ET-D3LEF70

Description

This Fisheye lens is designed for use with Panasonic's applicable projectors.

The Fisheye Lens is ideal for projection to the dome screen.

NOTE: The lens cannot be used by itself.
It must be mounted onto the specified Panasonic projector (sold separately).

Specifications (Specifications and appearance are subject to change for improvement without notice.)

Maximum angle of view 91.5° (Max Lens shift diagonal)

Projected angle WQXGA H:61.3 V:38.4 D:72.3

WUXGA H:65.7 V:41.1 D:77.5 Full HD H:66.0 V:66.0 D:75.7 SXGA+ H:60.7 V:45.5 D:75.9 WXGA H:66.0 V:37.1 D:75.7

Lens shift: WQXGA H:±17% V:±37%

> WUXGA H:±12% V:±27% Full HD H:±13% V:±35% SXGA+ H:±15% V:±25% H:±21% V:±54% WXGA

Focus adjustment function yes Optical masking*1 yes Focal length: 9 mm 2.5 F value:

Lens ID Compatible models: PT-RQ32K/PT-RZ31K/PT-RS30K/PT-RZ21K/PT-RS20K

Dimensions: Width 154 mm (6-1/16) (Excluding protrusions)

> Height 150 mm (5-29/32) Depth 529 mm (20-13/16)

Approx 7.1 kg*2 (15.7 lbs*2) Weight:

Applicable projector*3: [Group A]

PT-DZ21K2/PT-DS20K2/PT-DW17K2/PT-DZ16K2

[Group B]

PT-DZ13K/PT-DS12K/PT-DW11K/PT-DZ10K

PT-RQ13K/PT-RZ12K/PT-RS11K

[Group D]

PT-RZ21K/PT-RS20K

[Group E]

PT-RQ32K/PT-RZ31K/PT-RS30K

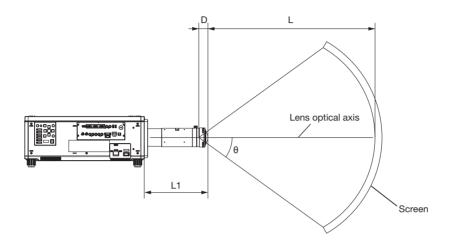
^{*1} Please contact your sales representative for further information.
*2 Average value. May differ depending on the actual unit.

^{*3} Models other than the above may also be supported. Refer to the operating instructions for your projector.

Projection relationships

Dimensional relationship diagram

The dimensional relationship between the screen and the projector is shown below.



- NOTE
 The indications of this illustration are premised on aligning the projected image size and position to the full screen.
 This illustration is not drawn to scale.

θ Projected angle	
L	Projection distance (lens front end to screen)
L1	Projector to lens front end
D	Exit pupil position

Model	L1 dimension (m)
PT-RQ32K / PT-RZ31K / PT-RS30K	0.355
PT-RZ21K / PT-RS20K / PT-RQ13K /	
PT-RZ12K / PT-RS11K / PT-DZ21K2 /	
PT-DS20K2 / PT-DW17K2 /	0.385
PT-DZ16K2 / PT-DZ13K / PT-DS12K /	
PT-DW11K / PT-DZ10K	

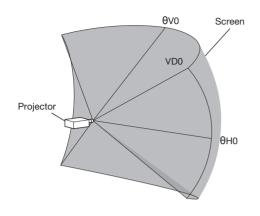
Supported projection distance (L) range (m)	2 to ∞

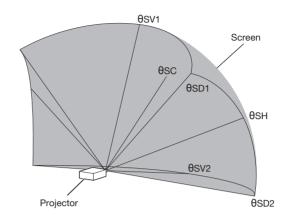
Projected angle (θ) (degrees)	Exit pupil position (D) (m)*
10	0.0233
20	0.0229
30	0.0223
40	0.0214
50	0.0202
60	0.0186
70	0.0165
80	0.0139
91.6 (maximum)	0.0096

^{*} There may be slight discrepancies in the exit pupil positions.

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Projected angle of view diagram





When the lens is centered

θV0	Maximum vertical center angle of view
ӨНО	Maximum horizontal center angle of view
θD0	Maximum diagonal angle of view

When the lens is shifted to the upward Vmax position

θSC	Center angle of view
θSV1	Maximum vertical center angle of view
θSV2	Maximum angle of view on opposing side of vertical center (θ SV1)
θSH	Maximum horizontal center angle of view
θSD1	Maximum diagonal angle of view
θSD2	Maximum angle of view on vertically opposing side of diagonal (θ SD1)

