

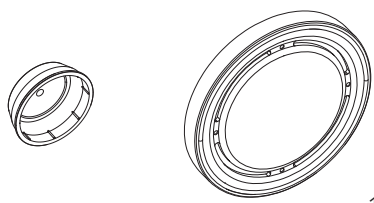
This lens is designed for use with Panasonic's applicable projectors.
 With ultra-short throw-distance and flexible zoom, this lens is designed to project in extremely tight spaces with minimal screen shadowing.

**Please use the lens only on the specified Panasonic projector.*

Specifications (Specifications are subject to change without notice.)

F-number	2.00	
Focal distance (f)	5.43 mm (7/32 inch) - 5.82 mm (15/64 inch)	
Throw ratio	0.330 – 0.353:1 (Aspect 16:10)	
	0.330 – 0.353:1 (Aspect 16:9)	
	0.397 – 0.425:1 (Aspect 4:3)	
Dimensions	Width	170 mm (6-11/16 inch)
	Height	170 mm (6-11/16 inch)
	Depth	449 mm (17-11/16 inch)
Weight	Approx. 4.0 kg (8.82 lbs)	
Applicable projector	PT-MZ882/PT-MZ782/PT-MZ682/PT-MZ880/PT-MZ780/PT-MZ680	

Supplied Accessories

Product name	Appearance (quantity)
Lens cover	 <p>1 each (front and rear cover)</p>

Dimensions

unit : mm [inch]
 This illustration is not drawn to scale.

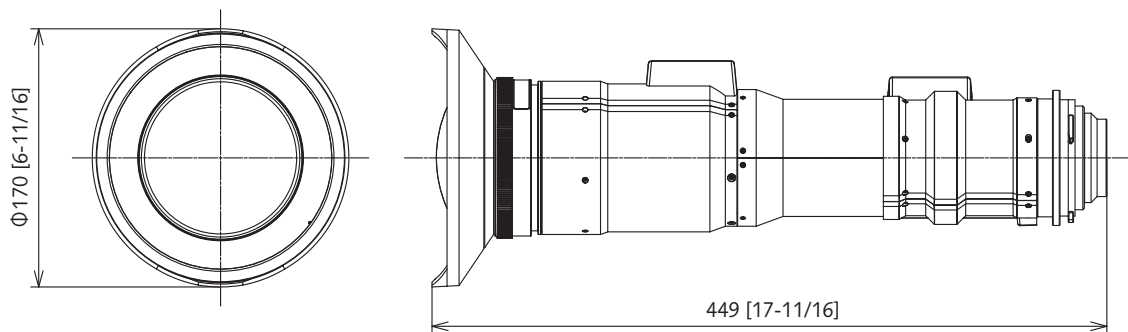
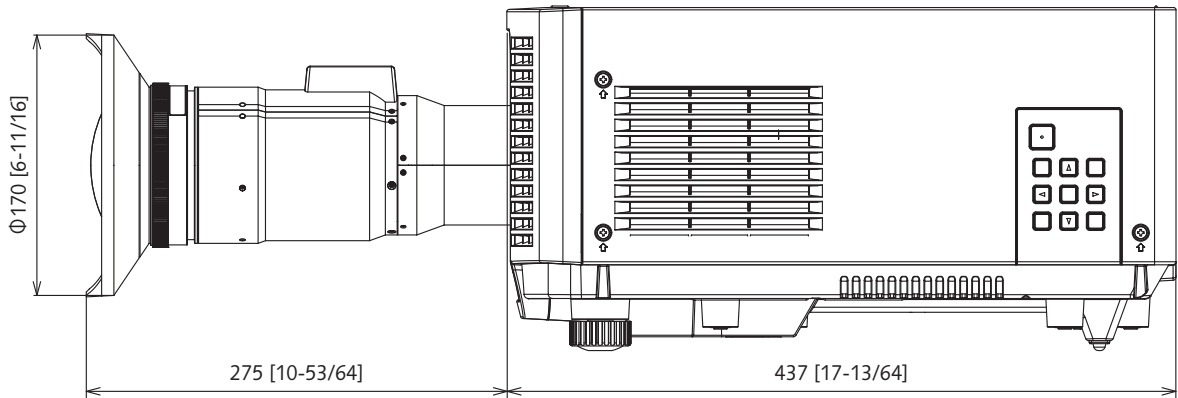
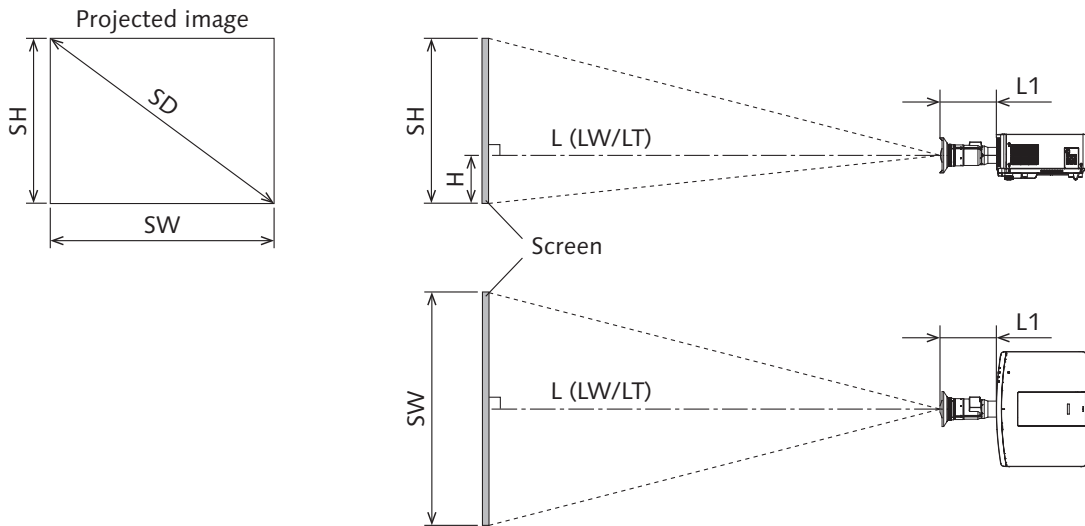


