

# Panasonic

ideas for life

PRELIMINARY  
As of June 2010

Available from summer 2010

## DZ8700 Series

3-Chip DLP™ Projectors

### A Bright 10,600 lm<sup>\*1</sup> in a Compact Body



PT- <b>DZ8700U</b>	PT- <b>DS8500U</b>	PT- <b>DW8300U</b>
10,600 lm	10,600 lm	9,600 lm
WUXGA (1920 × 1200)	SXGA+ (1400 × 1050)	WXGA (1366 × 768)
HD/SD-SDI input	HD/SD-SDI input	-
Geometric adjustment	Geometric adjustment	-

#### Brightness and Picture Quality

- Panasonic's original dual-lamp system, with its new 355-W lamp, has helped to make the body as compact as Panasonic's original PT-D7700U Series, while providing a full 10,600 lm<sup>\*1</sup> of brightness with 120-VAC operation.
- The new dynamic iris achieves a high contrast ratio of 10,000:1.
- Detail Clarity Processor 3 brings depth and clarity to details.
- System Daylight View 2 for enhanced color perception.
- A waveform monitor function enables easy adjustment of black and white levels. (PT-DZ8700U)
- The DICOM Simulation mode reproduces easy-to-view rendering of X-ray photos.<sup>\*2</sup>

#### Reliability and Stability

- Panasonic's original Dual Lamp System eliminates the interruption if a lamp should fail (in

dual-lamp operation mode). The Lamp Relay mode also operates the lamps alternately to enable 24/7 projection. Operation is possible in temperatures up to 113°F/45°C.<sup>\*3</sup> A dust-resistant optical block is also employed. These features combine to ensure high reliability.

- The Auto Cleaning Filter (ACF) eliminates the need to clean the air filter for up to 10,000 hours.<sup>\*4</sup>



#### Enhanced Installation Flexibility

- A lens-centered design, a wide range of optional lenses, powered H/V-lens shift, and flexible vertical 360-degree installation enable smooth flexibility for use in various locations.
- The Multi-Unit Brightness Control function automatically adjusts and controls brightness variation over multiple screens.
- The Multi-Screen Support System optimally adjusts multiple screens.
- The Geometric Adjustment function lets you project images onto specially shaped screens

without distortion. (PT-DZ8700U/DS8500U)

- Versatile interfaces are provided, including an HD/SD-SDI input terminal (except the PT-DW8300U) and an HDMI input terminal.
- Multi Projector Monitoring & Control Software allows multiple projectors to be managed together over a wired LAN.
- Direct Power Off lets you directly shut off the power supply breaker.
- A Scheduling function enables timed operation using only the projector controls.
- Picture in Picture lets you flexibly control the layout of two windows for a wide variety of presentations.
- Environment-friendly, low standby power consumption of 0.2 W (Standby mode: eco)

<sup>\*1</sup> The PT-DW8300U has 9,600 lm of brightness.

<sup>\*2</sup> This product is not a medical instrument. Do not use it for actual medical diagnosis.

<sup>\*3</sup> The operating temperature is 32°F to 104°F (0°C to 40°C) when the fan control is set to High Altitude mode (for over 4,593 feet (1,400 m) to 8,858 feet (2,700 m) above sea level).

<sup>\*4</sup> The replacement cycle given here is a guideline. It may be shorter depending on the usage environment.

