Panasonic



Outstanding Brightness for Multi-Screen Presentations

- Newly-developed optical system delivers ultra-bright 7000 ANSI lumens
- Superior re-sizing and digital processing for outstanding moving pictures
- Built-in multi-screen edge blending technology
- Abundant options for versatile system configurations
- Low-noise design
- Motorized focus for easy set up



Sophisticated Multi-Screen Projection

anasonic's DLP™ projectors for large venues earned wide acclaim for their brightness, high image quality, and easy operation. Now they are joined by the newest members of Panasonic's DLP™ projector family-the PT-D8600E, SXGA and PT-D8500E, XGA-that inherit the same superb functions and add new features that make it easy to project high-quality images on multiple screens. The new PT-D8600E and PT-D8500E are fully equipped for either permanent or event applications, and are ideal for convention halls. sports arenas, control centres, and post-production display for digital cinema.



Digital Light Processing, DLP, Digital Micromirror Device and DMD are trademarks of Texas Instruments Incorporated.



High Brightness, Suberb Quality

7000 ANSI lumens

The PT-D8600E and PT-D8500E features a DLP[™] system equipped with three Digital Micromirror Device (DMD[™]) chips. This, together with Panasonic's original optical system and 1,200-W xenon lamp, achieves 7,000 ANSI lumens of brightness. Contrast is as high as 450:1. The xenon lamp reproduces natural colours and stunning brightness.

High-efficiency optical system

Panasonic's unique optical system is highly efficient, using lamp light with minimal waste. Thanks to a highly condensing dual reflector system and a wi



Dual reflector lamp system

system and a wide convergence angle, the

PT-D8600E and PT-D8500E offer a very bright light source housed in a compact package.

UFC for faithful moving pictures

Each projector is equipped with Panasonic's Emmy Award-winning universal format converter (UFC), a high-precision digital filter that greatly improves the moving image smoothness. Projected images move smoothly and naturally, and viewers cannot perceive individual pixels.



original UFC chip

Digital Filter Comparison



Panasonic's high-precision digital filter converts formats with a level of smoothness that is suitable for moving picture signals.

Digital processing

The PT-D8600E and PT-D8500E incorporate a host of Panasonicdeveloped video-processing technologies designed to ensure superior reproduction of moving pictures from a variety of sources. The built-in **digital detail enhancer** checks and corrects the quality of 368,000 pixels in each image to improve sharpness and clarity. The **digital cinema reality** circuit provides progressive processing optimized for a 24-frames/sec



Digital cinema reality circuit preserves full image quality as it converts each frame of a movie source to TV signals.

moving source, helping to reproduce the image with quality faithful to the original.

- Full compatibility with digital format (optional)
- High resolution: PT-D8600E: SXGA native, UXGA max., PT-D8500E: XGA native, UXGA max.

Multi-Screen

Colour matching

When several PT-D8600E or PT-D8500E units are used together, this function corrects for slight



slight Colour-matching software variations in the colour reproduction range of individual units. The PC software assures easy, accurate control. To simplify the setup process, you can adjust the units before delivery to the installation site. The colour-matching function is available (for up to 9 units) even when you're not conducting a multiscreen presentation.

Edge blending

This function controls the brightness at overlapping image edges to assure uniform, natural-looking multiscreen images.

With edge blending



Without edge blending

Built-in multi-screen processor The PT-D8600E and PT-D8500E can

project large, multi-screen images without any additional equipment. Up to 100 units (10 x 10) can be used at a time.



The built-in multi-screen processor enables enlarged multi-screen projection without using any additional special equipment. Colour matching and edge blending make it easier to obtain proper multi-screen picture quality.

Abundant Options

Lenses

A wide variety of optional lenses allow the user to project wide-screen images—100 to 600 inches diagonally— to accommodate a range of site conditions. Options include three types of zoom lenses and one fixed short-focus lens.

Boards

Each model is equipped with an RGB/YPBPR input board. In addition, up to three optional input board modules can be installed to match a variety of input source signals, including digital serial component signals.

Installation

A ceiling bracket is available as an option. The dual stacking mount bracket allows the user to assemble a system that provides brightness of up to 14,000 ANSI lumens. The lens axis shift function helps eliminate image distortion by allowing the precise positioning of the projected images.

Low Noise Design

The PT-D8600E's and PT-D8500E's special acoustic design achieves a significant reduction in cooling fan noise. Its hermetically sealed cabinet and centralized exhaust duct combine to give your presentations a pleasant, serene environment.

