

Panasonic

LCD Projector

Commercial Use

Guide to Lens Installation

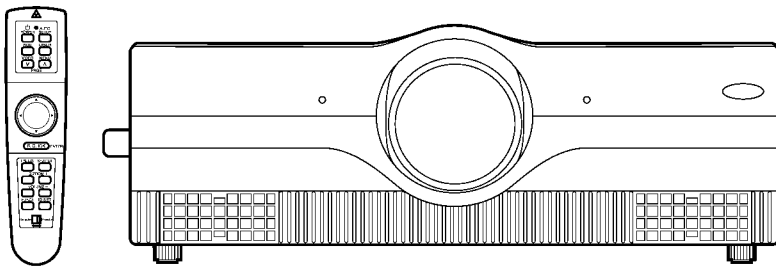
Model No.

PT-L6500UL

PT-L6600UL

PT-L6500EL

PT-L6600EL

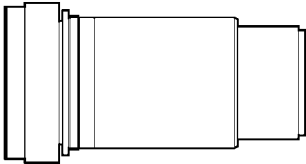
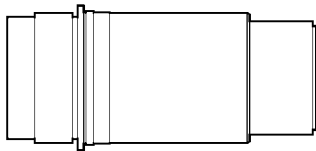
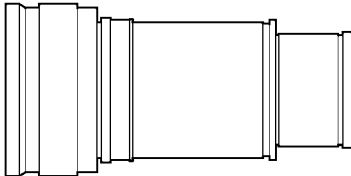
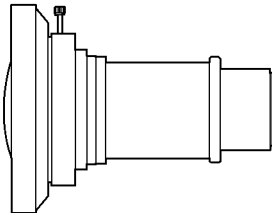


Notes:

- At this service manual, it mentions only the Guide to Lens Installation of PT-L6500UL/L6600UL as the representative of PT-L6500EL/L6600EL.
- Because some pages in Guide to Lens Installation are used for this section without change, note that the page numbers shown in sentences of this section are those of Guide to Lens Installation.

OPTIONAL LENS

The projector comes as standard with no projection lens supplied. Choose the appropriate optional projection lens from the following list:

Lens type (name)	Illustration	Description
Short focus zoom lens (ET-LE101)		Choose this lens when only a limited projection distance is required, for example, relatively small home theater installations.
Medium focus zoom lens (ET-LE200)		Lens with medium focal distance between shot focus lens and long focus lens.
Long focus zoom lens (ET-LE300)		Choose this lens for large halls or theaters.
Fixed focus lens (ET-LE050)		Lens with short focal distance for rear projection. It is only capable of right-angle projection. Since it has influence on a focus, the lens shift function is not used.

INDIVIDUAL LENS-RELATED FEATURES

The PT-L6500UL / L6600UL and PT-L6500EL / L6600EL is an optional lens version of the PT-L6500U / L6600U and PT-L6500E / L6600E projector. For details, refer to the table below. Note that the descriptions in this table may differ slightly from those given in the user’s manual supplied with the projector:

Projector model No.	Zoom/Focus adjustment
PT-L6500UL PT-L6600UL PT-L6500EL PT-L6600EL	Manual adjustment
PT-L6500U PT-L6600U PT-L6500E PT-L6600E	Powered zoom and focus adjustment is achieved by remote control or with the projector’s control buttons. Focus may have only manual adjustment.

HANDLING CAUTIONS

- Before mounting or replacing the projection lens, check to make sure that the projector has been turned off.
- Do not power up the projector with no lens installed.
- Whenever removing the lens from the projector, be sure to first remove the lens setscrew.
- While carrying the projector, exercise care not to jolt the lens by accidental contact with heavy objects. Remove the lens whenever transporting the projector.