Figure attached to the [PT-MZ882/PT-MZ782/PT-MZ682/PT-MZ880/PT-MZ780/PT-MZ680] projector

unit : mm [inch]
This illustration is not drawn to scale.



Projection relationship diagram



Note

- This diagram assumes that the size and position of the projected image will be adjusted so that the image fits the entire screen.
- This illustration is not drawn to scale.
- The values are approximate.

SH	Projected image height	
SW	Projected image width	
SD	Projected image size	
H	Distance from the lens center to the lower edge of the projected image	
L	Projection distance	
	LW	Minimum distance
	LT	Maximum distance
L1	Lens protrusion dimension	

unit : m

Projector Model No.	Lens protrusion dimensions (L1)
PT-MZ882/PT-MZ782/PT-MZ682 PT-MZ880/PT-MZ780/PT-MZ680	0.275

Projection distance

Screen aspect ratio 16:10

Unit: m

Throw ratio ¹				0.330 – 0.353:1		Height position (Distance from the lens center to the lower edge of the projected image) (H)
Projected image size				Projection distance (L) ²		
Diagonal (SD)		Height (SH)	Width (SW)	Min.(LW)	Max.(LT)	
m	inches					
2.540	100	1.346	2.154	0.70	0.75	0.00 - 1.35
3.048	120	1.615	2.585	0.84	0.91	0.00 - 1.62
3.810	150	2.019	3.231	1.06	1.14	0.00 - 2.02
5.080	200	2.692	4.308	1.43	1.53	0.00 - 2.69
6.350	250	3.365	5.385	1.79	1.93	0.00 - 3.37
7.620	300	4.039	6.462	2.16	2.32	0.00 - 4.04
8.890	350	4.712	7.539	2.52	2.71	0.00 - 4.71
10.160	400	5.385	8.616	2.88	3.10	0.00 - 5.38

