

This fixed-focus lens is designed for use with Panasonic's applicable projectors.

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

Specifications (Specifications subject to change without notice.)

F-number	2.5
Focal distance (f)	8.0 mm [5/16 in]
Throw ratio	0.447:1 PT-RQ25K/RQ18K/RZ24K/RZ17K/RZ14K (16:10 aspect ratio) 0.397:1 PT-RQ32K/RQ22K/RQ13K (16:10 aspect ratio) 0.370:1 PT-RQ45K/RZ44K/RQ35K2/RZ34K2/HTQ20/RQ35K/RZ34K/RZ31K/RZ21K/RZ16K/RZ12K (16:10 aspect ratio) 0.401:1 PT-RS30K/RS20K/RS11K (4:3 aspect ratio)
Auto Lens Identification function Compatible models	PT-RQ45K/RZ44K/RQ35K2/RZ34K2/HTQ20/RQ35K/RZ34K/RQ25K/RZ24K/RQ18K/RZ17K/RZ16K/RZ14K/ RQ32K/RZ31K/RS30K/RQ22K/RZ21K/RS20K
Dimensions	Width 275 mm [10 13/16 in]
	Height 154 mm [6 1/16 in]
	Depth 428.7 mm [16 7/8 in]
Weight	Approximately 8.0kg (17.6 lbs)
Applicable projector	Group A PT-RQ22K/RZ21K/RZ16K/RS20K
	Group B PT-RQ32K/RZ31K/RS30K
	Group C PT-RQ13K/RZ12K/RS11K
	PT-RQ45K/RZ44K/RQ35K2/RZ34K2/HTQ20/RQ35K/RZ34K/RQ25K/RZ24K/RQ18K/RZ17K/RZ14K *For these projectors see the individual spec les of the projectors

Note

Use of optional lens attachment ET-PLF20 may reduce lens vibration for some installation environments when using Group B or Group C projectors.

Dimensions

unit : mm [inch]

This illustration is not drawn to scale.