## Specifications (Tentative)

Model	PT-DZ8700U	PT-DS8500U	PT-DW8300U
Power supply	120 V AC, 10 A, 60 Hz		
Power consumption	970 W (1,000 VA) (Standby mode eco*: 0.2 W, standby mode normal: 6 W. Both with fan stopped.)		
DLP™ chip	0.96-inch diagonal (16:10 aspect ratio) DLP™ chip x 3 (R, G, B), DLP™ projection system 2,304,000 (1,920 x 1,200) x 3, total of 6,912,000 pixels	0.95-inch diagonal (4:3 aspect ratio) DLP™ chip x 3 (R, G, B), DLP™ projection system 1,470,000 (1,400 x 1,050) x 3, total of 4,410,000 pixels	0.85-inch diagonal (16:9 aspect ratio) DLP™ chip x 3 (R, G, B), DLP™ projection system 1,049,088 (1,366 x 768) x 3, total of 3,147,264 pixels
Lens	Optional powered zoom/focus lenses		
Lamp	355 W UHM lamp x 2 (dual lamp system)		
Projection size	70–600 inches, 16:10 aspect ratio (70–300 inches with the ET-D75LE5, 16:10 aspect ratio)	70–600 inches, 4:3 aspect ratio (70–300 inches with the ET-D75LE5, 4:3 aspect ratio)	70–600 inches, 16:9 aspect ratio (70–300 inches with the ET-D75LE5, 16:9 aspect ratio)
Brightness*2	10,600 lm (dual lamp, high mode)		9,600 lm (dual lamp, high mode)
Center-to-corner uniformity*2	90 %		
Contrast*2	10,000:1 (full on/full off, in dynamic iris 3 mode)		
Resolution	1,920 x 1,200 pixels	1,400 x 1,050 pixels (Input signals that exceed this resolution will be converted to 1,400 x 1,050 pixels.)	1,366 x 768 pixels (Input signals that exceed this resolution will be converted to 1,366 x 768 pixels.)
Scanning frequency	HDMI/DVI-D 480p, 576p, 720/60p, 720/50p, 1080/60i, 1080/50i, 1080/24p, 1080/24sF, 1080/25p, 1080/30p, 1080/60p, 1080/50p VGA (640 x 480)–WUXGA*3 (1,920 x 1,200), compatible with non-interlaced signals only, dot clock: 25–162 MHz fh: 15 kHz–100 kHz, fv: 24 Hz–120 Hz, dot clock: 20 MHz–162 MHz RGB YPbPr (YCbCr) fh: 15.75 kHz, fv: 60 Hz [480/60i] / fh: 31.50 kHz, fv: 60 Hz [480/60p] / fh: 15.63 kHz, fv: 50 Hz [576/50i] fh: 31.25 kHz, fv: 50 Hz [576/50p] / fh: 37.50 kHz, fv: 50 Hz [720/50p] / fh: 45.00 kHz, fv: 60 Hz [720/60p] fh: 33.75 kHz, fv: 60 Hz [1035/60i] / fh: 33.75 kHz, fv: 60 Hz [1080/60i] / fh: 28.13 kHz, fv: 50 Hz [1080/50i] fh: 28.13 kHz, fv: 25 Hz [1080/25p] / fh: 27.00 kHz, fv: 24 Hz [1080/24p] / fh: 27.00 kHz, fv: 48 Hz [1080/24sF] fh: 33.75 kHz, fv: 30 Hz [1080/30p] / fh: 67.50 kHz, fv: 60 Hz [1080/60p] / fh: 56.25 kHz, fv: 50 Hz [1080/50p] Video/S-Video fh: 15.75 kHz, fv: 60 Hz [NTSC/NTSC4.43/PAL-M/PAL60] / fh: 15.63 kHz, fv: 50 Hz [PAL/PAL-N/SECAM]		
Optical axis shift	Vertical ±55% from center of screen (powered) (±44% with the ET-D75LE6)	±50% from center of screen (powered) (±40% with the ET-D75LE6)	±70% from center of screen (powered) (±60% with the ET-D75LE6)
	Horizontal ±20% from center of screen (powered) (±15% with the ET-D75LE6)	±30% from center of screen (powered) (±20% with the ET-D75LE6)	±30% from center of screen (powered) (±20% with the ET-D75LE6)
Installation	Ceiling/floor, front/rear		
Terminals	SDI IN BNC x 1: SD-SDI signal (YCbCr 4:2:2 10-bit): SMPTE 259M compliant: 480i, 576i Single-link HD-SDI signal (YPbPr 4:2:2 10-bit): SMPTE 292M compliant: 720/50p, 720/60p, 1035/60i, 1080/50i, 1080/60i, 1080/25p, 1080/24p, 1080/24sF, 1080/30p		—
	HDMI IN HDMI 19-pin x 1 (Deep Color, compatible with HDCP, 480p, 576p, 720/60p, 720/50p, 1080/60i, 1080/50i, 1080/24p, 1080/24sF, 1080/25p, 1080/30p, 1080/60p, 1080/50p (non-interlaced signals only), VGA (640 x 480)–WUXGA*2 (1,920 x 1,200), dot clock: 25–162 MHz		
	DVI-D IN DVI-D 24-pin x 1 (DVI 1.0 compliant, compatible with HDCP, compatible with single link only, 480p, 576p, 720/60p, 720/50p, 1080/60i, 1080/50i, 1080/24p, 1080/24sF, 1080/25p, 1080/30p, 1080/60p, 1080/50p, VGA (640 x 480)–WUXGA*3 (1,920 x 1,200), compatible with non-interlaced signals only, dot clock: 25–162 MHz		
	RGB 1 IN BNC x 5 (RGB/YPbPr/YCbCr x 1)		
	RGB 2 IN D-Sub HD 15-pin (female) x 1 (RGB/YPbPr/YCbCr x 1)		
	VIDEO IN BNC x 1 (composite video)		
	S-VIDEO IN Mini DIN 4-pin x 1 (S-Video)		
	SERIAL IN D-sub 9-pin (female) x 1 (for external control, RS-232C compliant)		
	SERIAL OUT D-sub 9-pin (male) x 1 (for link control, RS-232C compliant)		
	REMOTE 1 IN M3 jack x 1 (for wired remote control)		
	REMOTE 1 OUT M3 jack x 1 (for link control)		
	REMOTE 2 IN D-sub 9-pin (female) x 1 (for external control, contact control)		
	LAN RJ-45 x 1 (for network connection, 10Base-T/100Base-TX, compliant with PLink™)		
Cabinet materials	Molded plastic		
Dimensions (W x H x D)	20-7/8 x 7-7/8 x 21-19/32 inches (530 x 200 x 548.5 mm) (with legs at shortest position, optional lens not included)		
Weight	Approximately 52.9 pounds (24 kg) (optional lens not included)		
Operating environment	Operating temperature: 32°F–113°F (0°C–45°C)*4, operating humidity: 10%–80% (no condensation)		
Supplied accessories	Power cord with security lock, wireless/wired remote control unit, batteries for remote control (AA-type x 2), safety wire rope		