Other Features

- Auto setup
- Digital keystone correction
- Parallel remote connector
- RS-232C/RS-422 remote in/out connectors
- Wireless/wired remote control
- Motorized focus
- Ceiling/floor, front/rear projection

What is a Digital Light Processing (DLP[™]) Projector?

DLP[™] projector builds A images on screen by digitally controlling the reflected angle of incident light, converging it with a prism and passing the image through a lens onto the screen. To control the incident light, it uses a Digital Micromirror Device (DMD[™]) made up of many 16 x 16 µm metallic mirrors arranged on a silicon chip. The PT-D8600E and PT-D8500E have three DMD[™] chips. This 3-chip system is better suited for natural rendition in brilliant colours. Because reflectance is higher than with LCD projectors, light is used more efficiently for higher brightness. With a narrow dot-todot space, it can smoothly reproduce both natural images and sharply contoured computer graphics.



Digital Micromirror Device

Overlapping image edges

Specifications .

Power supply: Power consumption:	200–240 V AC, 50/60 Hz 1 900 W (1 900 VA)(2 8 W at	Horizontal: 8:2–2:8 (powered)		
i onoi oonounpuon	standby mode)	motananom	selection)	
Colour system:	PAL/PAL-M/PAL-N/NTSC/	Noise level:	vel: 43 dB	
	M-NTSC/SECAM (with	Keystone correction:	±10°	
	optional ET-MD95VM2)	Terminals:		
Scanning frequency:		RGB/YPBPR:	BNC x 5	
RGB:	fH 15–100 kHz, fv 24–120 Hz	G:	0.7 Vp-p (1.0 Vp	o-p for Sync on
	Bandwidth: 162 MHz		G), 75 Ω	
YPBPR: 480i:	th 15.75 kHz, tv 60 Hz	R, B:	0.7 Vp-p, 75 Ω	
5/61:	TH 15.63 KHZ, TV 50 HZ	HD/SYNC, VD:	0.6-4.0 Vp-p, nign impedance	
480p: 720/40p.		VDpDp	(positive/negative polarit	
720/60p:	H 43/44.933 KΠZ, fy 60/50 04 Hz	TPBPR:	1: 1.0 vp-p, 75 Vn n 75 O	22, PB/PR: ±0.55
1025/60i-	fu 22 75/22 716 kHz	DS 2220//22 IN-	νμ-μ, 73 <u>52</u> D sub 0 nin v 1	(for ovtornal
1033/001.	fv 60/50 0/ Hz	K3-2326/422 IN.	control)	(IUI EXICITIAI
1080/50i	fu 28 125 kHz fv 60 Hz	RS-232C/422 OUT:	D-sub 9-nin x 1	(for external
1080/60i	fH 33 75/33 716 kHz	K3 2320/422 001.	control)	(ior external
1000/001.	fv 50/59.94 Hz	REMOTE 1:	D-sub 9-pin x 1	(for external
1080/24p;	fH 27/26.973 kHz.		control)	(
	fv 24/23.976 Hz	REMOTE 2:	M3 jack x 1 (for	wired remote
Video/S-Video:	PAL/PAL-N/SECAM:		control)	
	fн 15.63 kHz, fv 50 Hz	Power cord length:	2.5 m (8´2´´)	
	PAL-M/NTSC/M-NTSC:	Cabinet material:	Aluminum + PP	E plastic
	fн 15.75 kHz, fv 60 Hz	Dimensions	680 x 390 x 973	3 mm
DMD™:	0.9 [°] (diagonal) DMD [™] (x 3),	(W x H x D):	(26-3/4° x 15-11	/32" x 38-5/16")
	DLP [™] system	weight:	80 Kg (1/6.4 lbs	5.) 0.4%E\
PIXEIS: PI-D86001	1,310,720 (1,280 X 1,024) X 3	Operating temperature	: 0°-40°C (32°-1	U4 ⁻ F) E°E) at high mode
PI-D0300	1. /00,432 (1,024 X /00) X 3	Operating humidity:	0 - 30 C (32 - 9)	ordoncation)
Lons.	A.5 (10.7 companie)	Safety regulations:		k CB cortificato
Lamn.	1 200 W xenon lamn	Salety regulations.	EN55022 Cl	ASS B FN55024
Lamp life:	1,500 hours (at normal mode)	Supplied accessories:	Wireless/wired	emote control
	1.000 hours (at high mode)	eappilea accession	unit. Batteries for remote	
Colours:	Full colour (16,777,216 colours)		control unit. Remote control	
Brightness:	7000 ANSI lumens (at high		cable	
•	mode)	Optional accessories:		
	6000 ANSI lumens (at normal	Replacement	lamp unit:	ET-LAD8500
	mode)	Ceiling moun	t bracket:	EI-PKD95
Uniformity (CCR):	More than 90%	Dual stacking	mount bracket:	EI-DFD95
Contrast ratio:	450:1 (all white/all black)	Zoom lens (1	.5-2.5:1):	
Resolution:	- 1200 v 1024 pixels	Zoom lons (4	.5-4.0.1).	ET-D95LE2
	1024 y 769 pixels	Fixed short fo	Fixed short focus lens (0.8-1): FT-D95LES	
Video.	560 TV lines (with ontional	Video/S-Video	Video/S-Video/YCBCR input board:	
video.	FT-MD95VM2)			ET-MD95VM2
Screen size:	100 [°] -600 [°] diagonal (aspect ratio:	SDI (480i/576	i) input board:	ET-MD95SD1
	4:3)	SDI (480i/576	480i/576i/480p) input board:	
	100 [~] –180 [~] diagonal with	,	ET-MD95SD2	
	ET-D95LE9 (aspect ratio: 4:3)	SDI (720p/10	035i/1080i/1080-24p) input board	
Lens shift:			ET-MD95SI	
Vertical:	10:0-0:10 (powered)	IMDS input b	ooard:	ET-MD951