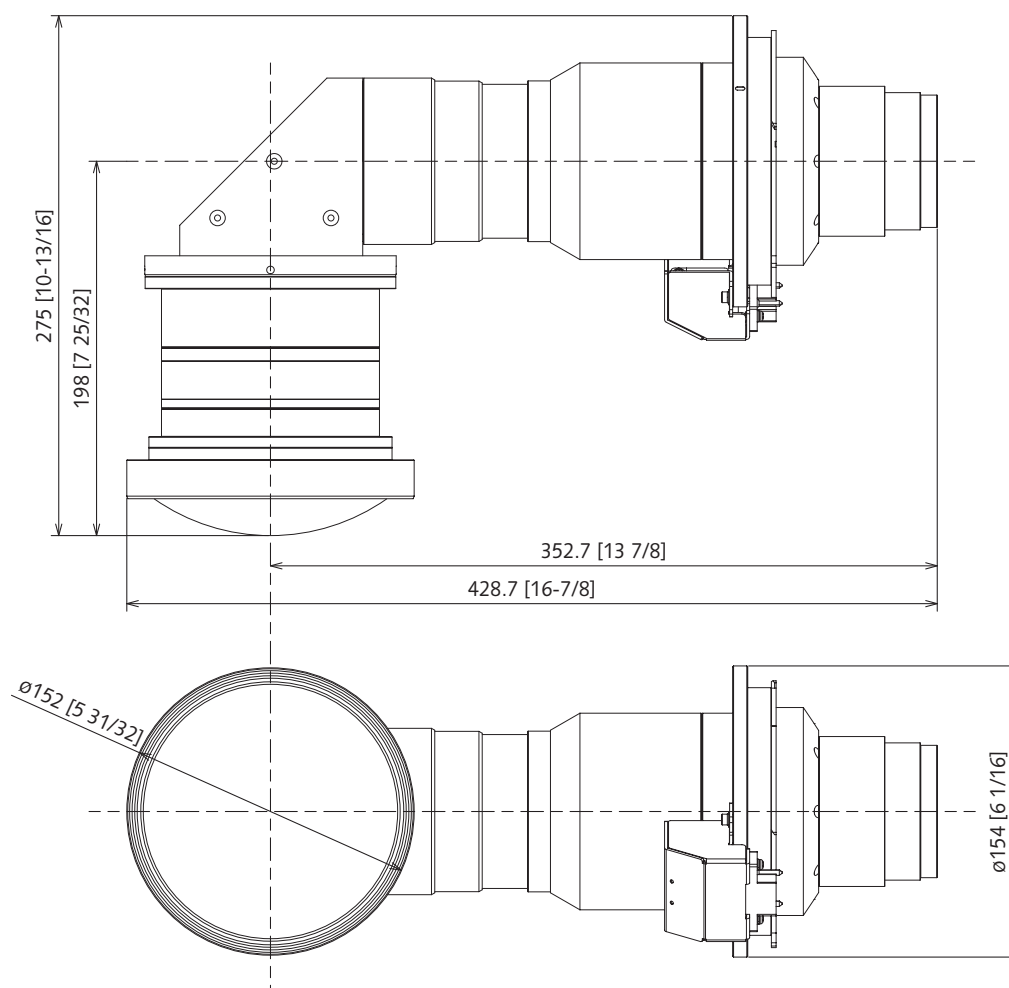


Figure attached to the [Group A, PT-RQ22K/RZ21K/RZ16K/RS20K] projector

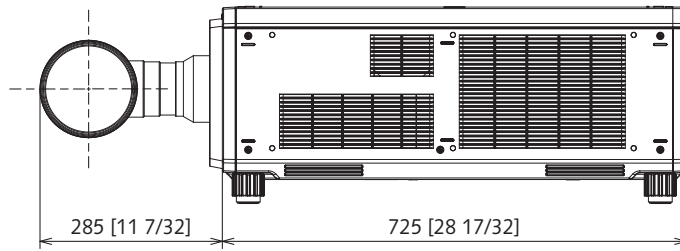


Figure attached to the [Group B, PT-RQ32K/RZ31K/RS30K] projector

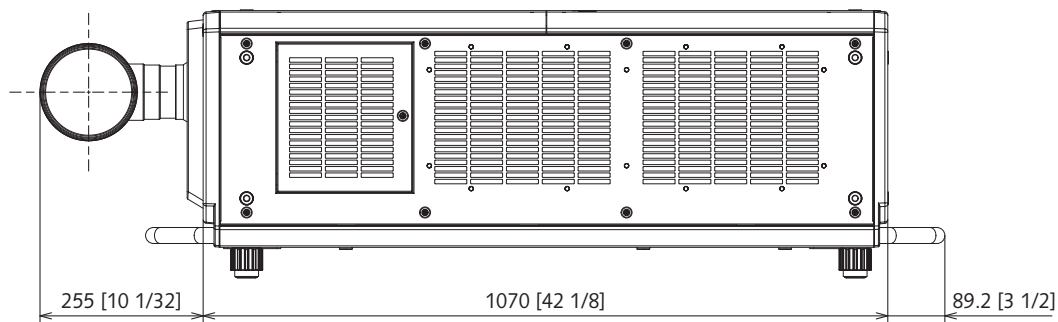
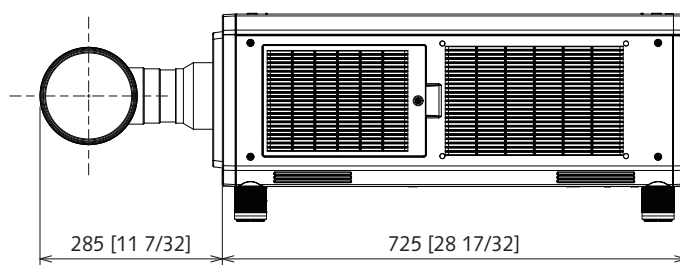
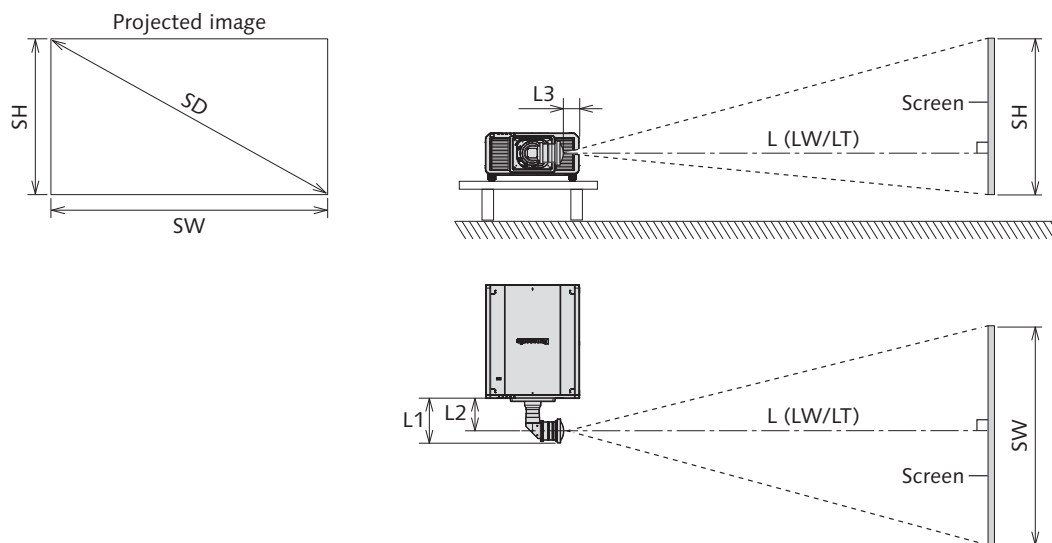


