

Zoom Lens

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

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

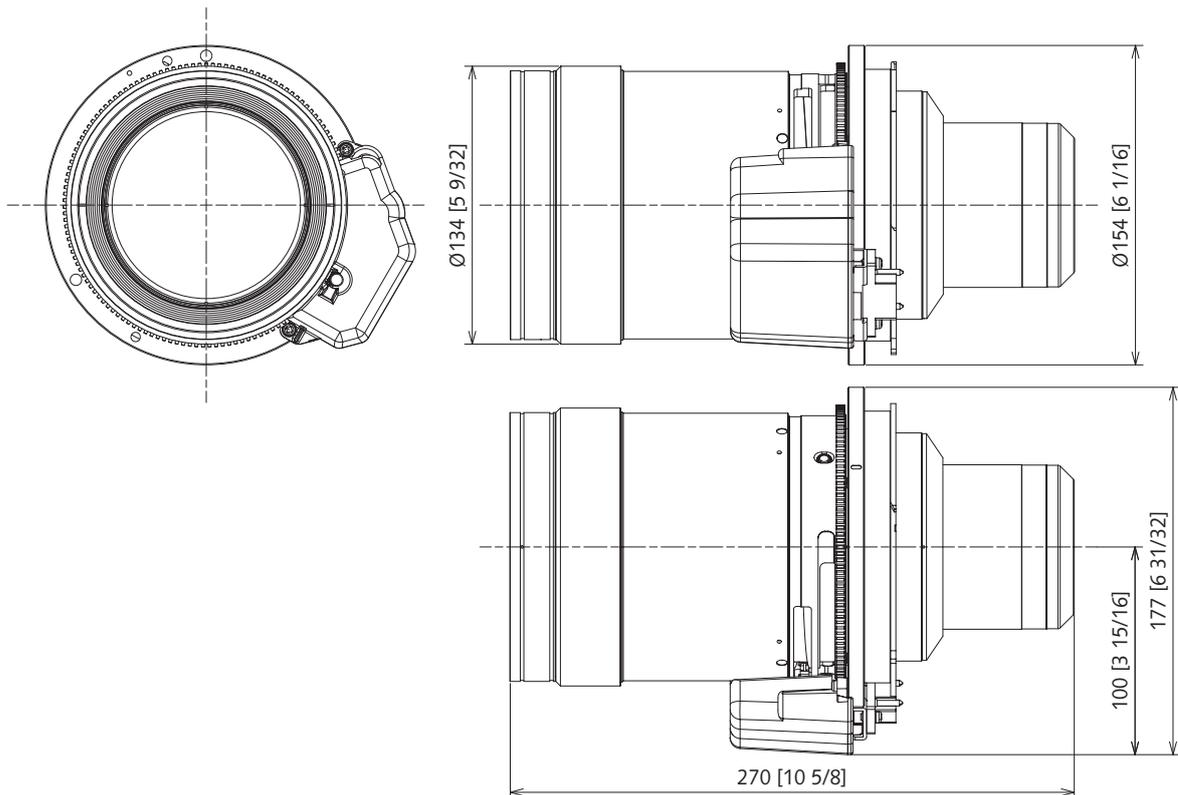
**Specifications** (Specifications subject to change without notice.)

F-number	2.5	
Focal distance (f)	35.0mm - 50.9mm	
Throw ratio	1.67-2.41:1 (PT-RQ45K/RZ44K/RQ35K2/RZ34K2/RQ35K/RZ34K/RZ31K/RZ21K/RZ16K/HTQ20) (16:10 aspect ratio)	
	1.79-2.59:1 (PT-RQ32K/RQ22K) (16:10 aspect ratio)	
	2.00-2.90:1 (PT-RQ25K/RQ18K/RZ24K/RZ17K/RZ14K) (16:10 aspect ratio)	
	1.80-2.61:1 (PT-RS30K/RS20K) (4:3 aspect ratio)	
Auto Lens Identification function Compatible models	PT-RQ45K/RZ44K PT-RQ35K2/RZ34K2/RQ35K/RZ34K PT-RQ25K/RQ18K/RZ24K/RZ17K/RZ14K PT-RQ32K/RZ31K/RS30K PT-RQ22K/RZ21K/RS20K/RZ16K PT-HTQ20	
Dimensions (Including the motor section)	Width	177 mm [6 31/32 in]
	Height	154 mm [6 1/16 in]
	Depth	270 mm [10 5/8 in]
Weight	Approximately 5.2 kg (11.46 lbs)	
Applicable projector <sup>1</sup>	[Group A] PT-RQ35K2/RZ34K2/RQ35K/RZ34K	
	[Group B] PT-RQ25K/RQ18K/RZ24K/RZ17K/RZ14K	
	[Group C] PT-RQ32K/RZ31K/RS30K	
	[Group D] PT-RQ22K/RZ21K/RS20K/RZ16K	
	[Group E] PT-RQ45K/RZ44K (Please refer to the individual projector specifications.)	
	[Group F] PT-HTQ20 (Please refer to the individual projector specifications.)	

