



Display Wall



Redundant



New Wide-format LED Display Wall Cubes Guarantee High Performance and Quality

Energy-saving LED light source and DLPTM projector system incorporated to realize more advanced visual communications. Display wall cubes with wide formats of 16:9 and 16:10 newly added to the product line-up, further enhancing our ability to tailor solutions that suit diversified customer applications.







City of Toronto Traffic Management Cente

Smart 7 ~ New Functions for Market Leading Large Display Wall Systems

The key to visual communications can be found in Mitsubishi Electric's Smart 7 technologies, the core concept behind display wall design at Mitsubishi Electric. These advanced cutting-edge technologies are incorporated in all 70 Series products, ensuring innovative display solutions for command and control room applications.





Largest LED Display Wall Cube Line-up Ever

An expansive line-up is now available including 62 and 72-inch 16:10 well, Black Stripe (standard) and Cross-lenticular, which vary in wide models, 60 and 70-inch 16:9 wide models, and 50, 60, 67 and 80-inch 4:3 models. Available resolutions include XGA, SXGA+, choices gives users more flexibility in creating the optimal system to Full HD(1080P) and WUXGA. Two screen options are offered as

brightness and viewing angle capabilities. This expanded range of match the application and installation environment.

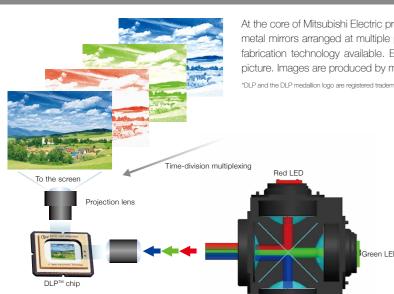
*All Mitsubishi display wall cubes are manufactured using seismic simulation which was performed at the product Electric design stage.

4:3 format





DLP™ Technology for the Ultimate in High Quality and Digital Control



At the core of Mitsubishi Electric projection technology is the DLPTM chip: a display device with minute metal mirrors arranged at multiple points on a silicon base using the most advanced semiconductor fabrication technology available. Each micromirror corresponds to a single pixel or element of the picture. Images are produced by maneuvering these micromirrors electronically.

DLP and the DLP medallion logo are registered trademarks of Texas Instruments in the United States of America

Consistent High-quality Images

Full digital control of color and gradation at every micromirror results in images with consistently high picture quality and uniform color and brightness, even between the center and edges of the display wall.

Higher Reliability

The $\mathsf{DLP^{TM}}$ chip is a reflective device with a very high reflection ratio, thus very little energy remains on the chip itself. This characteristic allows still images, text data and other fixed patterns to be displayed for long periods of time without image retention or burn-in that occurs with other image processing methods.

LED Light Source Advantages

Virtually Maintenance Free

An LED light source has an average service life that is approximately 10 times longer than that of conventional ultra high-pressure mercury lamps. Combined with the 100,000hr, ultralong service life of our fans, the average service life of Mitsubishi Electric LED display wall cubes is more than 10 years, even when operated 24/7.

Choice of Four Brightness Modes

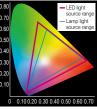
Equipped with an original LED power control circuit, each display wall cube can be set to operate in one of four modes: Normal, Bright, Eco or Advanced Eco. As a result, command and control room operators can select the brightness according to the environment and use.

Proven Performance

Over 61,000 Mitsubishi Electric display wall products have been delivered to mission-critical command and control rooms around the world. Our new LED projection engines are developed through the deep understanding and experience gained from the market and listening closely to customers' needs. *As of November 2013, in-house research.

Wider Color Reproduction Range

The LED light source offers a much wider range of color reproduction, allowing a larger array of vivid colors to be used for the icons and symbols frequently used in command and control rooms. This ultimately makes it easier for command and control room operators to share information.



Multiple Picture Settings

Mitsubishi Electric LED display wall cubes have multiple picture settings, giving customers the freedom to choose the best setting according to the application and content being displayed. Optimized Color is best for reproducing natural looking colors, Vivid Color realizes more striking colors in icons/symbols, and Low Color Temperature is ideal for backdrop applications in broadcasting studios.