Figure attached to the [Group C, PT-RQ13K/RZ12K/RS11K] projector



Dimensional relationship diagram

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



Note

- This illustration is prepared on the assumption that the projected image size and position have been aligned to fit full in the screen.
- This illustration is not drawn to scale.
- The values are approximate.

L		Projection distance
	LW	Minimum distance
	LT	Maximum distance
L1	Lens protrusion dimension (Distance from front of projector to edge of lens)	
L2	Lens protrusion dimension (Distance from front of projector to center of lens)	
L3	Lens protrusion dimension (Distance from side of projector to center of lens)	
SH	Projected image height	
SW	Projected image width	
SD	Projected image size	

Unit : m

Projector model	Lens protrusion dimension (approximate value)		
	L1	L2	L3
PT-RQ22K/RZ21K/RZ16K/RS20K	0.26	0.18	0.15
PT-RQ32K/RZ31K/RS30K	0.29	0.21	0.10
PT-RQ13K/RZ12K/RS11K			0.09

Projection distance

A $\pm 5\%$ error in listed projection distances may occur.

When [SCREEN ADJUSTMENT] is used, distance is corrected to become smaller than the specified image size.

Screen aspect ratio 16:10

Unit: meters

Projector model				PT-RQ32K/RQ22K/RQ13K (2560x1600)	PT-RZ31K/RZ21K/RZ16K/ RZ12K (1920x1200)
Throw ratio				0.397:1	0.370:1
Projected image size				Projection distance	
Diagonal (SD)		Height (SH)	Width (SW)	(L)	(L)
m	inches				
5.080	200	2.692	4.308	1.71	1.59
6.350	250	3.365	5.385	2.12	2.01
7.620	300	4.039	6.462	2.56	2.42
8.890	350	4.712	7.539	3.11	2.84
10.160	400	5.385	8.616	3.55	3.25
12.700	500	6.731	10.770	4.44	4.08
15.240	600	8.077	12.923	5.33	4.91

Screen aspect ratio 16:10

Unit: feet

Projector model				PT-RQ32K/RQ22K/RQ13K (2560x1600)	PT-RZ31K/RZ21K/RZ16K/ RZ12K (1920x1200)
Throw ratio				0.397:1	0.370:1
Projected image size				Projection distance	
Diagonal (SD)		Height (SH)	Width (SW)	(L)	(L)
m	inches				
5.080	200	8.83	14.13	5.61	5.22
6.350	250	11.04	17.67	6.96	6.59
7.620	300	13.25	21.20	8.40	7.94
8.890	350	15.46	24.73	10.20	9.32
10.160	400	17.67	28.27	11.65	10.66
12.700	500	22.08	35.33	14.57	13.39
15.240	600	26.50	42.40	17.49	16.11

