



# Panasonic DLP Projector

**Panasonic®**



## Operating Instructions

3-chip DLP®-based Projector

Commercial Use

Models No. **PT-D12000E**  
**PT-DZ12000E**



Read these instructions completely before operating this unit.

TQBJ 0284-1

## Installation (continued)

### Adjusting the feet

The four adjustable feet (p. 14) mounted at the bottom of the projector are level-adjustable (0 mm–15 mm) which can be used when the floor surface is not horizontal.



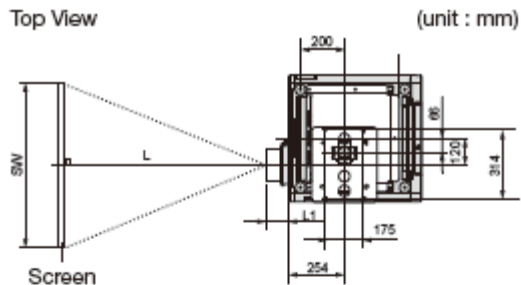
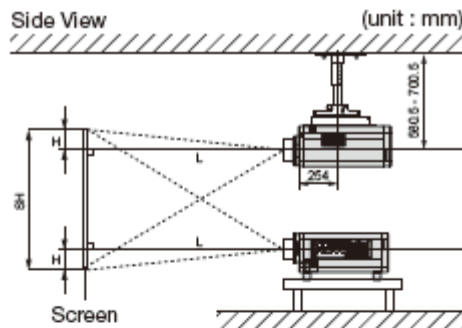
### Projection scheme

This projector can use any of the four projection schemes. Select the most suitable scheme to the situation of your location. Use the INSTALLATION menu to choose the desired projection scheme. (p. 78)

### Installation geometry

When planning the projector and screen geometry, refer to the figures below and the information on the next page for reference. After the projector is roughly positioned, picture size and vertical picture positioning can be finely adjusted with the powered zoom lens and lens shifting mechanism.

● When attaching an optional ceiling mount bracket (ET-PKD100H)



L	Projection distance
SH	Height of the image
SW	Image width
H	Vertical distance between the lens centre level and the bottom edge of the projected image

Lens	Dimension of L1 (Approx.)
ET-D75LE1	62.5
ET-D75LE2	47
ET-D75LE3	50.5
ET-D75LE4	74.4
ET-D75LE5	150.5
ET-D75LE6	160
ET-D75LE8	202.5

- \* For PT-D12000E:  $H = 0$  to  $SH$
- For PT-DZ12000E:  $H = -0.1 \times SH$  to  $1.1 \times SH$
- \* However, if the ET-D75LE5 has been installed, the value will be fixed at  $H=SH/2$  for both the PT-D12000E and PT-DZ12000E. If the ET-D75LE6 has been installed, the values will be  $H = 0.1 \times SH$  to  $0.9 \times SH$  for the PT-D12000E, and  $H = 0$  to  $SH$  for the PT-DZ12000E.

# Specifications

Model No.		PT-D12000E	PT-DZ12000E
Power supply		220 V – 240 V, 50 Hz/60 Hz	
Power consumption		1 500 W (about 15 W in standby)	
Amps		9.5 A	
DLP* Chip	Panel size	0.95 inch (aspect ratio 4:3)	0.96 inch (aspect ratio 16:10)
	Display system	Three-unit DLP* chip, DLP* type	
	Number of pixels	3 × 1 470 000 pixels (1 400 × 1 050 dots)	3 × 2 304 000 pixels (1 920 × 1 200 dots)
Lens (Powered zoom/ Powered focus control)		Option	
Projection lamp		4 bulbs × 300 W UHM lamp	
Optical output*		12 000 lm (ANSI)	
Applicable scanning frequency	For video signal (S-video included)	Horizontally 15.75 kHz/15.63 kHz, vertically 60 Hz/50 Hz	
	For RGB signal	Horizontally 15 kHz–100 kHz, vertically 24 Hz–120 Hz, Panasonic Intelligent Auto Scanning (PIAS) system	
		Dot clock frequency 20 MHz–162 MHz	
	For DVI-D signal	480p, 576p, 720/60p, 720/59.94p, 720/50p, 1 080/60p, 1 080/59.94p, 1 080/50p, 1 080/60i, 1 080/59.94i, 1 080/50i, 1 080/24sF, 1 080/23.98sF, 1 080/30p, 1 080/29.97p, 1 080/25p, 1 080/24p, 1 080/23.98p	Displayable resolution : VGA-WUXGA (non-interlace) Dot clock frequency : 25 MHz–162 MHz • The WUXGA signals support only VESA CVT-RB (Reduced Blanking) signals.
For YPbPr signal	[480i] horizontally 15.73 kHz, vertically 59.94 Hz [480p] horizontally 31.5 kHz, vertically 59.94 Hz [576i] horizontally 15.63 kHz, vertically 50 Hz [576p] horizontally 31.25 kHz, vertically 50 Hz [720/50p] horizontally 37.5 kHz, vertically 50 Hz [720/60p] horizontally 45 kHz, vertically 60 Hz [1 035/60i] horizontally 33.75 kHz, vertically 60 Hz [1 080/60i] horizontally 33.75 kHz, vertically 60 Hz [1 080/50i] horizontally 28.13 kHz, vertically 50 Hz [1 080/24p] horizontally 27 kHz, vertically 24 Hz [1 080/30p] horizontally 33.75 kHz, vertically 30 Hz [1 080/25p] horizontally 28.13 kHz, vertically 25 Hz [1 080/24sF] horizontally 27 kHz, vertically 48 Hz [1 080/60p] horizontally 67.5 kHz, vertically 60 Hz [1 080/50p] horizontally 56.25 kHz, vertically 50 Hz • HD/SYNC, VD terminals are not compliant with 3 value composite SYNC.		
Colour system		7 standards (NTSC/NTSC4.43/PAL/PAL-N/PAL-M/SECAM/PAL60)	
Screen size		70 inch–600 inch <sup>3</sup>	
Screen aspect ratio		4:3	16:10
Projection scheme		Menu-selectable from front/rear/ceiling mount, and floor mounting	
Contrast ratio (full white/full black)		5 000:1 (when "DYNAMIC IRIS" has been set to "3")	
Interface ports	Input module connection slot	One system	
	RGB1 input terminal	1 set, BNC × 5 [For YPbPr input] Y: 1.0 V [p-p] synchronization signal included, PbPr: 0.7 V [p-p] 75 Ω [For RGB input] 0.7 V [p-p] 75 Ω For G-SYNC: 1.0 V [p-p] 75 Ω HD/SYNC: 75 Ω, 1.4–5 Vp-p, positive/negative polarity automatically adjusted VD: 75 Ω, 1.4–5 Vp-p, positive/negative polarity automatically adjusted	