Eco-conscious

The LED light source eliminates the use of mercury, and thus helps to preserve the environment. At the same time, the Eco mode setting contributes to lower power consumption and CO2 emissions than display wall cubes that use a conventional ultrahigh-pressure mercury lamp.

Air Cooling System for LED Light Source

Liquid Cooling System

Pump/Drive parts are required to circulate the liquid

Complex system requiring liquid reservoir and tube

Coolant must be replaced frequently due to Pump has a short service life (approx. 50,000hr)



Air Cooling System

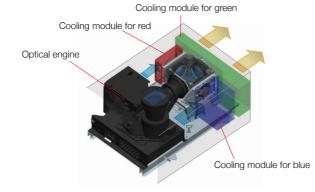
Highly efficient, compact cooling module

No moving parts that require frequent replacement

Long service life

Efficient Air Cooling System Realizes Higher Reliability

The system has an optimal airflow path and cooling module design that are perfectly matched to the characteristics of the LED light source.



*The cooling module consists of a highly efficient cooling tube and aluminum plate.

Digital Gradation Circuit

Loss of brightness at the screen edges is no longer a

problem owing to Mitsubishi Electric's innovative

digital gradation circuit. Brightness is distributed evenly

across the screen, ensuring the reproduction of sharp,

vivid images from edge to edge on multi-screen

Intelligence

New Optical Engine and Image-quality Circuit Design

High Contrast and Brightness

A newly developed optical system fully tuned to match the LED light source has been introduced, improving brightness uniformity even further. Higher contrast and brightness have also been realized for the wide models: 1,500:1 contrast for WE and HE; and 1,160cm/m² high brightness for 62WE78 and 62WEF78. For the 4:3 models, a higher contrast of 1,600:1 has been realize for PE, 1,700:1 has been realized for XE, and a high brightness of 1,580 cm/m² has been obtained for 50PE78 and 50PEF78.

Color Space Control Circuit

To compensate for the color and brightness inconsistencies on display wall cubes, Mitsubishi Electric has developed an original Color Space Control Circuit that balances and blends colors. The ratios of each primary color (red/green/blue) and other color mixtures are adjusted to provide consistent color blending and superior uniformity on multi-screen configurations.





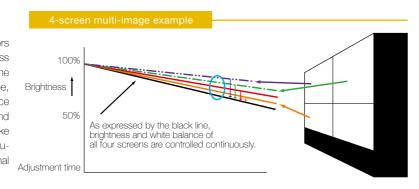
configurations.



Auto-balancing

Dynamic Color & Brightness Balancing

Each display wall cube is equipped with three built-in sensors (one for each primary color) that use a color and brightness maintenance algorithm. The sensors continually monitor the individual red, green and blue output of each display wall cube, Brightness share the data with adjacent cubes, and adjust performance automatically to produce extremely accurate colors and brightness balance over the entire display. These features make it possible to maintain image uniformity on multi-screen configurations over long periods of operation without using external software or a computer.



Full Front Access for Simple Maintenance

Mitsubishi Electric offers a wide line-up of front-access products: front access is available for 60" [Full HD (1080P)] and 70" [Full HD (1080P)], 62" (WUXGA) and 72" (WUXGA) models, as well as 4:3 models (50", 60" and 67", both XGA and SXGA+). The specially designed slide-and-lift screen and air-ventilation system allow all installation and maintenance work to be completed from the front. As a result, no maintenance space is needed behind the display wall cubes even if they are tiled as a display wall installation.





Flexibility

More Ports and Increased Input Resolution Options



The number of input boards has been increased for compatibility with a wider range of input signals. Compatibility with input resolution has also been increased, now including up to WUXGA (1920×1200).

*Possible to select up to three boards per display wall cube



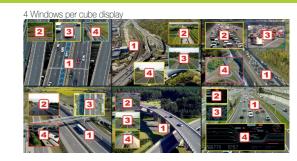




Internal Processing

The 70 Series video wall cubes are equipped with an internal image data processing function. In addition to the background image, up to 4 windows of any size can be displayed across each cube without using an external computer.

Used in combination with Mitsubishi Electric's D-Wall software suite, the entire imagina system can be controlled intuitively from a user-friendly graphical user interface.