Screen aspect ratio 16:9

Unit: meters

Projector model				PT-RQ32K/RQ22K/RQ13K (2560x1440)	PT-RZ31K/RZ21K/RZ16K/ RZ12K (1920x1080)	PT-RS30K/RS20K/RS11K (1400x788)
Throw ratio				0.398:1	0.370:1	0.402:1
Projected image size				Projection distance		
Diagonal (SD)		Height (SH)	Width (SW)	(L)	(L)	(L)
m	inches					
5.080	200	2.491	4.428	1.76	1.64	1.78
6.350	250	3.113	5.535	2.18	2.06	2.24
7.620	300	3.736	6.641	2.63	2.49	2.70
8.890	350	4.358	7.748	3.20	2.92	3.16
10.160	400	4.981	8.855	3.65	3.34	3.62
12.700	500	6.226	11.069	4.56	4.19	4.55
15.240	600	7.472	13.283	5.48	5.05	5.47

Screen aspect ratio 16:9

Unit: feet

Projector model				PT-RQ32K/RQ22K/RQ13K (2560x1440)	PT-RZ31K/RZ21K/RZ16K/ RZ12K (1920x1080)	PT-RS30K/RS20K/RS11K (1400x788)
Throw ratio				0.398:1	0.370:1	0.402:1
Projected image size				Projection distance		
Diagonal (SD)		Height (SH)	Width (SW)	(L)	(L)	(L)
m	inches					
5.080	200	8.17	14.53	5.77	5.38	5.84
6.350	250	10.21	18.16	7.15	6.76	7.35
7.620	300	12.26	21.79	8.63	8.17	8.86
8.890	350	14.30	25.42	10.50	9.58	10.37
10.160	400	16.34	29.05	11.97	10.96	11.88
12.700	500	20.43	36.32	14.96	13.75	14.93
15.240	600	24.51	43.58	17.98	16.57	17.95

Screen aspect ratio 4:3

Unit: meters

Projector model				PT-RQ32K/RQ22K/RQ13K (2133x1600)	PT-RZ31K/RZ21K/RZ16K/ RZ12K (1600x1200)	PT-RS30K/RS20K/RS11K/ (1400x1050)
Throw ratio				0.479:1	0.446:1	0.401:1
Projected image size				Projection distance		
Diagonal (SD)		Height (SH)	Width (SW)	(L)	(L)	(L)
m	inches					
5.080	200	3.048	4.064	1.94	1.81	1.63
6.350	250	3.810	5.080	2.45	2.28	2.05
7.620	300	4.572	6.096	2.95	2.75	2.47
8.890	350	5.334	7.112	3.45	3.22	2.90
10.160	400	6.096	8.128	3.96	3.69	3.32
12.700	500	7.620	10.160	4.96	4.63	4.17
15.240	600	9.144	12.192	5.97	5.56	5.01

Screen aspect ratio 4:3

Unit: feet

Projector model				PT-RQ32K/RQ22K/RQ13K (2133x1600)	PT-RZ31K/RZ21K/RZ16K/ RZ12K (1600x1200)	PT-RS30K/RS20K/RS11K/ (1400x1050)
Throw ratio				0.479:1	0.446:1	0.401:1
Projected image size				Projection distance		
Diagonal (SD)		Height (SH)	Width (SW)	(L)	(L)	(L)
m	inches					
5.080	200	10.00	13.33	6.36	5.94	5.35
6.350	250	12.50	16.67	8.04	7.48	6.73
7.620	300	15.00	20.00	9.68	9.02	8.10
8.890	350	17.50	23.33	11.32	10.56	9.51
10.160	400	20.00	26.67	12.99	12.11	10.89
12.700	500	25.00	33.33	16.27	15.19	13.68
15.240	600	30.00	40.00	19.59	18.24	16.44

