

Product Specifications

DLP™ LED Display Cube

Model: VS-60HS12U

Information in this document is subject to change without notice.

**Mitsubishi Electric Corporation
Kyoto Works**

Date: August 1, 2016

VS-60HS12U model Specifications

(1) Image panel and light source

Type	DLP™ technology (0.65" DLP™ 1 chip) DarkChip3™, BrilliantColor™
Native Resolution	1920 x 1080 pixels (5% overscan)
Light source	LED (RGB)
Light source average lifetime	60,000hours

DLP and Digital Light Processing are trademarks of Texas Instruments.

(2) Electric specification

Power consumption Thermal dissipation (typ.)	Mode	Power consumption	Thermal dissipation
	BRIGHT	123W	105.8kcal/h (420BTU/h)
	NORMAL	96W	82.6kcal/h (328BTU/h)
	ECO	61W	52.5kcal/h (208BTU/h)
Voltage range		AC 100 – 240V +/-10% , 50/ 60Hz +/-1Hz	
Operating current (100/240V)		1.7/0.9 Amp.	
Inrush current (100/240V)		30/60 Amp.	
Signal input terminal		Digital/Analog RGB: DVI-I(DVI 1.0/HDCP) x1	
RGB Input scanning frequency	Signal resolution	VGA (640x480) – WUXGA (1920x1200) (Refer to attached "Supported signal list")	
	Horizontal	31.5kHz – 92kHz	
	Vertical	49Hz- 85Hz	
Analog RGB video input signal		Video: 0.7V _{P-P} positive / 75Ω Synchronous: TTL level (positive/negative) Sync On Green: Video: 0.7V _{P-P} positive / 75Ω Synchronous: 0.3V _{P-P} negative / 75Ω	
Pixel clock rate		25 MHz – 165MHz	
Control signal input		RS-232C: D-Sub 9 pins	
		LAN: RJ45 x1 (10BASE-T/100BASE-TX)	
		D-Sub 9 pins x 2 (input, output) Mitsubishi original control link	
		Wire remote: F3.5Jack	
		IR Receiver	
Functions		Scaling: shrink and zoom. Frame rate conversion.	

(3) Optical specification (Typical value)

Brightness	BRIGHT mode	700 cd/m ²
	NORMAL mode	560 cd/m ²
	ECO mode	280 cd/m ²
Viewing angle	Horizontal	1/2 gain: +/- 35° 1/10 gain: +/- 57°
	Vertical	1/2 gain +/- 10° 1/10 gain: +/- 28°
Screen size		60" Diagonal size (1333.5mm x 750mm)
Contrast ratio		1000:1
Brightness uniformity		90% at 90% image height
Geometry distortion		0.5%
Mullion size (*)		Horizontal: 1.0mm – 2.5mm Vertical: 1.0mm – 2.0mm
Lateral color shift Red – Green Blue – Green		0.75pixel (Red-Green) 1.0pixel (Blue-Green)

(*) Depending on configuration and environment.

2.5mm (Horizontal), 2.0mm (Vertical) recommended for large walls to allow for expansion due to heat and humidity.

(4) Mechanical specification (Approximate value)

Dimensions	Width	1336mm / 52.6"
	Height	952mm / 37.5"
	Depth	520mm / 20.5"
Weight		60kg / 132lbs
Audio noise		30 dBA (typ.) (at 1m distance from the cube unit)
Packing dimensions	Width	1400mm / 55.1"
	Height	1150mm / 45.3"
	Depth	660mm / 26.0"
Packing Weight		77 kg / 170lbs
Accessories		User's manual Control cable Parts for connecting cubes

(5) Environment

Temperature and humidity Condition at operation	10°C – 30°C (50°F – 86°F), 20% – 80% non condensing
Temperature and humidity Condition at storage	-20°C – 50°C (-4°F – 122°F), 20% – 80% non condensing

(6) Safety approval

Safety approval	UL60950-1, CSAC22.2No.60950-1, EN60950-1 GOST IEC 60950-1, IS 13252 (Part 1), K60950-1, AS/NZS60950.1, GB4943.1
EMC	FCC part15 Subpart B Class A ICES-003 Issue No.5 Class A EN55022 Class A, EN55024 EN61000-3-2, EN61000-3-3 GOST R 51318.22 (Class A), GOST 30805.24, GOST R 51318.24 GOST R 51317.3.2, GOST R 51317.3.3 KN22 Class A, KN24 AS/NZS CISPR 22 Class A GB9254 Class A, GB17625.1 VCCI Class A, JIS C 61000-3-2