Redundancy

Redundant LED

Mitsubishi Electric's original LED light source utilizes the ideal combination of fully redundant RGB LEDs and air cooling system, creating perfect display solutions for 24hr operations. Six light light element malfunctions, thereby enhancing reliability for various mission-critical environments.

(*3) XE models have four elements

Smart Switch

A "Smart Switch" function has been added to Mitsubishi Electric display wall cubes to deliver the signal redundancy necessary for mission-critical applications that require round-the-clock operation. If a signal is unexpectedly lost, the display elements⁽³⁾ for each RGB LED maintain high image quality even if a wall automatically switches to the alternative signal source (either "port-to-port" or "board-to-board") within seconds after the 'no signal' status is detected. This function makes it possible for the user to minimize downtime in the event of a signal source failure.

Abbreviated model name		62WE78	62WEF78	72WE78	72WEF78	60HE78	60HEF78	70HE78	70HEF78	50PE78	50PEF78	60PE78	60PEF78	67PE78	67PEF78	80PE78	50XE74	50XEF74	60XE74	60XEF74	67XE74	67XEF74	
Screen size		62"		72'		60'		70"		50		60		67		80"		50"		60"		67"	
Native resolution		- 02	WUXGA (1920 x				Full HD(1920 :				<u>′</u> I		A+ (1400 x 1050 pix		<u>'</u>		<u> </u>	50		x 768 pixels)	1	01	
Accessibility		Rear	Front	Rear	Front	Rear	Front	Rear	Front	Rear	Front	Rear	Front	Rear	Front	Rear	Rear	Front	Rear	Front	Rear	Front	
Technology		i icai	TIOIL		gy(0.96" DLP™ 1 chi			i iedi	TIOTIL	i iedi		DLP™ technology(0.				I ICAI	11081			chip)/DarkChip3™/E		TIOIL	
recririology	Bright mode	1160ad/m²	2/Tm)	860cd/m	,	1200cd/n	. ,	860cd/m	2/Tim \	1500 ad	/m² (Tvp.)	1090cd/r		880cd/r	. ,	630cd/m² (Tvp.)	9E0od	/m² (Tvp.)	1071	., .	T	d/m² (Tvp.)	
	Normal mode	1160cd/m²(Typ.) 810cd/m²(Typ.)		600cd/m	(71-7	840cd/m	(71-7	600cd/m	. ,, ,	1110 cd	()1- /	770cd/n	() /	610cd/r	() ()	440cd/m² (Typ.)		/m² (Typ.)	590cd/m² (Typ.) 450cd/m² (Typ.)			360cd/m² (Typ.)	
Brightness	Eco mode	810cd/m²(lyp.) 550cd/m²(Typ.)		410cd/m	1717	570cd/m	. ,, ,	410cd/m	. ,, ,	750c d/		520cd/n	. ,, ,	420cd/r		300cd/m² (Typ.)		/m² (Typ.)		/m² (Typ.)	260cd/m²(Typ.)		
	Advanced Eco mode	170cd/m²	. ,, ,	130cd/m		180cd/m		130cd/m		300c d/i	() ()	200cd/n	. , ,	160cd/r	. , ,	120cd/m² (Typ.)		/m² (Typ.)		/m² (Typ.)		l/m² (Typ.)	
	Horizontal	170Cd/111	(Typ.)	130Cu/111	i (iyp.)	16000/111	т (тур.)	13000/111	(тур.)	3000 0/1	1717	±35 deg, 1/10 gain:	1717	16000/1	п (тур.)	120cu/111 (1yp.)	14000	/III (Iyp.)	9000	пт (тур.)	7000	ин (тур.)	
Viewing angle	Vertical											±10 deg, 1/10 gain:											
Contrast ratio					1500:1	(Typ.)							1600:1(Typ.)						1700	:1 (Typ.)			
	Horizontal	0.2 - 1.5mm (*2)	1.0 - 2.5mm (*2)	0.2 - 2.0mm (*2)	1.0 - 3.0mm (*2)	0.2 - 1.5mm (*2)	1.0 - 2.5mm (*2)	0.2 - 2.0mm (*2)	1.0 - 3.0mm (*2)	00.40 (5)	10.00 (5)	00.45 (5)	(7,7)	0.0 0.0 (15)	40.00 "="	00.00 (15)	00.40 (17)	40.00 (17)		T	00.00 (15)	10.00	