\*1 In Standby mode eco, LAN-based network functions, such as the standby ON function, and the serial output terminal will not operate. \*2 Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards. \*3 WUXGA resolution is supported only when the signals are compliant with VESA CVT-RB (Coordinated Video Timing-Reduced Blanking). \*4 The operating temperature is 32°F to 104°F (0°C to 40°C) when the fan control is set to High Altitude mode (for over 4,593 feet (1,400 m) to 8,858 feet (2,700 m) above sea level).

## Optional accessories

- Zoom lens (ET-D75LE6)
- Zoom lens (ET-D75LE10)
- Zoom lens (ET-D75LE20)
- Zoom lens (ET-D75LE30)
- Zoom lens (ET-D75LE4)
- Zoom lens (ET-D75LE8)
- Fixed-focus lens (ET-D75LE5)
- Lens motor cover (ET-D75MC1)
- High-ceiling mount bracket (ET- PKD310H)
- Low-ceiling mount bracket (ET- PKD310S)
- Attachment plate (ET-PAD310)
- Frame (ET-PFD310)
- Smoke cut filter (ET-SFD310)
- Replacement ACF unit (ET-ACF310)
- Replacement lamp unit (ET-LAD310)
- Replacement lamp units (twin pack) (ET-LAD310W)

## Optional lens throw ratios

	PT-DZ8700U	PT-DS8500U	PT-DW8300U
ET-D75LE6	0.9–1.1:1	1.0–1.2:1	1.0–1.2:1
ET-D75LE10	1.3–1.7:1	1.4–1.8:1	1.4–1.9:1
ET-D75LE20	1.7–2.4:1	1.8–2.6:1	1.8–2.7:1
ET-D75LE30	2.4–4.7:1	2.6–5.1:1	2.7–5.2:1
ET-D75LE4	4.6–7.4:1	5.0–8.0:1	5.2–8.2:1
ET-D75LE8	7.3–13.8:1	7.9–15.0:1	8.2–15.4:1
ET-D75LE5	0.7:1	0.8:1	0.8:1

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