Calculation of the projection distance

Screen aspect ratio 16:10

Unit: m

Projector model	Projection distance (L) formula
PT-RQ32K/PT-RQ22K/PT-RQ13K	= (diagonal screen size in inches) x 0.0089 - 0.0664
PT-RZ21K/RZ16K/PT-RZ31K/PT-RZ12K	= (diagonal screen size in inches) x 0.0083 - 0.0664

Screen aspect ratio 16:9

Unit: m

Projector model	Projection distance (L) formula
PT-RQ32K/PT-RQ22K/PT-RQ13K	= (diagonal screen size in inches) x 0.0091 - 0.0664
PT-RZ21K/RZ16K/PT-RZ31K/PT-RZ12K	= (diagonal screen size in inches) x 0.0085 - 0.0664
PT-RS20K/PT-RS30K/PT-RS11K	= (diagonal screen size in inches) x 0.0092 - 0.0664

Screen aspect ratio 4:3

Unit: m

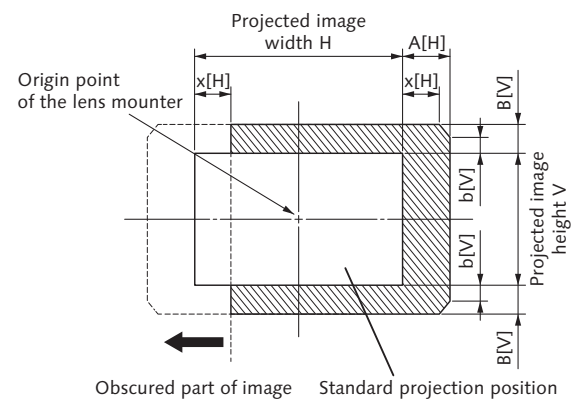
Projector model	Projection distance (L) formula
PT-RQ32K/PT-RQ22K/PT-RQ13K	= (diagonal screen size in inches) x 0.0101 - 0.0664
PT-RZ21K/RZ16K/PT-RZ31K/PT-RZ12K	= (diagonal screen size in inches) x 0.0094 - 0.0664
PT-RS20K/PT-RS30K/PT-RS11K	= (diagonal screen size in inches) x 0.0085 - 0.0664

Adjustment range by the lens position shift (optical shift)

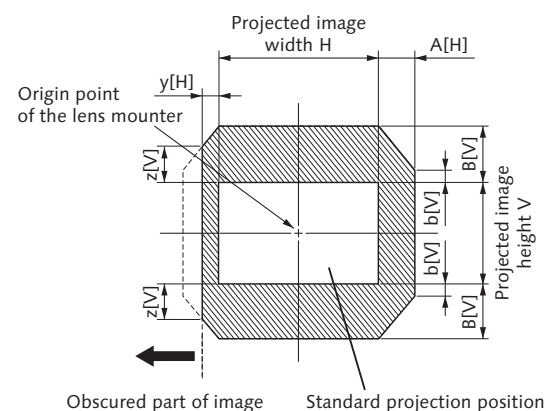
Based on the standard projection position using the optical axis shift function, the projection position can be adjusted in the range shown in the following figure.