Screen-to-screen gap								0.2 - 1.5mm (*2)		0.2 - 1.0mm (*2)	1.0 - 2.0mm (*2)	0.2 - 1.5mm (*2)	1.0 - 2.5mm (*2)	0.2 - 2.0mm (*2)	1.0 - 3.0mm (*2)	0.2 - 3.0mm (*2)	0.2 - 1.0mm (*2)	1.0 - 2.0mm (*2)	0.2 - 1.5mm (*2)	1.0 - 2.5mm (*2)	0.2 - 2.0mm (*2)	1.0 - 3.0mm (*2)	
Light source											Redundant LED (RGB)												
Eight source	Expected lifetime (*3)	100,000 hr (Advanced Eco mode), 80,000 hr (other modes)																					
Key parts lifetime (average)	DLP™ chip									100,000hr (MTBF 650,000 hr)													
Rey parts metime (average)	Cooling fan	100,000 hr																					
		RS-232C: Dsub9																					
		LAN: RJ45 (10BASE-T/100BASE-TX)																					
Control signal input		Dsub9 x 2 (IN/OUT)																					
Control dignal input		Mitsubishi Electric Original Control Link																					
		Wire remote: F3.5 jack																					
		IR reciever																					
Optional input board slot												x3											
	Bright mode				258W (71-7							233W (Typ.)							V (Typ.)			
Power consumption	Normal mode				174W (31 7							147W (Typ.)							V (Typ.)			
(w/ 1 input board)	Eco mode				124W (71 7							108W (Typ.)				102W (Typ.)						
M. H	Advanced Eco mode				96W (T	yp.)					105	2000 1000 55 (3-2)	88W (Typ.)						79V	/ (Typ.)			
Voltage range					0.77.						100-240	DVAC±10%,50/60	HZ±1HZ				1						
Operating current (100/240V)					3.7/1.6							3.4/1.5amp.								.3amp.			
Operating conditions								10-35°C.Degree (50-95°F.Degree)															
Operating conditions	Humidity	(00 00 1.Dog(00)	(CC CC 1.Dog(C6)	(00 00 1.Dogroe)	(00 00 1.Dog(06)	(cc so r.bogroe)	(00 00 1.Degree)	(CC CC 1.Dog(CC)	(00 30 1.Dog(66)	(00 00 1.Dog(06)		80% non-condens		(00 00 1.Dog(66)	(00 00 1.Dog(66)	(00 00 1.Dogree)	(00 00 1.Dogree)	(00 00 1.Dogree)	(50 00 1.Dog(66)	(50 00 1.Dogiee)	(50 50 1.Dogree)	, (30 00 1.Doglee)	
Weight	Tidifficity	94kg/207lb	101kg/223lb	112kg/247lb	116kg/256lb	91kg/201lb	97kg/214lb	107kg/236lb	112kg/247lb	72kg/159lb	79kg/174lb	91kg/201lb	97kg/214lb	106kg/234lb	110kg/243lb	141kg/311lb	72kg/159lb	79kg/174lb	91kg/201lb	97kg/214lb	106kg/234lb	110kg/243lb	
weight	Projection engine	54NY/20110	10 ING/223ID	112NY/24110	VS-WE7		31 NY/2 1410	107 NG/230ID	112NY/24/10	72NG/109ID	7 9Kg/ 17 4ID	31Kg/20110	VS-PE78UA	100Ng/234ID	1 TUNY/243ID	141kg/311lb	72kg/109l0	19NG/114ID		97kg/214lb XE74U	100kg/234lb	1 TUNG/243ID	
Model number	<u> </u>	S-62WE75CA	S-62WE75CAF	S-72WE75CA	S-72WE75CAF		S-60HE75CAF	S-70HE75CA	S-70HE75CAF	S-5070CA	S-5070CAF	S-6070CA	S-6070CAF	S-6770CA	S-6770CAF	S-8070CA	S-5070CA	S-5070CAF	S-6070CA	S-6070CAF	S-6770CA	S-6770CAF	
woder number			SC-62WE75UF		SC-72WE75CAF SC-72WE75UF		SC-60HE75UF		SC-70HE75UF	SC-5070CA SC-5075U	S-5070CAF SC-5075UF	SC-6075U	SC-6075UF	SC-6775U	S-6770CAF SC-6775UF	SC-8075U	SC-5075U	SC-5070CAF SC-5075UF	S-6070CA SC-6075U	SC-6075UF	S-6770CA SC-6775U	SC-6775UF	
I) DI P™. DarkChip3™ and BrilliantColo			3U-02WE/5UF	30-12VVE/5U	50-12VVE/50F	SU-000E/50	SU-DUNE/SUF	30-70HE/50	5U-7UNE/5UF	30-30/50	SU-50/5UF	SU-00/5U	SU-00/5UF	SU-0775U	30-07/5UF	30-80/50	SU-5075U	5U-5U/5UF	30-60750	30-0075UF	30-67750	3U-6775UF	