1 If the projector you are using is PT-RQ32K/PT-RZ31K/PT-RS30K/PT-RZ21K/PT-RS20K, you may not be able to use the projection lens, depending on the main version of the firmware. If main version of the firmware is the version number shown below, update to the latest firmware before use.  
 - PT-RQ32K/PT-RZ31K/PT-RS30K: Earlier than 3.00  
 - PT-RZ21K/PT-RS20K: Earlier than 2.00

**Dimensions**

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



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

Figure attached to the [Group A, PT-RQ35K2/RZ34K2/RQ35K/RZ34K] projector

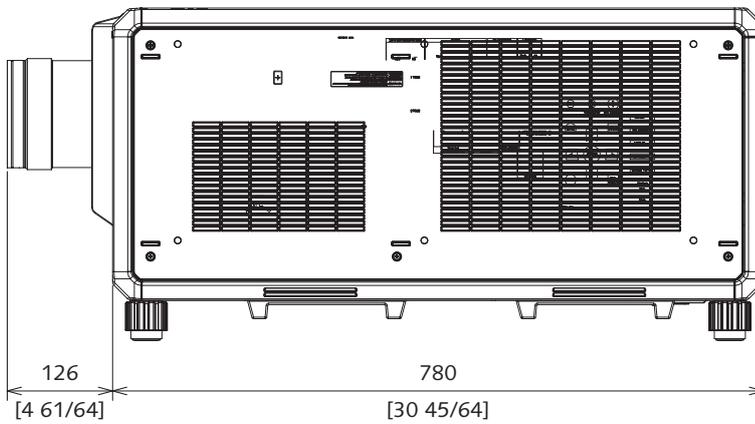


Figure attached to the [Group B, PT-RQ25K/RQ18K/RZ24K/RZ17K/RZ14K] projector

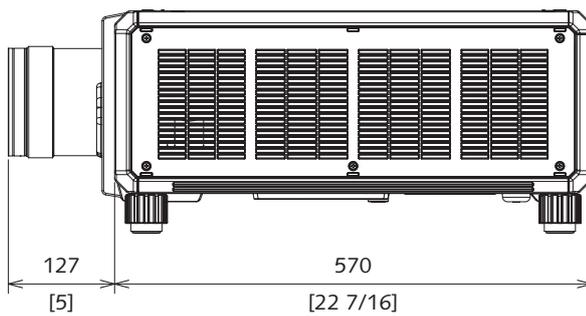
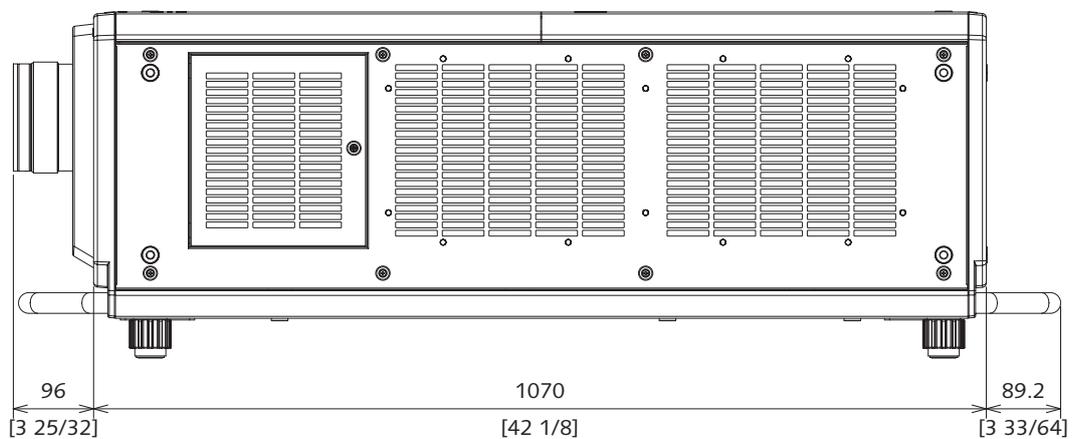
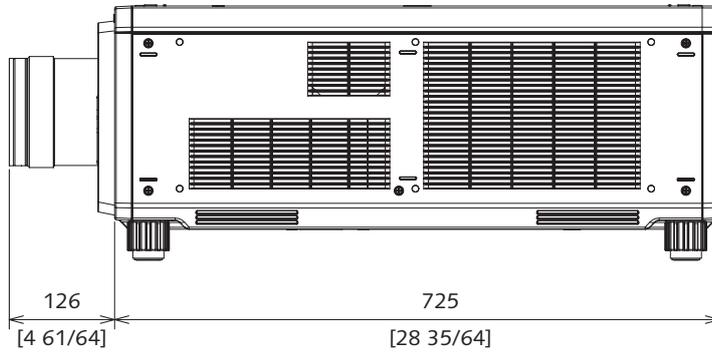