Screen aspect ratio 16:9

Unit: m

Throw ratio ¹				0.330 – 0.353:1		Height position (Distance from the lens center to the lower edge of the projected image) (H)
Projected image size				Projection distance (L) ²		
Diagonal (SD)		Height (SH)	Width (SW)	Min.(LW)	Max.(LT)	
m	inches					
2.540	100	1.245	2.214	0.72	0.77	-0.07 - 1.31
3.048	120	1.494	2.657	0.87	0.93	-0.08 - 1.58
3.810	150	1.868	3.321	1.09	1.17	-0.10 - 1.97
5.080	200	2.491	4.428	1.47	1.58	-0.14 - 2.63
6.350	250	3.113	5.535	1.84	1.98	-0.17 - 3.29
7.620	300	3.736	6.641	2.22	2.38	-0.21 - 3.94
8.890	350	4.358	7.748	2.59	2.79	-0.24 - 4.60
10.160	400	4.981	8.855	2.97	3.19	-0.28 - 5.26

Screen aspect ratio 4:3

Unit: m

Throw ratio ¹				0.397 – 0.425:1		Height position (Distance from the lens center to the lower edge of the projected image) (H)
Projected image size				Projection distance (L) ²		
Diagonal (SD)		Height (SH)	Width (SW)	Min.(LW)	Max.(LT)	
m	inches					
2.540	100	1.524	2.032	0.80	0.85	0.00 - 1.52
3.048	120	1.829	2.438	0.96	1.03	0.00 - 1.83
3.810	150	2.286	3.048	1.21	1.30	0.00 - 2.29
5.080	200	3.048	4.064	1.62	1.74	0.00 - 3.05
6.350	250	3.810	5.080	2.03	2.19	0.00 - 3.81
7.620	300	4.572	6.096	2.44	2.63	0.00 - 4.57
8.890	350	5.334	7.112	2.86	3.07	0.00 - 5.33
10.160	400	6.096	8.128	3.27	3.52	0.00 - 6.10

¹ The throw ratio is an approximate value that represents the horizontal size of the screen/projection distance. The throw ratio is based on the value during projection with the projected image size of 3.81 m [150 in].

² A ±5 % error in listed projection distances may occur. In addition, when [KEYSTONE] is used, distance is corrected to become smaller than the specified screen size.

Projection distance

Screen aspect ratio 16:10

Unit: feet

Throw ratio ¹				0.330 – 0.353:1		Height position (Distance from the lens center to the lower edge of the projected image) (H)
Projected image size				Projection distance (L) ²		
Diagonal (SD)		Height (SH)	Width (SW)	Min.(LW)	Max.(LT)	
m	inches					
2.540	100	4.42	7.07	2.30	2.46	0.00 - 4.43
3.048	120	5.30	8.48	2.76	2.99	0.00 - 5.31
3.810	150	6.62	10.60	3.48	3.74	0.00 - 6.63
5.080	200	8.83	14.13	4.69	5.02	0.00 - 8.83
6.350	250	11.04	17.67	5.87	6.33	0.00 - 11.06
7.620	300	13.25	21.20	7.09	7.61	0.00 - 13.25
8.890	350	15.46	24.73	8.27	8.89	0.00 - 15.45
10.160	400	17.67	28.27	9.45	10.17	0.00 - 17.65

Screen aspect ratio 16:9

Unit: feet

Throw ratio ¹				0.330 – 0.353:1		Height position (Distance from the lens center to the lower edge of the projected image) (H)
Projected image size				Projection distance (L) ²		
Diagonal (SD)		Height (SH)	Width (SW)	Min.(LW)	Max.(LT)	
m	inches					
2.540	100	4.08	7.26	2.36	2.53	-0.23 - 4.30
3.048	120	4.90	8.72	2.85	3.05	-0.26 - 5.18
3.810	150	6.13	10.90	3.58	3.84	-0.33 - 6.46
5.080	200	8.17	14.53	4.82	5.18	-0.46 - 8.63
6.350	250	10.21	18.16	6.04	6.50	-0.56 - 10.79
7.620	300	12.26	21.79	7.28	7.81	-0.69 - 12.93
8.890	350	14.30	25.42	8.50	9.15	-0.79 - 15.09
10.160	400	16.34	29.05	9.74	10.47	-0.92 - 17.26