(7) Options

Remote control unit	R-XL51TX
Power cord (North America)	JC-PC3MA
Power cord (Europe)	JC-PC3ME
Power cord (China)	JC-PC3MC
Power cord (Russia)	JC-PC3MR
Power cord (Japan)	JC-PC3MJ

Supported signals list

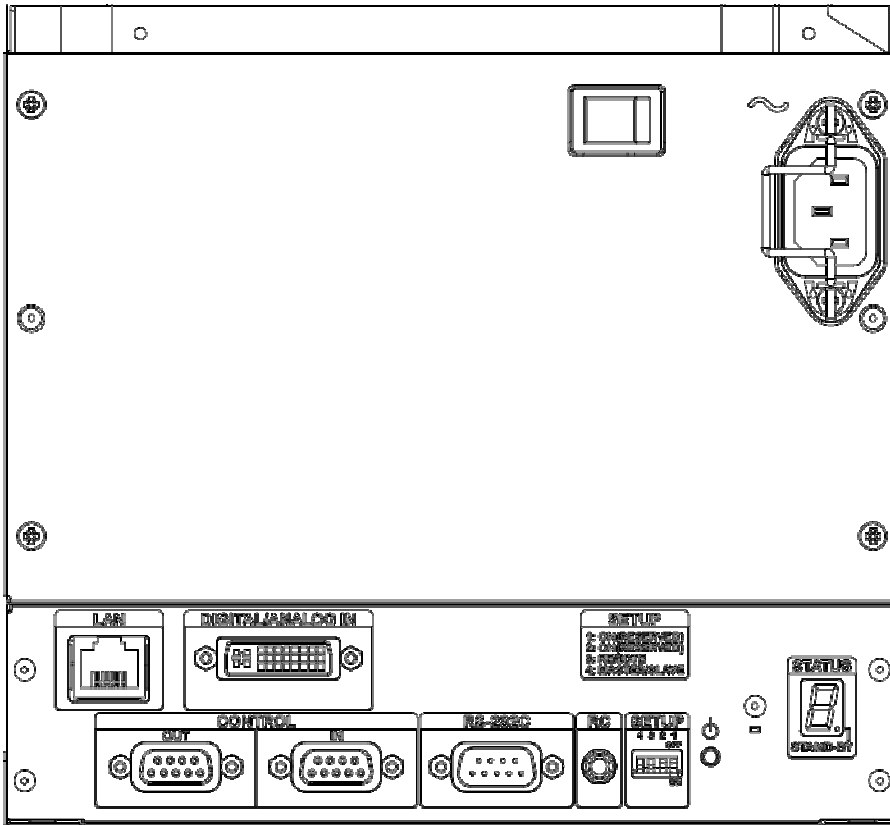
RGB signals

Signal	Resolution	Refresh rate (Hz)	Line rate (kHz)
VESA	1920 x 1200	60.0	74.0
	1920 x 1080	60.0	67.5
	1680 x 1050	60.0	65.3
	1600 x 1200	60.0	75.0
	1440 x 900	59.9	55.9
	1400 x 1050	59.9	64.7
		60.0	65.3
		74.9	82.3
	1366 x 768	59.8	47.7
	1360 x 768	60.0	47.7
	1280 x 1024	60.0	64.0
		75.0	80.0
		85.0	91.1
	1280 x 960	60.0	60.0
	1280 x 800	59.8	49.7
	1280 x 768	59.9	47.8
	1280 x 720	60.0	45.0
	1152 x 864	75.0	67.5
	1024 x 768	60.0	48.4
		70.1	56.5
		75.0	60.0
		85.0	68.7
	848 x 480	60.0	31.0
	800 x 600	56.3	35.2
		60.3	37.9
		72.2	48.1
		75.0	46.9
		85.1	53.7
	720 x 400	85.0	37.9
	640 x 480	59.9	31.5
		72.8	37.9
		75.0	37.5
85.0		43.3	
640 x 400	85.1	37.9	
640 x 350	85.1	37.9	
PC	1400 x 1050	60.0	64.0
	1280 x 1024	60.0	63.4
	1280 x 960	75.0	75.0
	1152 x 864	70.0	63.9
		85.1	77.5
640 x 400	70.1	31.5	
	84.1	37.9	
Mac	1152 x 870	75.0	68.6
	1024 x 768	74.9	60.2
	832 x 624	74.5	49.7
	640 x 480	66.7	35.0
Unix	1280 x 1024	59.9	64.6
		71.2	75.1
		72.0	78.1
		76.1	81.1
HDTV	1920 x 1080	50.0	28.1
		59.9	33.7
	1280 x 720	50.0	37.5
		59.9	45.0