Figure attached to the [Group C, PT-RQ32K/RZ31K/RS30K] projector



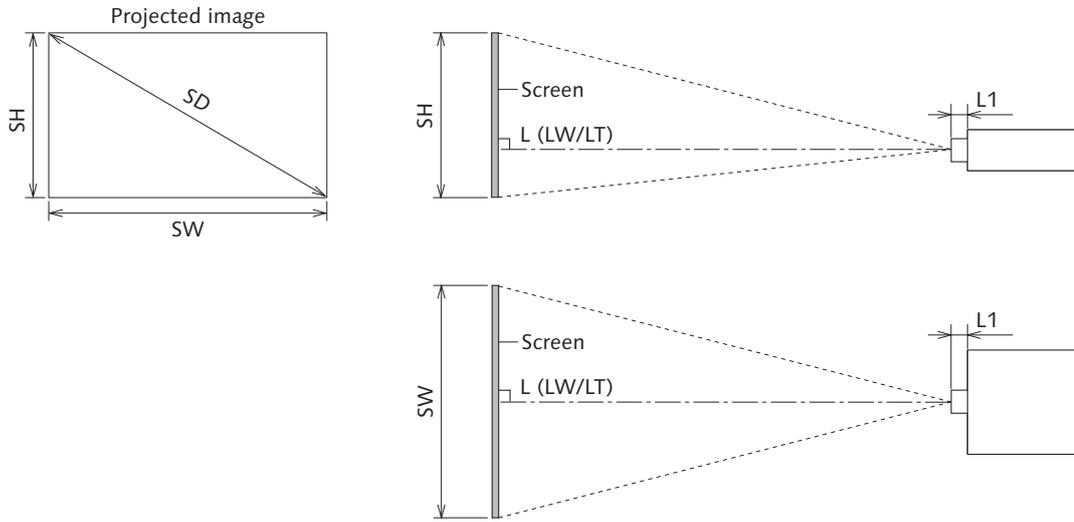
unit : mm [inch]  
This illustration is not drawn to scale.

Figure attached to the [Group D, PT-RQ22K/RZ21K/RS20K/RZ16K] 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.

SH	Projected image height
SW	Projected image width
SD	Projected image size
L	Projection distance (distance from the front end of the projection lens to the screen)
	LW Minimum distance
	LT Maximum distance
L1	Lens protrusion dimension (distance from the front surface of the projector to the front end of the projection lens)

Unit : m

Projector model	Dimension for L1 (approximate value)
PT-RQ35K2/RZ34K2/RQ35K/RZ34K	0.126
PT-RQ25K/RQ18K/RZ24K/RZ17K/RZ14K	0.127
PT-RQ32K/RZ31K/RZ30K	0.096
PT-RQ22K/RZ21K/RS20K/RZ16K	0.126

## Projection distance

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

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

Screen aspect ratio 16:10

Unit: meters

Projector model				PT-RQ35K2/PT-RZ34K2 PT-RQ35K/PT-RZ34K PT-RZ31K/PT-RZ21K PT-RZ16K		PT-RQ25K/PT-RZ24K PT-RQ18K/PT-RZ17K PT-RZ14K		PT-RQ32K PT-RQ22K	
Throw ratio				1.67-2.41:1		2.00-2.90:1		1.79-2.59:1	
Projected image size				Projection distance (L)					
Diagonal (SD)		Height (SH)	Width (SW)	Min (LW)	Max (LT)	Min (LW)	Max (LT)	Min (LW)	Max (LT)
m	inches								
1.78	70	0.942	1.508	2.46	3.58	2.96	4.32	2.63	3.85
2.03	80	1.077	1.723	2.83	4.11	3.40	4.95	3.02	4.42
2.29	90	1.212	1.939	3.20	4.63	3.84	5.59	3.41	4.99
2.54	100	1.346	2.154	3.56	5.16	4.28	6.22	3.80	5.56
3.05	120	1.615	2.585	4.29	6.22	5.15	7.49	4.58	6.69
3.81	150	2.019	3.231	5.39	7.80	6.46	9.39	5.75	8.39
5.08	200	2.692	4.308	7.22	10.44	8.65	12.56	7.70	11.23
6.35	250	3.365	5.385	9.04	13.08	10.83	15.73	9.65	14.07
7.62	300	4.039	6.462	10.87	15.72	13.02	18.90	11.60	16.90
8.89	350	4.712	7.539	12.70	18.36	15.20	22.07	13.55	19.74
10.16	400	5.385	8.616	14.53	21.00	17.39	25.24	15.50	22.58
12.70	500	6.731	10.77	18.18	26.28	21.75	31.57	19.40	28.25
15.24	600	8.077	12.923	21.84	31.56	26.12	37.91	23.30	33.93
17.78	700	9.423	15.077	25.49	36.84	30.49	44.25	27.20	39.60
20.32	800	10.770	17.231	29.15	42.12	34.86	50.59	31.10	45.28
22.86	900	12.116	19.385	32.80	47.40	39.23	56.93	34.99	50.95
25.40	1000	13.462	21.539	36.46	52.69	43.60	63.27	38.89	56.62