('1) DLP™, DarkChip3™ and BrilliantColor™ are trademarks of Texas Instruments.

('2) Depending on configuration and environment. The maximum screen-to-screen gap size is recommended for large display walls to allow for screen expansion due to heat and humidity.

('3) The lifetime of LED light source is an estimated value, not guaranteed. The estimated lifetime: Temperature condition during operation is 77°F/25°C. At 95°F/35°C, LED lifetime in Bright mode is 60,000hr.

Optional Cross-lenticular Screen upon special request

•																						
Abbreviated model name with optional	al Cross-lenticular Screen	62WE78L	62WEF78L	72WE78L	72WEF78L	60HE78L	60HEF78L	70HE78L	70HEF78L	50PE78L	50PEF78L	60PE78L	60PEF78L	67PE78L	67PEF75L	80PE78L	50XE74L	50XEF74L	60XE74L	60XEF74L	67XE74L	67XEF74L
Model number for optional Cros	ss-lenticular Screen	SC-62WE75L	SC-62WE75LF	SC-72WE75L	SC-72WE75LF	SC-60HE75L	SC-60HE75LF	SC-70HE75L	SC-70HE75LF	SC-5075L	SC-5075LF	SC-6075L	SC-6075LF	SC-6775L	SC-6775LF	SC-8075L	SC-5075L	SC-5075LF	SC-6075L	SC-6075LF	SC-6775L	SC-6775LF
	Bright mode 590cd/m² (Typ.)		m² (Typ.)	440cd/	m² (Typ.)	590cd/r	590cd/m² (Typ.) 440cd/m²		/m² (Typ.)	800c d/m² (Typ.)		560cd/m² (Typ.)		450cd/m² (Typ.)		320cd/m² (Typ.)	430cd/m² (Typ.)		300cd/m² (Typ.)		240cd/m² (Typ.)	
Brightness with optional	Normal mode	410cd/	m² (Typ.)	310cd/	m² (Typ.)	410cd/r	m² (Typ.)	310cd/	/m² (Typ.)	560c d/	m² (Typ.)	390cd/i	m² (Typ.)	310cd/r	n² (Typ.)	220cd/m² (Typ.)	330cd/i	m² (Typ.)	230cd/r	m² (Typ.)	180cd/i	m² (Typ.)
Cross-lenticular Screen	Eco mode	280cd/	m² (Typ.)	210cd/	m² (Typ.)	280cd/r	m² (Typ.)	210cd/	/m² (Typ.)	380c d/	m² (Typ.)	260cd/i	m² (Typ.)	210cd/r	n² (Typ.)	150cd/m² (Typ.)	240cd/r	m² (Typ.)	160cd/r	m² (Typ.)	130cd/i	m² (Typ.)
	Advanced Eco mode	90cd/r	m² (Typ.)	65cd/r	m² (Typ.)	90cd/n	n² (Typ.)	65cd/r	m² (Typ.)	150c d/	m² (Typ.)	100cd/r	m² (Typ.)	85cd/m	n² (Typ.)	60cd/m² (Typ.)	70cd/n	n² (Typ.)	50cd/m	n² (Typ.)	40cd/n	n² (Typ.)
Viewing angle with optional	Horizontal 1/2 gain: ±35 deg, 1/10 gain: ±57 deg																					
oroge lontiquiar coroon										4 /0	00 -1 4/40	. F.Fl										

