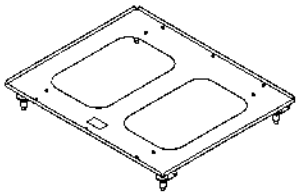
Panasonic

Dual Stacking Bracket for LCD Video Projectors (Plain Frame Version)



Installation / Adjustment Guide

Model No. ET-DFL6500P

■ To ensure maximum safety, carefully read the instructions throughout this manual. This product is designed exclusively for use with PT-L6500U / PT-L6600U, PT-L6500E / PT-L6600E Projectors.

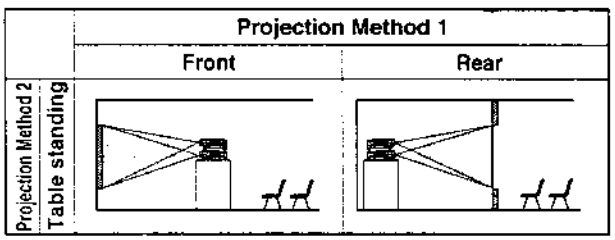
■ Dual Stacking Bracket (Plain Frame Version)

The Dual Stacking Bracket allows two LCD video projectors to be stacked above and below to provide enhanced image luminance.

- Maximum allowable load: 14 kg (30.9 lbs).

■ Projection Method

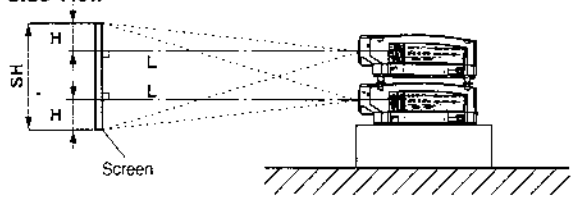
The Dual Stacking Bracket is designed for either front or rear projection methods, both in the table standing position. For more details on projection methods, read page 34 of the Instruction Manual supplied with the PT-L6500U / PT-L6600U, PT-L6500E / PT-L6600E Projector.



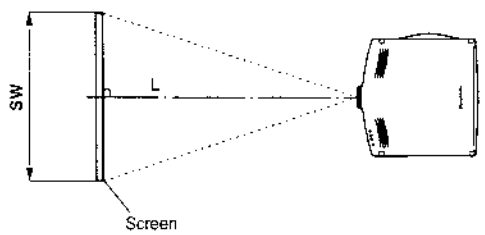
■ Installation Geometry

Install the projectors while referring to the following diagram:

Side View



Plan View



L : Projection distance
SH : Screen height
SW : Screen width
H : Distance from either lens axis to top or bottom edge of screen

■ Projection Distances

(PT-L6500U / PT-L6600U, PT-L6500E / PT-L6600E)

Unit : m ( ) : inch [ ] : foot

Screen Size (4 : 3)			Projection distance: L		Height position: H
Diagonal length	Height (SH)	Width (SW)	Wide (LW)	Telephoto (LT)	
2.54 (100")	1.52 [5']	2.03 [6'8"]	3.6 [11'10"]	4.9 [16'8"]	0.08 to 0.76 (2 53/64 to 29 56/64)
3.05 (120")	1.83 [6']	2.44 [8']	4.3 [14'1"]	5.9 [19'5"]	0.09 to 0.91 (3 37/64 to 35 53/64)
3.56 (140")	2.13 [7']	2.84 [9'4"]	5.1 [16'8"]	6.9 [22'7"]	0.11 to 1.06 (4 11/64 to 41 47/64)
4.06 (160")	2.44 [8']	3.25 [10'8"]	5.8 [19']	7.9 [25'11"]	0.12 to 1.21 (4 49/64 to 47 41/64)
4.57 (180")	2.75 [9']	3.66 [12']	6.6 [21'8"]	8.9 [29'2"]	0.14 to 1.37 (5 25/64 to 53 15/16)
5.08 (200")	3.05 [10']	4.06 [13'4"]	7.3 [24']	9.9 [32'6"]	0.15 to 1.52 (5 63/64 to 59 27/32)
5.51 (220")	3.35 [11']	4.47 [14'8"]	8.1 [24'7"]	10.9 [35'10"]	0.17 to 1.67 (6 9/16 to 65 3/4)
6.10 (240")	3.66 [12']	4.88 [16']	8.8 [28'11"]	11.9 [39']	0.18 to 1.82 (7 11/64 to 71 21/32)
6.60 (260")	3.96 [13']	5.28 [17'4"]	9.5 [31'2"]	12.9 [42'4"]	0.20 to 1.98 (7 51/64 to 77 61/64)
7.11 (280")	4.27 [14']	5.69 [18'8"]	10.3 [33'10"]	13.9 [45'7"]	0.21 to 2.13 (8 25/64 to 83 55/64)
7.62 (300")	4.57 [15']	6.10 [20']	11.0 [36'1"]	14.9 [48'11"]	0.23 to 2.28 (8 43/64 to 89 49/64)

Setting-up dimensions which are not given in the above table can be calculated using the formulas below.
If the screen size (diagonal) is SD, then the following formulas is first used to obtain the screen width (SW).

SW = (SD x 0.0254) x 4 ÷ 5 (SD unit is inches)

The value for SW obtained above can then be used with the following function to calculate the projection distance for the wide lens position (LW) and the projection distance for the telephoto lens position (LT).