Screen aspect ratio 4:3

Unit: feet

Throw ratio ¹				0.397 – 0.425:1		Height position (Distance from the lens center to the lower edge of the projected image) (H)
Projected image size				Projection distance (L) ²		
Diagonal (SD)		Height (SH)	Width (SW)	Min.(LW)	Max.(LT)	
m	inches					
2.540	100	5.00	6.67	2.62	2.79	0.00 - 4.99
3.048	120	6.00	8.00	3.15	3.38	0.00 - 6.00
3.810	150	7.50	10.00	3.97	4.27	0.00 - 7.51
5.080	200	10.00	13.33	5.31	5.71	0.00 - 10.01
6.350	250	12.50	16.67	6.66	7.18	0.00 - 12.50
7.620	300	15.00	20.00	8.01	8.63	0.00 - 14.99
8.890	350	17.50	23.33	9.38	10.07	0.00 - 17.49
10.160	400	20.00	26.67	10.73	11.55	0.00 - 20.01

1 The throw ratio is an approximate value that represents the horizontal size of the screen/projection distance.

The throw ratio is based on the value during projection with the projected image size of 3.81 m [150 in].

2 A ±5 % error in listed projection distances may occur. In addition, when [KEYSTONE] is used, distance is corrected to become smaller than the specified screen size.

Calculation of the projection distance

To use a projected image size not listed in this manual, check the projected image size SD (m) and use the respective formula to calculate projection distance.

The unit of all the formulae is m. (Values obtained by the following calculation formulae contain a slight error.)

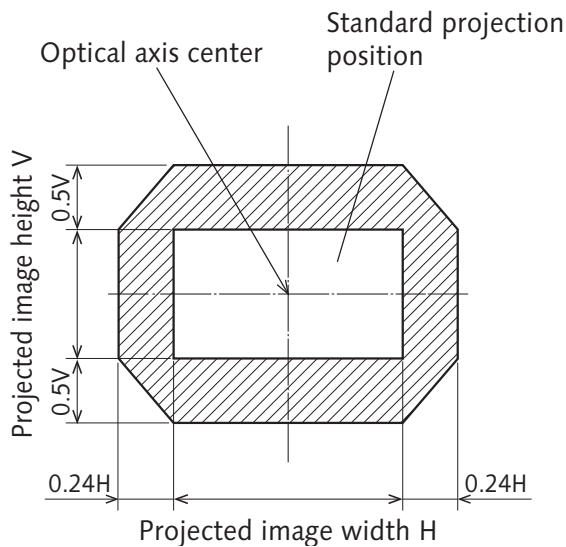
When calculating a projection distance using image size designation (Value in inches), multiply the value in inches by 0.0254 and substitute it into SD in the formula for calculating the projection distance.