			Descri	Life								
	Screen size	\vdash	Resolution									
Model	(inches)	WUXGA (1920 x 1200)	Full HD (1920 x 1080)	SXGA+ (1400 x 1050)	XGA (1024 x 768)	Front access						
62WE78	62	0										
62WEF78	62	0				0						
72WE78	72	0										
72WEF78	72	0				0						
60HE78	60		0									
60HEF78	60		0			0						
70HE78	70		0									
70HEF78	70		0			0						
50PE78	50			0								
50PEF78	50			0		0						
60PE78	60			0								
60PEF78	60			0		0						
67PE78	67			0								
67PEF78	67			0		0						
80PE78	80			0								
50XE74	50				0							
50XEF74	50				0	0						
60XE74	60				0							
60XEF74	60				0	0						
67XE74	67				0							
67XEF74	67	· ·		· '	0	0						

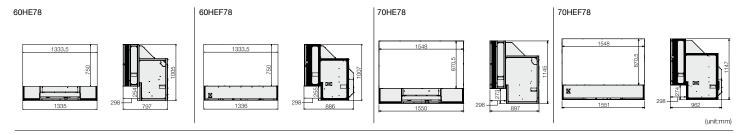
Digital/Analog RGB inpu	ıt board (option	OCETALANALO DI 1 OCETALANALO DI 1 OCETALANALO DI 12 OCETALANALO DI									
Model number		VC-B70DA2									
Signal input terminal		DVI-I (digital with HDCP, analog) x 2									
	Signal resolutions	VGA (640 x 480) - WUXGA (1920 x 1200)									
RGB input scanning frequency	Horizontal	31.5 - 92kHz									
	Vertical	49 – 85Hz									
Pixel clock rate		25 - 162MHz									
Sigal format		TMDS									
		Shrink and zoom (scaling)									
Functions		Frame rate conversion									
Functions		Digital cable equalizer function (Max. 50m									
		depending on the quality of equipment and cable)									
This board can be used for WE/P	F78 models.										

rd (option)	AAAA,OO N 1 AAAA,OO N 2 OO O								
	VC-B70G2								
RGB)	5BNC x1, HD D-sub 15 pins x1								
Signal resolutions	VGA (640 x 480) - WUXGA (1920 x 1200)								
Horizontal	31.5 - 92kHz								
Vertical	49 - 85Hz								
	25 - 162MHz								
	Image scaling (shrink and zoom) Frame rate conversion								
	RGB) Signal resolutions Horizontal								

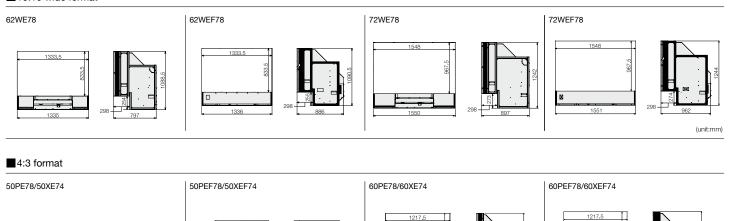
Video input board (option)	O O O O O O O O O O O O O O O O O O O
Model number	VC-B70V2
Signal input terminal (analog video)	3BNC x2
Analog video input signals	NTSC, NTSC4.43, PAL, PAL-M, PAL-N PAL-60, SECAM
Functions	Image scaling (shrink and zoom) Frame rate conversion

*The specifications are subject to change without notice. 6

16:9 wide format



16:10 wide format





*The design and measurements are subject to change without notice.

*All pictures shown are for illustrative purposes only.



for a greener tomorrow

Eco Changes is the Mitsubishi Electric Group's environmental statement, and expresses the Group's stance on environmental management. Through a wide range of businesses, we are helping contribute to the realization of a sustainable society.

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