INSTALLING THE LENS

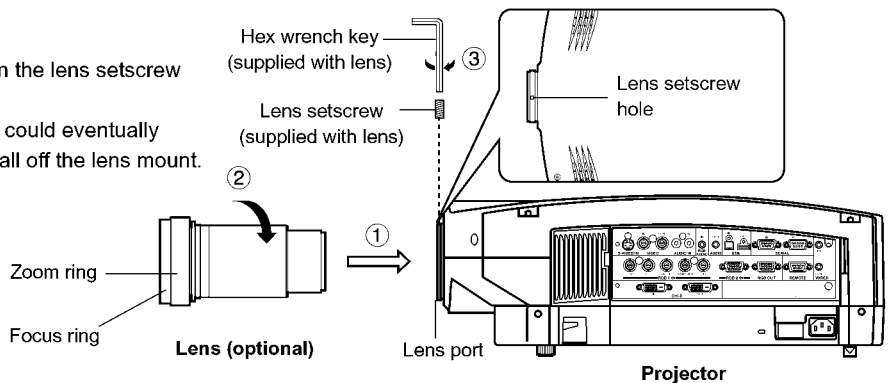
1. Remove the lens cap from the projector, and then carefully insert the optional lens into the lens mount.

Note

- Insert the lens in alignment with the projector's optical axis. Insertion at a skewed angle may damage the lens or lens mount.
2. Align the screw thread of the lens with that of the lens mount and turn the lens clockwise until it sits in lens mount firmly.
 3. Screw the lens setscrew (supplied with the lens) into the screw hole at the top of the lens mount, and tighten with the hex wrench key (supplied with the lens).

Note

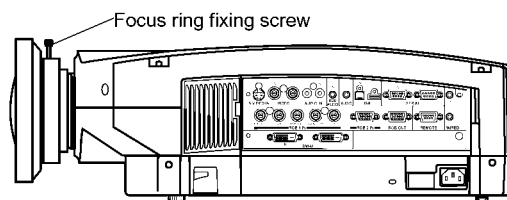
- Be sure to tighten the lens setscrew firmly.
A loose setscrew could eventually allow the lens to fall off the lens mount.



ADJUSTING THE LENS

Perform focus and picture size adjustments while viewing images on the screen:

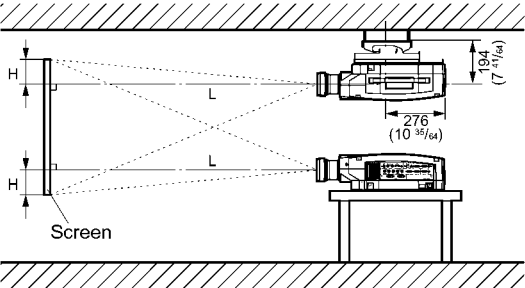
1. Adjust the focus with the focus ring.
2. Fit the picture size to the screen size with the zoom ring.
 - When using the fixed focus lens (ET-LE050), fit picture size to the screen by moving the projector back and forth.
3. Perform fine focus adjustment with the focus ring.
 - When using the fixed focus lens (ET-LE050), perform the fine focus adjustment, and then lock the focus ring with focus ring set screw.



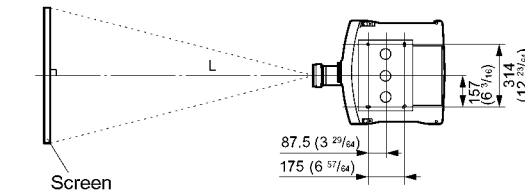
PROJECTION DISTANCE AND PROJECTOR POSITIONING

The following figures and table describe projection distances in relation to screen size. With the optional zoom lens, projection distance can be varied without having to reposition the projector. Vertical picture skew can also be compensated for with the projector's lens shift feature (refer to the user's manual supplied with the projector). Make fine adjustments while viewing images on the screen.

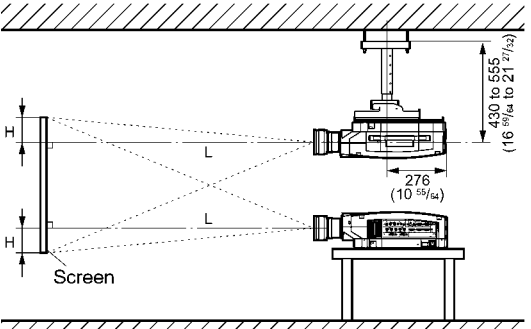
Side view (ceiling mount bracket in this figure: ET-PKL6500S)



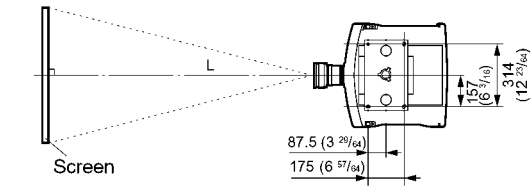
Plan view



Side view (ceiling mount bracket in this figure: ET-PKL6500)