Unit: m

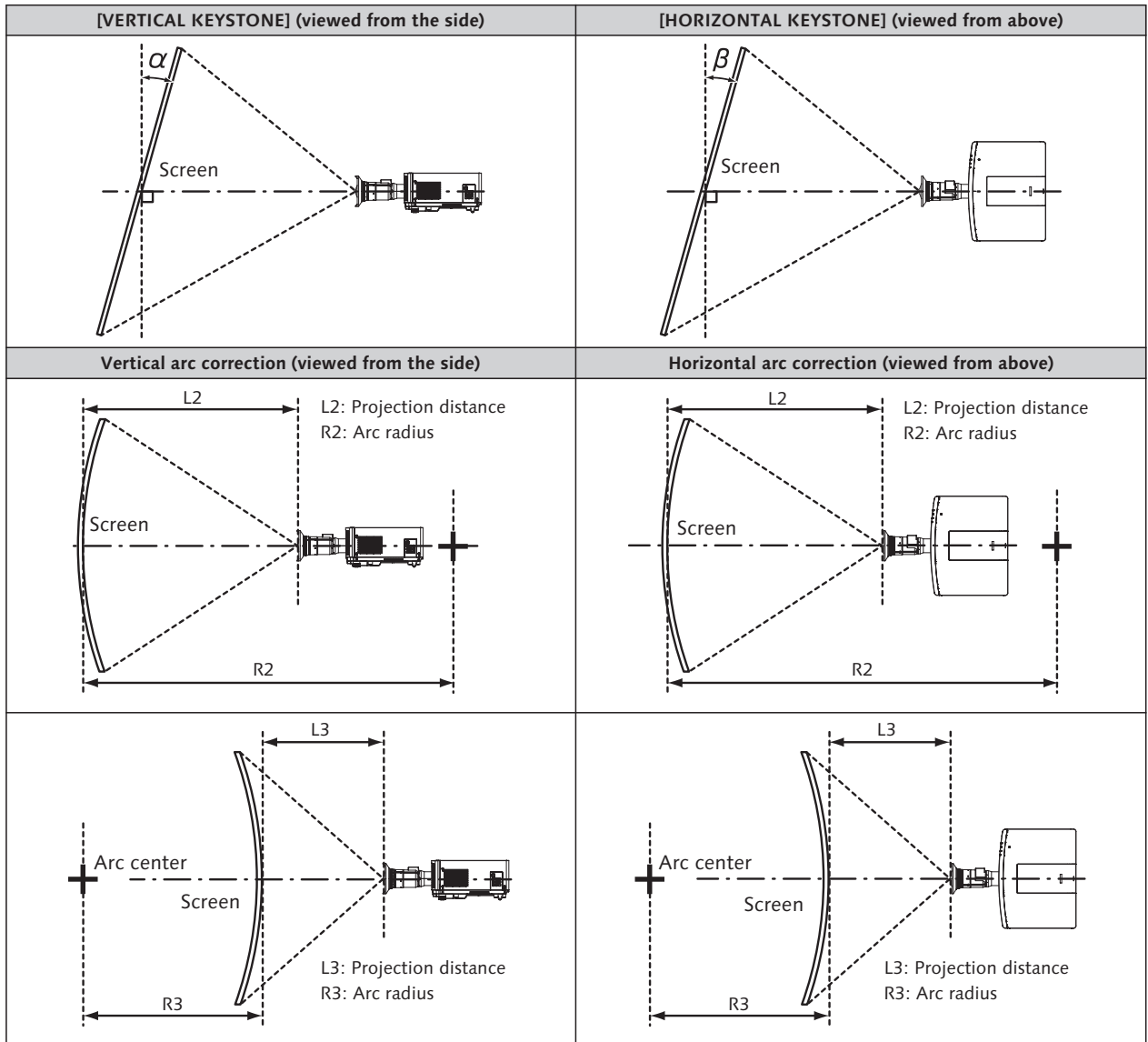
Aspect ratio	Throw ratio	Projection distance (L) formula	
		Min. (LW)	Max. (LT)
16:10	0.330 – 0.353 : 1	$=0.2868 \times SD - 0.0294$	$=0.3088 \times SD - 0.0346$
16:9	0.330 – 0.353 : 1	$=0.2948 \times SD - 0.0294$	$=0.3174 \times SD - 0.0346$
4:3	0.397 – 0.425 : 1	$=0.3247 \times SD - 0.0294$	$=0.3496 \times SD - 0.0346$

Lens shift range

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



[GEOMETRY] projection range



Projector Model No.	Only [KEYSTONE] used		[KEYSTONE] and [CURVED CORRECTION] used together				Only [CURVED CORRECTION] used	
	Vertical keystone correction angle α (°)	Horizontal keystone correction angle β (°)	Vertical keystone correction angle α (°)	Horizontal keystone correction angle β (°)	Min. value of R2/L2	Min. value of R3/L3	Min. value of R2/L2	Min. value of R3/L3
PT-MZ882 PT-MZ782 PT-MZ682 PT-MZ880 PT-MZ780 PT-MZ680	±5	±0	-	-	-	-	-	-

*Same when using the optional upgrade kit (ET-UK20)

Note

- When [GEOMETRY] is used, the focus of the entire screen may be lost as correction increases.