Projection setting examples

- Projection distance between the screen and the centre of the front feet of the projector. Height from the edge of screen to centre of L: H:
 - lens.
- E1: Height from the lower edge of screen to centre
- of lens. E2: Height from the upper edge of screen to centre of lens. upper: PT-D8600E lower: PT-D8500E

Screen size	e L						н				
							E1		E2		
	zoom				fixed	zoom	fixed	zoom	fixed		
	ET-D95LE1		ET-D95LE2		ET-D95LE1		ET- D95LE9	ET-D95LE1/ D95LE2/	ET- D95LE9	ET-D95LE1/ D95LE2/	ET- D95LE9
	min.	max.	min.	max.	min.	max.		D95LE3		D95LE3	
100″	3,145 3,261	5,006 5,197	5,078 5,270	7,915 8,221	7,887 8,196	13,603 14,142	2,316 2,398	0–1,587 0–1,524	793 762	01,587 01,524	-793 -762
150″	4,610 4,784	7,426 7,713	7,504 7,792	11,791 12,251	11,793 12,257	20,418 21,227	3,348 3,471	0-2,380 0-2,286	1,190 1,143	02,380 02,286	-1,190 -1,143
200″	6,075 6,307	9,846 10,229	9,929 10,314	15,667 16,281	15,700 16,318	27,233 28,312	-	0-3,173 0-3,048	-	03,173 03,048	-
250″	7,540 7.830	12,267 12,745	12,355 12.835	19,543 20,310	19,606 20,379	34,049 35,397	_	0-3,967 0-3,810	_	03,967 03,810	-
300″	9,005 9,353	14,687 15,261	14,781 15,357	23,420 24,340	23,513 24,440	40,864 42,482	-	0-4,760 0-4,572	-	04,760 04,572	-
400″	11,935 12,399	19,527 20,293	19,633 20,401	31,172 32,399	31,326 32,562	54,494 56,651	-	0-6,347 0-6,096	-	06,347 06,096	_
500″	14,866 15,455	24,368 25,325	24,485 25,445	38,925 40,458	39,139 40,684	68,125 70,821	-	0-7,934 0-7,620	-	07,934 07,620	_
600″	17,796 18,491	29,209 30,357	29,336 30,488	46,677 48,517	46,951 48,806	81,756 84,991	-	0–9,520 0–9,144	-	09,520 09,144	-
											unit: mm

Options _

Lenses -
ET-D95LE1
Zoom lens
(1.5-2.5 : 1)
ET-D95LE2
(2.5-4.0 : 1)
Zoom lens
(4.0-7.0 : 1)
ET-D95LE9
Fixed short focus lens
Projectors need modification to attach the ET-D95LE9.
Boards
ET-MD95VM2
Video/S-Video/YCBCR input board
C LINE OF A LINE OUT YIN CICLIN C
ET-MD95SD1
SDI (480i/576i) input board
SERIAL
ET-MD95SD2 SDI (480i/576i/480p) input board
HIGH BASHER TWI-MOSSED
ET-MD95SD3
SDI (720p/1035i/1080i/1080-24p) input board
ET-MD95T
TMDS input board
/ ° . °)
TINDS TWO ASA'
Brackets
Ceiling mount Dual stacking mount
bracket bracket
Lown
EI-LAD8500 Replacement lamp unit
1 Alexandree and 1 Alex

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