LW = 1.831 x SW - 0.071

LT = 2.449 x SW - 0.066

For 16 : 9 aspect rations, the following formal can be used to calculate the screen width (SW).

SW = (SD x 0.0254) x 16 ÷ $\sqrt{327}$

Note

- The dimensions in the table above and the values obtained from the above formulas may contain slight errors.
- It is recommended that you use the projection distance for the wide lens position (except in cases where the diagonal picture size is 0.762 m [30"]).
- The above dimensions are the case when the aspect ratio is 4:3. When an SXGA signal is input and projected, the right and left ends of the picture will be blanked the aspect ratio will be 5:4.

Installation

1. Install the bottom projector first.

For projection distances and screen sizes, see the diagram on the previous page.

2. Remove the stack lids from the 4 corners:

Remove the 4 stack lids from the top panel of the bottom projector by sliding them in the direction of the arrows.

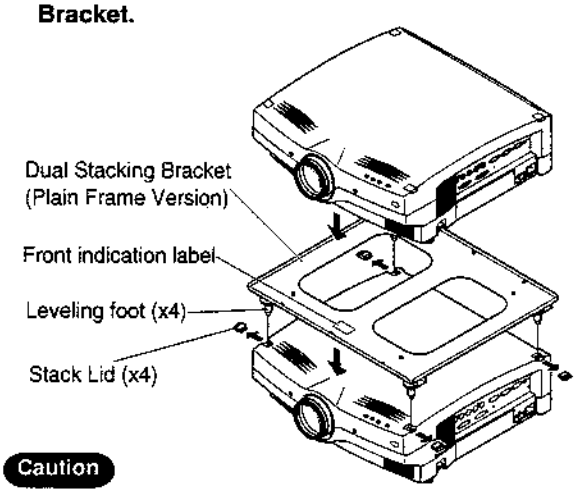
Note

- Keep the 4 stack lids in a safe place for future use.

3. Place the Dual Stacking Bracket on the bottom projector:

Install the Dual Stacking Bracket on the bottom projector with the front indication label facing forward.

4. Place the top projector on the Dual Stacking Bracket.



Caution

- Be careful not to drop the Top Projector.

Adjustment (adjust the bottom projector first.)

1. Adjusting the Bottom LCD Projector

(1) Set up the bottom LCD projector for projection by following the appropriate steps in the Instruction Manual supplied with the LCD projector, and project a test pattern onto the screen.

(2) Adjust the screen position until the lens axis makes a right angle with the screen (see diagram on previous page).

(3) Correct any pin cushion effect and/or tilt with the leveling feet of the LCD projector.

(4) Perform vertical position, zoom and focus adjustments (see pages 33 and 34 of the Instruction Manual supplied with the LCD projector).

2. Adjusting the Top LCD Projector

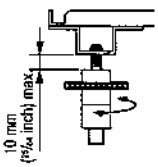
Adjust the top LCD projector until its test-pattern projection is perfectly superimposed on the one from the bottom LCD projector.

(1) Change the LCD projector ID for the bottom LCD projector so that only the top LCD projector is controllable with the Remote Control. (For LCD projector ID setting, see page 36 of the Instruction Manual supplied with the LCD projector.)

(2) Adjust the screen position until the lens axis makes a right angle with the screen. Then perform vertical position, zoom and focus adjustments (see pages 33 and 34 of the Instruction Manual supplied with the LCD projector).

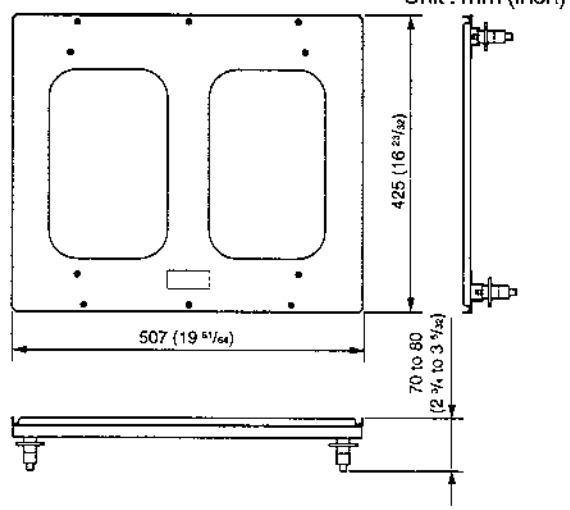
3. Adjusting the Dual Stacking Bracket

Correct any image tilt with the four leveling feet of the Dual Stacking Bracket. The leveling feet have an adjusting stroke of 10 mm ($^{25}/_{64}$ inch) each. For axial projector positioning, move both the top and bottom LCD projectors.



Outer Dimensions

Unit : mm (inch)



Specifications

Leveling foot stroke		10 mm ($^{25}/_{64}$ inch)
Outer dimensions	Width	507 mm (19 $^{61}/_{64}$ inch)
	Height	70 to 80 mm (2 $^{3}/_{4}$ to 3 $^{5}/_{32}$ inch)
	Depth	425 mm (16 $^{23}/_{32}$ inch)
Weight		3.6 kg (7.74 lbs)

M0501-1061

Matsushita Electric Industrial Co., Ltd
Central P.O. Box 288, Osaka 530-8691, Japan