Screen aspect ratio 16:10

Unit: feet

Projector model				PT-RQ35K2/PT-RZ34K2 PT-RQ35K/PT-RZ34K PT-RZ31K/PT-RZ21K PT-RZ16K		PT-RQ25K/PT-RZ24K PT-RQ18K/PT-RZ17K PT-RZ14K		PT-RQ32K PT-RQ22K	
Throw ratio				1.67-2.41:1		2.00-2.90:1		1.79-2.59:1	
Projected image size				Projection distance (L)					
Diagonal (SD)		Height (SH)	Width (SW)	Min (LW)	Max (LT)	Min (LW)	Max (LT)	Min (LW)	Max (LT)
m	inches								
1.78	70	3.091	4.948	8.09	11.74	9.73	14.17	8.64	12.64
2.03	80	3.533	5.653	9.28	13.47	11.16	16.25	9.92	14.50
2.29	90	3.976	6.362	10.48	15.20	12.59	18.33	11.20	16.37
2.54	100	4.416	7.067	11.68	16.93	14.03	20.41	12.48	18.23
3.05	120	5.299	8.481	14.08	20.40	16.90	24.57	15.04	21.95
3.81	150	6.624	10.600	17.68	25.60	21.20	30.80	18.88	27.54
5.08	200	8.832	14.134	23.67	34.26	28.36	41.20	25.27	36.84
6.35	250	11.040	17.667	29.67	42.92	35.53	51.60	31.67	46.15
7.62	300	13.251	21.201	35.67	51.58	42.70	62.00	38.06	55.46
8.89	350	15.459	24.734	41.66	60.25	49.87	72.40	44.46	64.77
10.16	400	17.667	28.268	47.66	68.91	57.04	82.79	50.85	74.08
12.70	500	22.083	35.335	59.65	86.23	71.37	103.59	63.65	92.69
15.24	600	26.499	42.398	71.64	103.56	85.71	124.39	76.44	111.31
17.78	700	30.915	49.465	83.63	120.88	100.05	145.18	89.23	129.93
20.32	800	35.335	56.532	95.62	138.20	114.38	165.98	102.02	148.54
22.86	900	39.751	63.599	107.62	155.53	128.72	186.77	114.81	167.16
25.40	1000	44.167	70.666	119.61	172.85	143.06	207.57	127.60	185.78

Zoom Lens

Screen aspect ratio 16:9

Unit: meters

Projector model			PT-RQ35K2/PT-RZ34K2 PT-RQ35K/PT-RZ34K PT-RZ31K/PT-RZ21K PT-RZ16K	PT-RQ25K/PT-RZ24K PT-RQ18K/PT-RZ17K PT-RZ14K	PT-RQ32K PT-RQ22K	PT-RS30K PT-RS20K					
Throw ratio			1.67-2.41:1		2.01-2.90:1		1.78-2.59:1		1.80-2.61:1		
Projected image size			Projection distance (L)								
Diagonal (SD)		Height (SH)	Width (SW)	Min (LW)	Max (LT)	Min (LW)	Max (LT)	Min (LW)	Max (LT)	Min (LW)	Max (LT)
m	inches										
1.78	70	0.872	1.550	2.54	3.68	3.05	4.44	2.71	3.96	2.74	3.99
2.03	80	0.996	1.771	2.91	4.22	3.50	5.09	3.11	4.55	3.14	4.58
2.29	90	1.121	1.992	3.29	4.77	3.95	5.74	3.51	5.13	3.55	5.17
2.54	100	1.245	2.214	3.66	5.31	4.40	6.40	3.91	5.71	3.95	5.75
3.05	120	1.494	2.657	4.41	6.39	5.30	7.70	4.71	6.88	4.76	6.93
3.81	150	1.868	3.321	5.54	8.02	6.64	9.65	5.92	8.63	5.98	8.69
5.08	200	2.491	4.428	7.42	10.74	8.89	12.91	7.92	11.55	8.00	11.62
6.35	250	3.113	5.535	9.30	13.45	11.13	16.17	9.92	14.46	10.02	14.56
7.62	300	3.736	6.641	11.18	16.16	13.38	19.43	11.93	17.38	12.05	17.50
8.89	350	4.358	7.748	13.05	18.88	15.63	22.68	13.93	20.29	14.07	20.43
10.16	400	4.981	8.855	14.93	21.59	17.87	25.94	15.93	23.21	16.09	23.37
12.70	500	6.226	11.069	18.69	27.02	22.36	32.46	19.94	29.04	20.14	29.24
15.24	600	7.472	13.283	22.45	32.44	26.85	38.97	23.95	34.87	24.19	35.11
17.78	700	8.717	15.497	26.20	37.87	31.34	45.49	27.96	40.71	28.23	40.98
20.32	800	9.962	17.710	29.96	43.30	35.84	52.00	31.96	46.54	32.28	46.85
22.86	900	11.207	19.924	33.72	48.73	40.33	58.51	35.97	52.37	36.33	52.72
25.40	1000	12.453	22.138	37.47	54.15	44.82	65.03	39.98	58.20	40.37	58.60