OPT-RQ32K / PT-RQ13K

ӨНО	θV0	θD0
61.3	38.4	72.3

θSC	θSV1	θSV2	θSH	θSD1	θSD2
28.4	66.6	10.0	67.5	90.8	62.1

OPT-RZ31K / PT-RZ21K / PT-RZ12K / PT-DZ21K2 / PT-DZ13K / PT-DZ10K

ӨНО	θV0	θD0
65.7	41.1	77.5

θSC	0SV1	θSV2	θSH	θSD1	θSD2
22.3	63.2	19.0	69.3	91.4	68.4

OPT-RS30K / PT-RS20K / PT-RS11K / PT-DS20K2 / PT-DS12K

θH0	θV0	θD0
60.7	45.5	75.9

θSC	0SV1	θSV2	θSH	0SD1	θSD2
22.8	68.3	22.8	64.8	91.5	64.8

OPT-DZ16K2

9Н0	θV0	θD0
66.0	66.0	75.7

θSC	0SV1	θSV2	θSH	θSD1	θSD2
26.0	63.1	11.1	70.9	91.3	66.9

○PT-DW17K2 / PT-DW11K

0H0	θV0	θD0
66.0	37.1	75.7

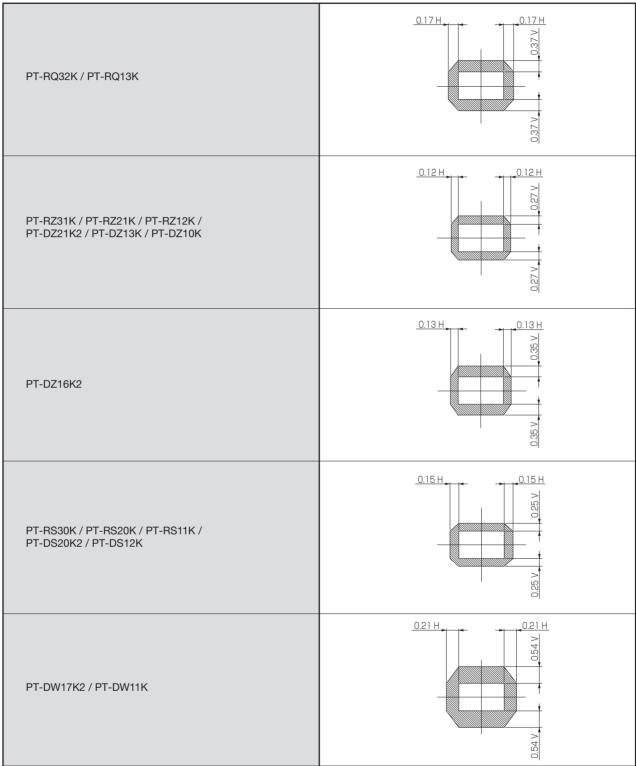
θSC	0SV1	θSV2	θSH	θSD1	θSD2
26.0	68.1	11.1	70.9	91.3	66.9

- NOTE
 The illustrations of projectors in this manual are for informational purposes only and do not represent a specific projector model. Configurations may vary with the model.

 • As the front end of the lens approaches closer to a spherical or column-shaped screen center, uniformity of the
- total focus and total brightness of the projected image is enhanced.

Lens shift ranges

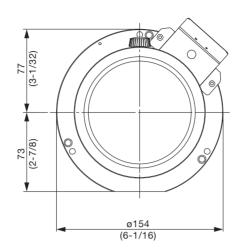
Optical axis shift function allows to shift the position of a projected image as shown below.

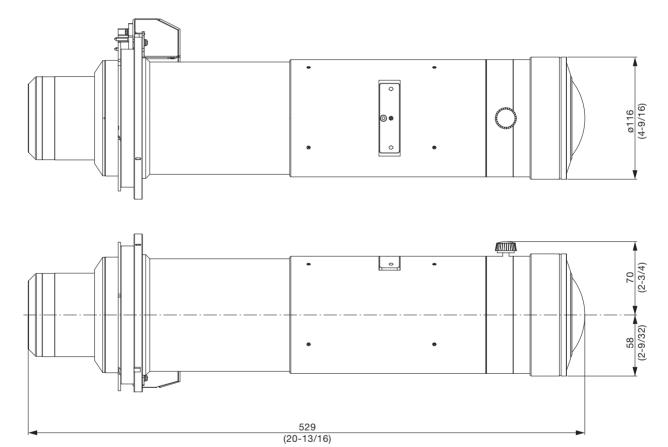


NOTE

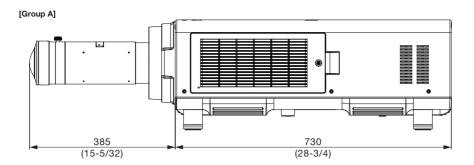
• The lens shift ranges that are shown indicate the positional relationships between the projector's display panel and lens. The screen position of the image projected on the screen does not move in proportion to the screen size. For details on the relationship between the lens shift and the projected angle of view, see "Projection relationships"

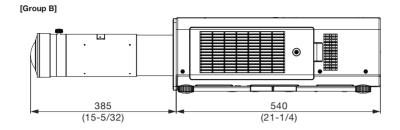
Dimensions

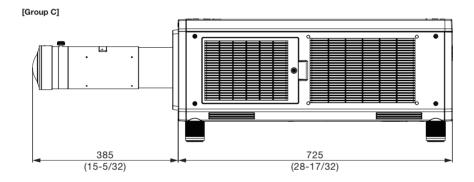


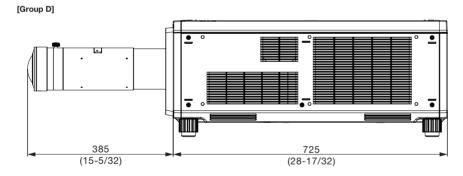


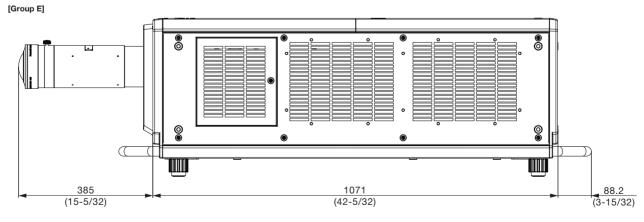
Fisheye Lens











unit : mm (inch)
NOTE: This illustration is not drawn to scale.