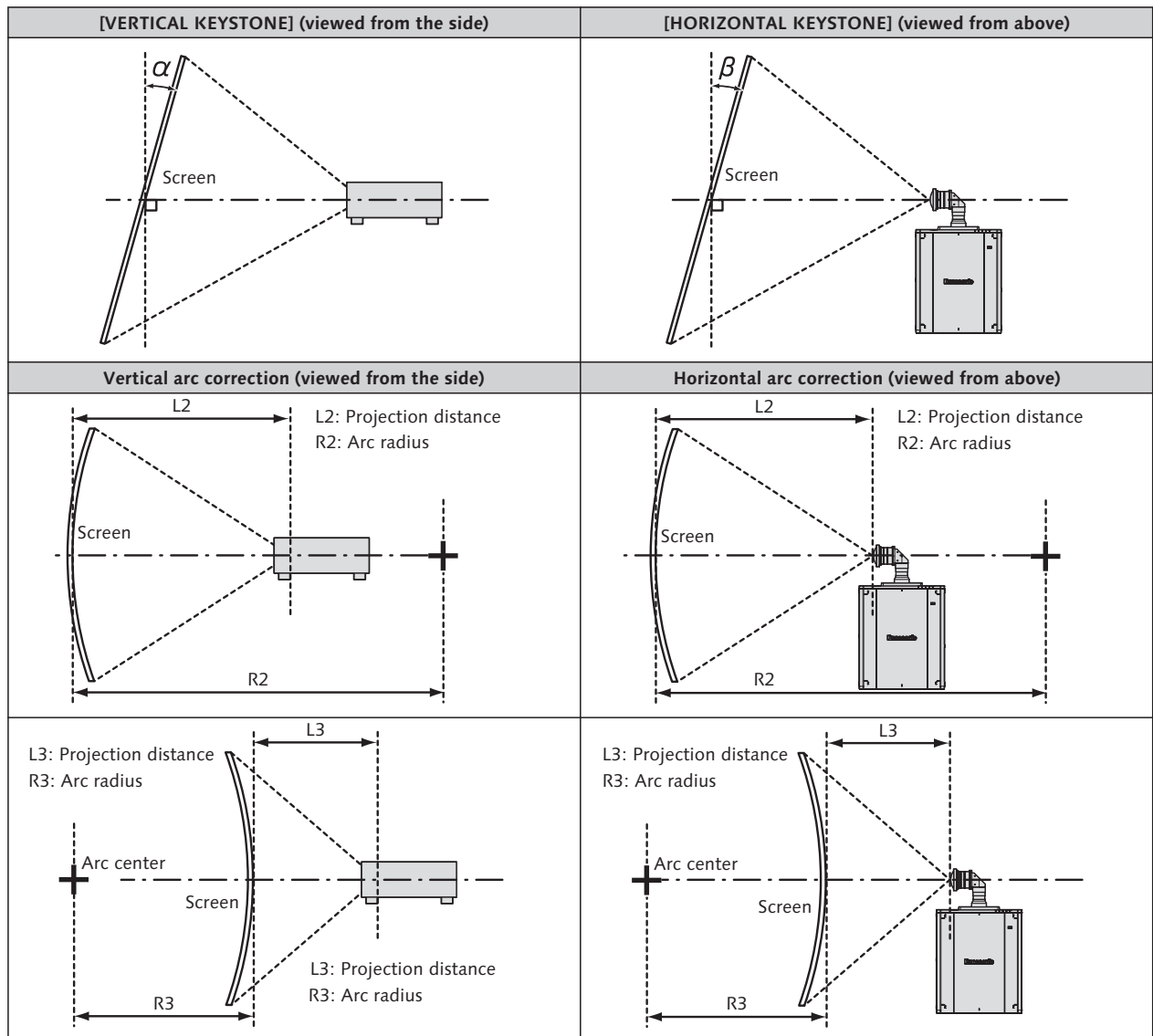
Following figure shows the adjustment range when the projector is installed on the floor.

Projector model	A	B	C	D
PT-RZ31K	0.25	0.24	0.12	0.18
PT-RQ32K	0.29	0.35	0.15	0.15
PT-RS30K	0.3	0.3	0.1	0.15



Projector model	A	B	b	y	z
PT-RZ21K	0.25	0.55	0.12	0	0.55
PT-RZ16K				0	0.55
PT-RZ12K				0.05	0.45
PT-RQ22K	0.29	0.59	0.15	0.05	0.50
PT-RQ13K				0.09	0.45
PT-RS20K				0.05	0.43
PT-RS11K	0.3	0.5	0.1	0.05	0.43



[GEOMETRY] projection range

Projector model	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-RQ32K/RQ22K/RQ13K	±8	±5	-	-	-	-	-	-
PT-RZ31K/RZ21K/RZ16K/RZ12K	±8	±5	-	-	-	-	-	-
PT-RS30K/RS20K/RS11K	±8	±5	-	-	-	-	-	-

When using the optional upgrade kit (ET-UK20)

Projector model	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-RQ32K/RQ22K/RQ13K	±8	±5	-	-	-	-	-	-
PT-RZ31K/RZ21K/RZ16K/RZ12K	±8	±5	-	-	-	-	-	-
PT-RS30K/RS20K/RS11K	±8	±5	-	-	-	-	-	-