Screen aspect ratio 16:9

Unit: feet

Projector model			PT-RQ35K2/PT-RZ34K2 PT-RQ35K/PT-RZ34K PT-RZ31K/PT-RZ21K PT-RZ16K	PT-RQ25K/PT-RZ24K PT-RQ18K/PT-RZ17K PT-RZ14K	PT-RQ32K PT-RQ22K	PT-RS30K PT-RS20K					
Throw ratio			1.67-2.41:1		2.01-2.90:1		1.78-2.59:1		1.80-2.61:1		
Projected image size			Projection distance (L)								
Diagonal (SD)		Height (SH)	Width (SW)	Min (LW)	Max (LT)	Min (LW)	Max (LT)	Min (LW)	Max (LT)	Min (LW)	Max (LT)
m	inches										
1.78	70	2.861	5.085	8.32	12.07	10.01	14.57	8.89	13.00	8.98	13.09
2.03	80	3.268	5.810	9.55	13.86	11.48	16.71	10.21	14.92	10.31	15.02
2.29	90	3.678	6.535	10.78	15.64	12.95	18.85	11.52	16.83	11.64	16.95
2.54	100	4.085	7.264	12.02	17.42	14.43	20.98	12.84	18.74	12.97	18.87
3.05	120	4.902	8.717	14.48	20.98	17.37	25.26	15.47	22.57	15.62	22.73
3.81	150	6.129	10.896	18.18	26.32	21.79	31.67	19.41	28.31	19.61	28.51
5.08	200	8.173	14.528	24.34	35.22	29.16	42.36	25.98	37.88	26.24	38.14
6.35	250	10.213	18.159	30.50	44.13	36.53	53.05	32.56	47.45	32.88	47.77
7.62	300	12.257	21.788	36.67	53.03	43.90	63.73	39.13	57.01	39.52	57.40
8.89	350	14.298	25.420	42.83	61.93	51.26	74.42	45.70	66.58	46.16	67.03
10.16	400	16.342	29.052	48.99	70.83	58.63	85.11	52.28	76.15	52.80	76.66
12.70	500	20.427	36.316	61.32	88.64	73.37	106.48	65.42	95.28	66.07	95.93
15.24	600	24.514	43.579	73.64	106.45	88.10	127.86	78.57	114.42	79.35	115.19
17.78	700	28.599	50.843	85.97	124.25	102.84	149.23	91.72	133.55	92.63	134.45
20.32	800	32.684	58.104	98.29	142.06	117.57	170.60	104.86	152.68	105.90	153.72
22.86	900	36.768	65.367	110.62	159.86	132.31	191.98	118.01	171.82	119.18	172.98
25.40	1000	40.856	72.631	122.94	177.67	147.04	213.35	131.16	190.95	132.46	192.24

Zoom Lens

Screen aspect ratio 4:3

Unit: meters

Projector model			PT-RQ35K2/PT-RZ34K2 PT-RQ35K/PT-RZ34K PT-RZ31K/PT-RZ21K PT-RZ16K	PT-RQ25K/PT-RZ24K PT-RQ18K/PT-RZ17K PT-RZ14K	PT-RQ32K PT-RQ22K	PT-RS30K PT-RS20K					
Throw ratio			2.01-2.90:1		2.41-3.49:1		2.15-3.12:1		1.80-2.61:1		
Projected image size			Projection distance (L)								
Diagonal (SD)		Height (SH)	Width (SW)	Min (LW)	Max (LT)	Min (LW)	Max (LT)	Min (LW)	Max (LT)	Min (LW)	Max (LT)
m	inches										
1.78	70	1.067	1.422	2.80	4.07	3.37	4.90	3.00	4.38	2.51	3.65
2.03	80	1.219	1.626	3.22	4.66	3.86	5.62	3.44	5.02	2.88	4.19
2.29	90	1.372	1.829	3.63	5.26	4.36	6.34	3.88	5.66	3.25	4.73
2.54	100	1.524	2.032	4.04	5.86	4.85	7.06	4.32	6.31	3.62	5.27
3.05	120	1.829	2.438	4.87	7.05	5.84	8.49	5.20	7.59	4.36	6.35
3.81	150	2.286	3.048	6.11	8.85	7.33	10.64	6.53	9.52	5.48	7.97
5.08	200	3.048	4.064	8.18	11.84	9.80	14.23	8.73	12.73	7.33	10.66
6.35	250	3.810	5.080	10.25	14.83	12.27	17.82	10.94	15.94	9.19	13.35
7.62	300	4.572	6.096	12.32	17.81	14.75	21.41	13.15	19.15	11.05	16.05
8.89	350	5.334	7.112	14.39	20.80	17.22	25.00	15.35	22.36	12.91	18.74
10.16	400	6.096	8.128	16.46	23.79	19.69	28.58	17.56	25.58	14.76	21.44
12.70	500	7.620	10.160	20.60	29.77	24.64	35.76	21.97	32.00	18.48	26.83
15.24	600	9.144	12.192	24.73	35.75	29.59	42.94	26.39	38.42	22.19	32.22
17.78	700	10.668	14.224	28.87	41.73	34.53	50.11	30.80	44.85	25.91	37.61
20.32	800	12.192	16.256	33.01	47.70	39.48	57.29	35.21	51.27	29.62	43.00
22.86	900	13.716	18.288	37.15	53.68	44.43	64.46	39.63	57.70	33.34	48.39
25.40	1000	15.240	20.320	41.29	59.66	49.37	71.64	44.04	64.12	37.05	53.78