# Installation of input module (optional)

## Installing the input module

### ■ Types of the input modules (optional)

Prepare beforehand an input module (optional) compatible with the input signals of the system.

Module	Module model No.	Terminal	Signal formats supported
SD-SDI input module	ET-MD77SD1	BNC input × 1 BNC output × 1	SMPTE259M compliant : 480i, 576i
		RJ-45 input × 1 <sup>*1</sup>	10BASE-T/100BASE-TX
HD/SD-SDI input module	ET-MD77SD3	BNC input × 1 BNC output × 1	SMPTE259M compliant : 480i, 576i SMPTE292M compliant : 720/60p, 720/59.94p, 720/50p 1 035/60i, 1 035/59.94i, 1 080/60i, 1 080/59.94i 1 080/50i, 1 080/24sF, 1 080/23.98sF, 1 080/30p 1 080/29.97p, 1 080/25p, 1 080/24p, 1 080/23.98p
		RJ-45 input × 1 <sup>*1</sup>	10BASE-T/100BASE-TX
	ET-MD100SD4	BNC input × 2	Single link SD-SDI Signal : 480i, 576i Single link HD-SDI Signal (YPbPr 4:2:2) : 720/60p, 720/59.94p, 720/50p, 1 080/60i, 1 080/59.94i, 1 080/50i, 1 080/24sF, 1 080/23.98sF, 1 080/30p, 1 080/29.97p, 1 080/25p, 1 080/24p, 1 080/23.98p Dual link HD-SDI signal (RGB 4:4:4) : 1 920 × 1 080/50i, 1 920 × 1 080/59.94i, 1 920 × 1 080/60i, 1 920 × 1 080/23.98p, 1 920 × 1 080/23.98sF, 1 920 × 1 080/25p, 1 920 × 1 080/24p, 1 920 × 1 080/24sF, 1 920 × 1 080/29.97p, 1 920 × 1 080/30p Dual link HD-SDI signal (X' Y' Z' 4:4:4) : 2 048 × 1 080/23.98p, 2 048 × 1 080/23.98sF, 2 048 × 1 080/24p, 2 048 × 1 080/24sF
DVI-D input module	ET-MD77DV	DVI-D 24p input × 1	HDCP-compliant <sup>*2</sup> DVI-D single link, DVI 1.0 compliant 480p, 576p, 720/60p, 720/59.94p, 720/50p 1 080/60i, 1 080/59.94i, 1 080/50i, 1 080/24sF, 1 080/23.98sF 1 080/30p, 1 080/29.97p, 1 080/25p, 1 080/24p, 1 080/23.98p 1 080/60p, 1 080/59.94p, 1 080/50p Displayable resolution VGA - WUXGA <sup>*3</sup> (non-interface) Dot clock frequency 25 - 162 MHz
		RJ-45 input × 1 <sup>*1</sup>	10BASE-T/100BASE-TX

\*1: The LAN terminal of the input module (optional) cannot be used with the PT-D12000E/PT-DZ12000E. Use the LAN terminal that is provided as standard with the projector.

\*2: HDCP (High-bandwidth Digital Content Protection)

HDCP is a specification for encoding digital image signals which was developed to protect digital content. The DVI-D/HDMI output signals from the HDCP-compliant equipment have been encoded by the HDCP specifications to ensure content protection, but the DVI-D input module is capable of displaying the digital images properly since it complies with the HDCP specification.

\*3: The WUXGA signals support only VESA CVT-RB (Reduced Blanking) signals.