0 mm (horizontal direction) and 0.5 mm (vertical direction)

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

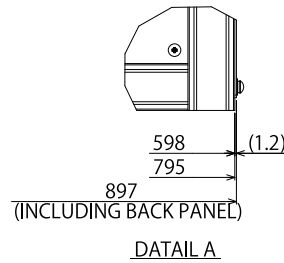
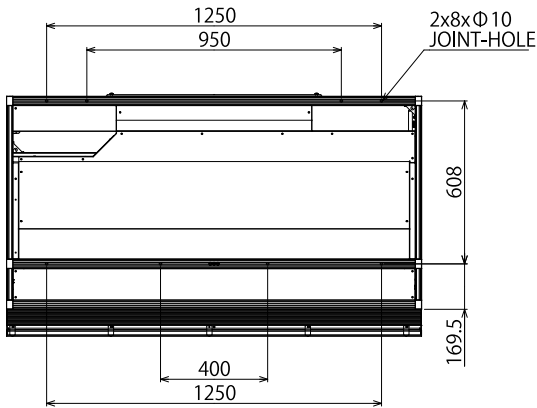
\*4: Can receive a DisplayPort™ MST (multi-stream transport) signal with up to 4 WUXGA (1920 x 1200) video streams embedded. Each of the 4 streams can then be routed to individual cubes. For example, you can display a native 3840 x 2400 resolution MST signal on a 2x2 of cubes from a single source cable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

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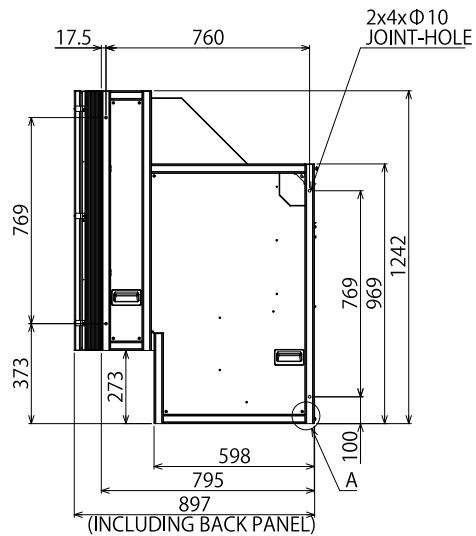
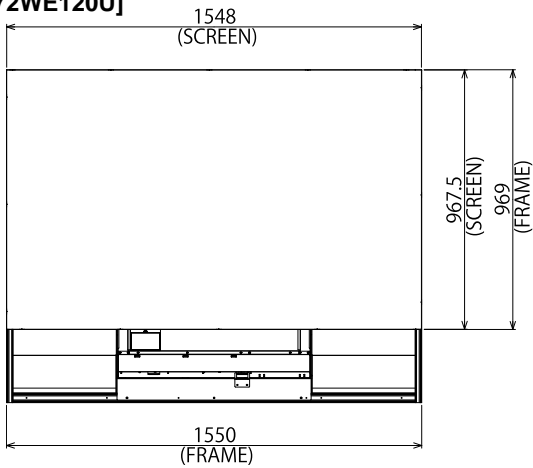
## Terminals



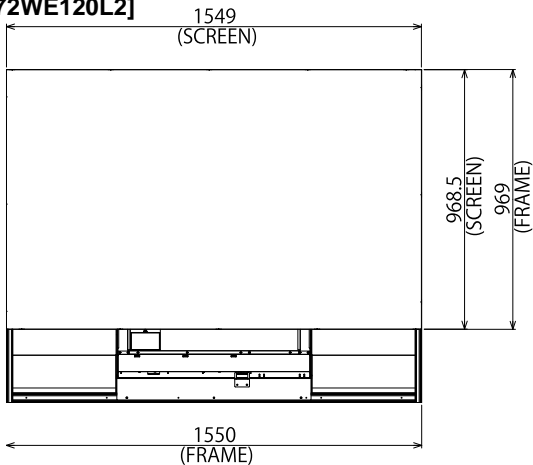
## External dimensions



### [72WE120U]



### [72WE120L2]

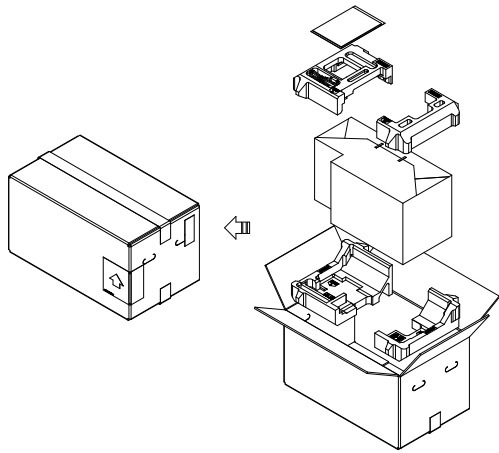


### Rear view

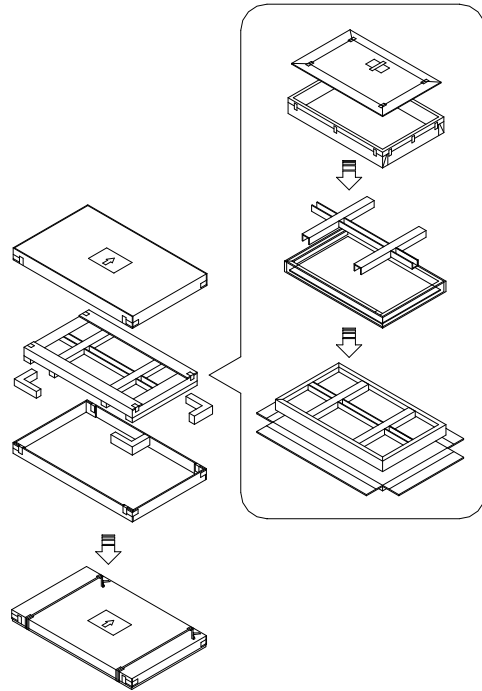


### Packing specification

Engine



Screen



Cabinet