Screen aspect ratio 4:3

Unit: feet

Projector model			PT-RQ35K2/PT-RZ34K2 PT-RQ35K/PT-RZ34K PT-RZ31K/PT-RZ21K PT-RZ16K	PT-RQ25K/PT-RZ24K PT-RQ18K/PT-RZ17K PT-RZ14K	PT-RQ32K PT-RQ22K	PT-RS30K PT-RS20K					
Throw ratio			2.01-2.90:1		2.41-3.49:1		2.15-3.12:1		1.80-2.61:1		
Projected image size			Projection distance (L)								
Diagonal (SD)		Height (SH)	Width (SW)	Min (LW)	Max (LT)	Min (LW)	Max (LT)	Min (LW)	Max (LT)	Min (LW)	Max (LT)
m	inches										
1.78	70	3.501	4.665	9.19	13.34	11.05	16.09	9.83	14.36	8.22	11.99
2.03	80	3.999	5.335	10.55	15.30	12.68	18.44	11.28	16.47	9.44	13.76
2.29	90	4.501	6.001	11.91	17.26	14.30	20.80	12.72	18.58	10.66	15.52
2.54	100	5.000	6.667	13.27	19.22	15.92	23.15	14.17	20.69	11.88	17.29
3.05	120	6.001	7.999	15.98	23.15	19.17	27.86	17.07	24.90	14.32	20.83
3.81	150	7.500	10.000	20.06	29.03	24.04	34.92	21.41	31.22	17.97	26.13
5.08	200	10.000	13.333	26.84	38.84	32.15	46.70	28.65	41.76	24.06	34.97
6.35	250	12.500	16.667	33.63	48.64	40.27	58.47	35.89	52.30	30.16	43.81
7.62	300	15.000	20.000	40.42	58.45	48.38	70.24	43.13	62.84	36.25	52.66
8.89	350	17.500	23.333	47.21	68.25	56.50	82.01	50.37	73.38	42.34	61.50
10.16	400	20.000	26.667	53.99	78.06	64.61	93.78	57.61	83.91	48.44	70.34
12.70	500	25.000	33.333	67.57	97.67	80.84	117.32	72.09	104.99	60.62	88.02
15.24	600	30.000	40.000	81.15	117.29	97.07	140.87	86.57	126.07	72.81	105.70
17.78	700	35.000	46.667	94.72	136.90	113.30	164.41	101.05	147.14	85.00	123.38
20.32	800	40.000	53.333	108.30	156.51	129.53	187.95	115.53	168.22	97.18	141.06
22.86	900	45.000	60.000	121.87	176.12	145.76	211.49	130.01	189.29	109.37	158.75
25.40	1000	50.000	66.667	135.45	195.74	161.99	235.04	144.49	210.37	121.56	176.43

Zoom Lens

Screen aspect ratio 21:9

Unit: meters

Projector model			PT-RQ25K/PT-RZ24K PT-RQ18K/PT-RZ17K PT-RZ14K		
Throw ratio			2.01-2.91:1		
Projected image size			Projection distance (L)		
Diagonal (SD)		Height (SH)	Width (SW)	Min (LW)	Max (LT)
m	inches				
1.78	70	0.691	1.638	3.23	4.70
2.03	80	0.790	1.872	3.71	5.39
2.29	90	0.889	2.106	4.18	6.08
2.54	100	0.987	2.340	4.66	6.77
3.05	120	1.185	2.808	5.61	8.15
3.81	150	1.481	3.510	7.03	10.22
5.08	200	1.975	4.681	9.41	13.66
6.35	250	2.468	5.851	11.78	17.11
7.62	300	2.962	7.021	14.16	20.55
8.89	350	3.456	8.191	16.53	24.00
10.16	400	3.949	9.361	18.91	27.44
12.70	500	4.936	11.701	23.66	34.33
15.24	600	5.924	14.042	28.41	41.22
17.78	700	6.911	16.382	33.16	48.11
20.32	800	7.898	18.722	37.91	55.00
22.86	900	8.886	21.062	42.66	61.89
25.40	1000	9.873	23.403	47.41	68.78

Screen aspect ratio 21:9

Unit: feet

Projector model			PT-RQ25K/PT-RZ24K PT-RQ18K/PT-RZ17K PT-RZ14K		
Throw ratio			2.01-2.91:1		
Projected image size			Projection distance (L)		
Diagonal (SD)		Height (SH)	Width (SW)	Min (LW)	Max (LT)
m	inches				
1.78	70	2.267	5.374	10.60	15.43
2.03	80	2.592	6.142	12.16	17.69
2.29	90	2.917	6.909	13.72	19.96
2.54	100	3.238	7.677	15.28	22.22
3.05	120	3.888	9.213	18.39	26.74
3.81	150	4.859	11.516	23.07	33.52
5.08	200	6.480	15.358	30.86	44.82
6.35	250	8.097	19.196	38.65	56.12
7.62	300	9.718	23.035	46.44	67.43
8.89	350	11.339	26.873	54.24	78.73
10.16	400	12.956	30.712	62.03	90.03
12.70	500	16.194	38.389	77.61	112.64
15.24	600	19.436	46.070	93.20	135.24
17.78	700	22.674	53.747	108.78	157.85
20.32	800	25.912	61.424	124.36	180.45
22.86	900	29.154	69.101	139.95	203.06
25.40	1000	32.392	76.781	155.53	225.66

### 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 the value.

The unit of all the formulae is m. (Values obtained by the following calculation formulae contain a slight error.)  
When calculating the value using image size designation (value in inches), multiply the value in inches by 0.0254 and substitute it into SD in the formula.