Plan view



unit : m [] : foot () : inch

Screen size (Inches diag.)	Projection distance (L)						Allowable range of projector height (H) (screen edge to lens center)
	With ET-LE101		With ET-LE200		With ET-LE300		
	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	
0.76 (30")	—	1.1 [3'7"]	—	2.6 [8'6"]	2.7 [8'11"]	3.6 [11'10"]	0.02 to 0.22 (7/8 to 8 21/32)
1.02 (40")	1.1 [3'7"]	1.4 [4'7"]	2.1 [6'11"]	3.4 [11'12"]	3.6 [11'10"]	4.8 [15'9"]	0.03 to 0.30 (1 3/16 to 11 13/16)
1.27 (50")	1.3 [4'4"]	1.7 [5'7"]	2.6 [8'6"]	4.3 [14'1"]	4.4 [14'5"]	5.8 [19']	0.04 to 0.38 (1 9/16 to 14 61/64)
1.52 (60")	1.6 [5'2"]	2.1 [6'11"]	3.1 [10'2"]	5.2 [17'1"]	5.4 [17'9"]	7.1 [23'3"]	0.05 to 0.45 (1 49/64 to 17 23/32)
2.03 (80")	2.2 [7'2"]	2.8 [9'2"]	4.3 [14'1"]	6.9 [22'7"]	7.2 [23'7"]	9.5 [31'2"]	0.06 to 0.60 (2 23/64 to 23 19/16)
2.54 (100")	2.7 [8'11"]	3.6 [11'10"]	5.4 [17'8"]	8.7 [28'6"]	8.9 [29'2"]	11.8 [38'9"]	0.08 to 0.76 (2 63/64 to 29 59/64)
3.05 (120")	3.3 [10'10"]	4.3 [14'1"]	6.5 [21'4"]	10.5 [34'5"]	10.7 [35'1"]	14.2 [46'7"]	0.09 to 0.91 (3 37/64 to 35 53/64)
3.56 (140")	3.9 [12'10"]	5.1 [16'8"]	7.5 [24'7"]	12.3 [40'4"]	12.5 [41'1"]	16.6 [54'6"]	0.11 to 1.06 (4 11/64 to 41 47/64)
4.06 (160")	4.4 [14'5"]	5.8 [19']	8.6 [28'2"]	14.1 [46'4"]	14.3 [46'11"]	18.9 [62']	0.12 to 1.21 (4 49/64 to 47 41/64)
4.57 (180")	5.0 [16'5"]	6.6 [21'8"]	9.7 [31'10"]	15.9 [52'2"]	16.1 [52'10"]	21.3 [69'11"]	0.14 to 1.37 (5 25/64 to 53 15/16)
5.08 (200")	5.6 [18'15"]	7.3 [24']	10.9 [35'10"]	17.7 [58'1"]	17.8 [58'5"]	23.6 [77'5"]	0.15 to 1.52 (5 63/64 to 59 27/32)
5.51 (220")	6.1 [20']	8.1 [26'7"]	11.9 [39']	19.5 [64']	19.6 [64'5"]	26.0 [85'4"]	0.17 to 1.67 (6 9/16 to 65 3/4)
6.10 (240")	6.7 [22']	8.8 [28'11"]	13.0 [42'8"]	21.3 [69'11"]	21.4 [70'3"]	28.3 [92'10"]	0.18 to 1.82 (7 11/64 to 71 21/32)
6.60 (260")	7.3 [24']	9.5 [31'2"]	14.1 [46'4"]	23.1 [75'9"]	23.1 [75'9"]	30.7 [100'9"]	0.20 to 1.98 (7 51/64 to 77 61/64)
7.11 (280")	7.8 [25'6"]	10.3 [33'10"]	15.2 [49'11"]	24.9 [81'8"]	24.9 [81'8"]	33.1 [108'7"]	0.21 to 2.13 (8 25/64 to 83 55/64)
7.62 (300")	8.4 [27'6"]	11.0 [36'1"]	16.3 [53'6"]	26.7 [87'7"]	26.7 [87'7"]	35.4 [116'2"]	0.23 to 2.28 (8 63/64 to 89 49/64)