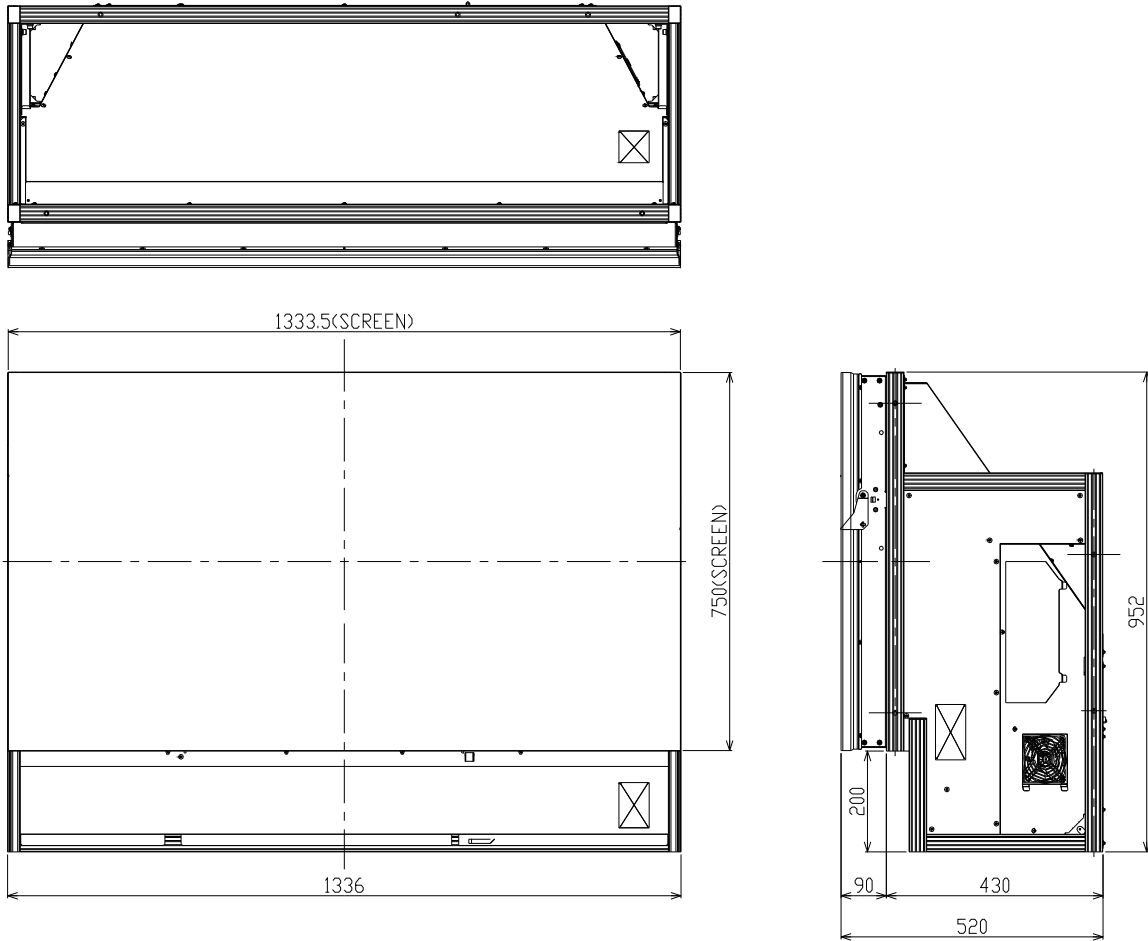
Y/Cb/Cr (Y/Pb/Pr) signals

Signal	Resolution	Refresh rate (Hz)	Line rate (kHz)
1125p/1080p	1920 x 1080	50.0	56.3
		59.9	67.4
1125i/1080i	1920 x 1080	50.0	28.1
		59.9	33.7
750p/720p	1280 x 720	50.0	37.5
		59.9	45.0
625p/576p	720 x 576	50.0	31.3
525p/480p	720 x 480	59.9	31.5

Terminal appearance



External dimensions



Packing specification