#### Screen aspect ratio 16:10

Unit: m

Projector model	Projection distance (L) formula	
	Min. (LW)	Max. (LT)
PT-RQ35K2/RZ34K2 PT-RQ35K/RZ34K PT-RZ31K/RZ21K/RZ16K	$=1.4390 \times SD - 0.0941$	$=2.0789 \times SD - 0.1187$
PT-RQ25K/RQ18K PT-RZ24K/RZ17K/RZ14K	$=1.7204 \times SD - 0.0941$	$=2.4955 \times SD - 0.1187$
PT-RQ32K/RQ22K	$=1.5349 \times SD - 0.0941$	$=2.2340 \times SD - 0.1187$

#### Screen aspect ratio 16:9

Unit: m

Projector model	Projection distance (L) formula	
	Min. (LW)	Max. (LT)
PT-RQ35K2/RZ34K2 PT-RQ35K/RZ34K PT-RZ31K/RZ21K/RZ16K	$=1.4790 \times SD - 0.0941$	$=2.1367 \times SD - 0.1187$
PT-RQ25K/RQ18K PT-RZ24K/RZ17K/RZ14K	$=1.7682 \times SD - 0.0941$	$=2.5649 \times SD - 0.1187$
PT-RQ32K/RQ22K	$=1.5776 \times SD - 0.0941$	$=2.2961 \times SD - 0.1187$
PT-RS30K/RS20K	$=1.5932 \times SD - 0.0941$	$=2.3116 \times SD - 0.1187$

#### Screen aspect ratio 4:3

Unit: m

Projector model	Projection distance (L) formula	
	Min. (LW)	Max. (LT)
PT-RQ35K2/RZ34K2 PT-RQ35K/RZ34K PT-RZ31K/RZ21K/RZ16K	$=1.6291 \times SD - 0.0941$	$=2.3535 \times SD - 0.1187$
PT-RQ25K/RQ18K PT-RZ24K/RZ17K/RZ14K	$=1.9476 \times SD - 0.0941$	$=2.8251 \times SD - 0.1187$
PT-RQ32K/RQ22K	$=1.7376 \times SD - 0.0941$	$=2.5291 \times SD - 0.1187$
PT-RS30K/RS20K	$=1.4624 \times SD - 0.0941$	$=2.1218 \times SD - 0.1187$

#### Screen aspect ratio 21:9

Unit: m

Projector model	Projection distance (L) formula	
	Min. (LW)	Max. (LT)
PT-RQ25K/RQ18K PT-RZ24K/RZ17K/RZ14K	$=1.8701 \times SD - 0.0941$	$=2.7126 \times SD - 0.1187$

**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.

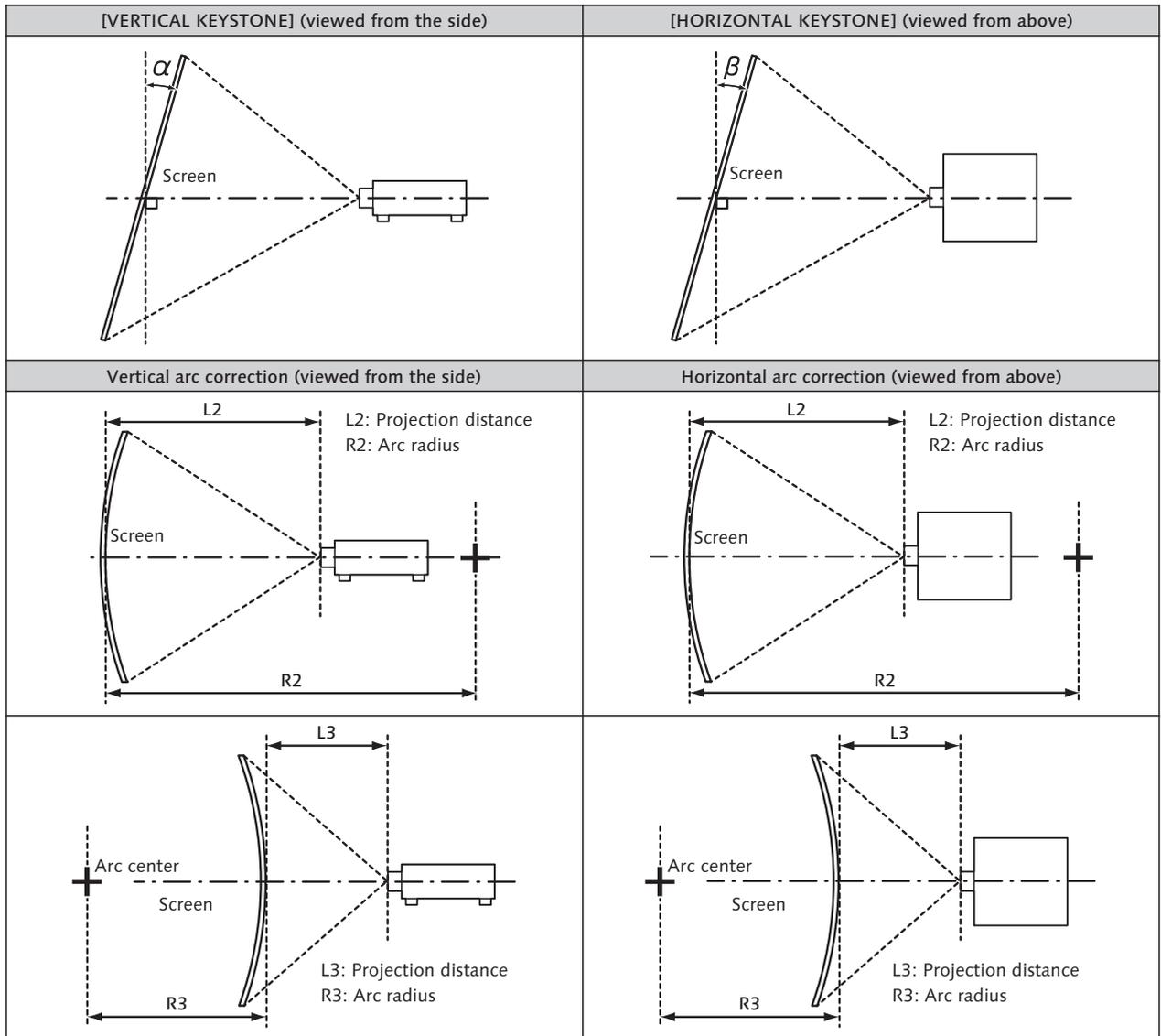
Following figure shows the adjustment range when the projector is installed on the floor.

Projector model	PT-RQ35K2/PT-RZ34K2/PT-RQ35K/PT-RZ34K/PT-RZ31K/ PT-RZ21K/PT-RZ16K	PT-RQ25K/PT-RZ24K/PT-RQ18K/PT-RZ17K/PT-RZ14K
Lens shift range		
Lens shift range		

**Note**

- The home position of the projector a point of origin position for the lens shift (i.e., vertical and horizontal positions of the lens) based on the results of lens calibration. It is not the optical center position of the screen.

[GEOMETRY] projection range



Projector model	Only [KEYSTONE] used <sup>1</sup>		[KEYSTONE] and [CURVED CORRECTION] used together				Only [CURVED CORRECTION] used	
	Vertical keystone correction angle $\alpha$ (°)	Horizontal keystone correction angle $\beta$ (°)	Vertical keystone correction angle $\alpha$ (°)	Horizontal keystone correction angle $\beta$ (°)	Min. value of R2/L2	Min. value of R3/L3	Min. value of R2/L2	Min. value of R3/L3
PT-RQ35K2/PT-RZ34K2 PT-RQ35K/PT-RZ34K	±40	±40	±20	±15	0.7	1.3	0.4	0.7
PT-RQ25K/PT-RZ24K PT-RQ18K/PT-RZ17K PT-RZ14K								
PT-RZ31K/PT-RS30K PT-RQ22K/PT-RZ21K PT-RS20K/PT-RZ16K PT-RQ32K		±15			±15	±10	0.9	1.7

When using the optional upgrade kit (ET-UK20)

Projector model	Only [KEYSTONE] used <sup>1</sup>		[KEYSTONE] and [CURVED CORRECTION] used together				Only [CURVED CORRECTION] used	
	Vertical keystone correction angle $\alpha$ (°)	Horizontal keystone correction angle $\beta$ (°)	Vertical keystone correction angle $\alpha$ (°)	Horizontal keystone correction angle $\beta$ (°)	Min. value of R2/L2	Min. value of R3/L3	Min. value of R2/L2	Min. value of R3/L3
PT-RZ31K/PT-RZ21K PT-RZ16K/PT-RS30K PT-RS20K/PT-RQ22K PT-RQ32K	±40	±40	±20	±15	0.7	1.3	0.4	0.7
		±20	±15	±10				

<sup>1</sup> When [VERTICAL KEYSTONE] and [HORIZONTAL KEYSTONE] are used simultaneously, correction cannot be made exceeding total of 55°.

**Note**

- When [GEOMETRY] is used, the focus of the entire screen may be lost as correction increases.
- Make the curved screen a circular arc shape with one part of a perfect circle removed.
- Adjustment range of the [GEOMETRY] items may not match the listed projection range depending on the projection lens. Use this projector within the projection range, otherwise the correction may not work.