

Multiple lens options for greater installation flexibility.



Lens		FL-701	SL-702	SL-712	ML-703	ML-713	LL-704	UL-705
<b>Zoom Ratio</b>		Fixed	x 1.5	x 1.5	x 2.0	x 1.7	x 1.7	x 1.7
<b>F Number</b>		1.8	1.6 (Wide) - 2.0 (Tele)	1.6 (Wide) - 2.0 (Tele)	1.6 (Wide) - 2.9 (Tele)	1.6 (Wide) - 2.0 (Tele)	1.7 (Wide) - 2.0 (Tele)	1.7 (Wide) - 2.0 (Tele)
<b>Focal Length</b>		13 mm	19 mm (Wide) - 29 mm (Tele)	19 mm (Wide) - 29 mm (Tele)	24 mm (Wide) - 48 mm (Tele)	24 mm (Wide) - 47 mm (Tele)	46 mm (Wide) - 79 mm (Tele)	77 mm (Wide) - 133 mm (Tele)
<b>Dimensions (W x H x L)</b>		5.8" x 4.4" x 7.4"	5.8" x 4.4" x 7.0"	5.8" x 4.4" x 7.0"	5.8" x 4.4" x 7.0"	5.8" x 4.4" x 7.8"	5.8" x 4.4" x 8.7"	5.8" x 4.4" x 8.4"
<b>Weight</b>		2.6 lbs.	1.8 lbs.	1.8 lbs.	2.2 lbs.	2.2 lbs.	3.5 lbs.	3.7 lbs.
<b>Supplied Accessories</b>		User's manual, lens cap	User's manual, lens cap	User's manual, lens cap	User's manual, lens cap	User's manual, lens cap	User's manual, lens cap	User's manual, lens cap
<b>Image Size</b>		30" - 600"	30" - 600"	30" - 600"	30" - 600"	30" - 600"	30" - 600"	30" - 600"
<b>Lens Shift Position</b>								
Vertical	8980WU 8980WUB 8984WU 8983W 8983WB 8982W 8981 8981B	1:1	-	10:0-1:1	-	10:1-1:1	10:0-1:1	10:0-1:1
	8970 8972WA	1:1 1:1	9:-1-1:1 5:-1-1:1	9:-1-1:1 5:-1-1:1	9:-1-1:1 5:-1-1:1	9:-1-1:1 5:-1-1:1	9:-1-1:1 5:-1-1:1	9:-1-1:1 5:-1-1:1
	8971 8977 8976SX	1:1	9:1-1:1	9:1-1:1	10:0-1:1	10:1-1:1	9:1-1:1	9:1-1:1
	8973WA 8974WU 8975WU 8975WUA 8979WU 8979WUA 8978W	1:1	10:0-1:1	10:0-1:1	10:-1-1:1	10:-1-1:1	10:0-1:1	10:0-1:1
	8980WU 8980WUB 8984WU 8983W 8983WB 8982W 8981 8981B	1:1	-	6:4-4:6	-	6:4-4:6	6:4-4:6	6:4-4:6
	8970 8972WA	1:1	10:0-0:10	10:0-0:10	10:0-0:10	10:0-0:10	10:0-0:10	10:0-0:10
	8971 8977 8976SX 8973WA 8974WU 8975WU 8975WUA 8979WU 8979WUA 8978W	1:1	6:4-4:6	6:4-4:6	6:4-4:6	6:4-4:6	6:4-4:6	6:4-4:6

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# 700 Series Optional Lenses



A variety of lenses are available to match several screen sizes and installation environments. Projection is possible in diverse installation areas from small conference rooms to auditoriums, convention halls, and other large spaces.

Lens type	Projector	Projection distance for 100" screen (Full screen) (Projector's front panel to screen)	Throw ratio	Projection distances for optional lenses when projecting onto a 100" screen (Full screen)		
<b>FL-701</b> Fixed short throw lens Zoom: Fixed	8981, 8981B	1.7m (67")	0.8			
	8983W, 8983WB, 8982W	1.8m (71")	0.8			
	8980WU, 8980WUB, 8984WU	1.8m (69")	0.8			
	8977, 8971	1.7m (67")	0.8			
	8978W, 8973WA	1.8m (71")	0.8			
	8979WU, 8979WUA, 8975WU, 8975WUA, 8974WU	1.8m (69")	0.8			
	8976SX	1.7m (66")	0.8			
	8970	2.1m (83")	1.0			
	8972WA	2.2m (88")	1.0			
	<b>SL-702</b> <sup>*1</sup> Short throw lens Zoom: x1.5	8977, 8971	2.5 - 3.7m (97" - 145")		1.2 - 1.8	
8978W, 8973WA		2.6 - 3.9m (102" - 154")	1.2 - 1.8			
8979WU, 8979WUA, 8975WU, 8975WUA, 8974WU		2.5 - 3.8m (100" - 151")	1.2 - 1.8			
8976SX		2.4 - 3.7m (96" - 144")	1.2 - 1.8			
8970		3.1 - 4.6m (120" - 181")	1.5 - 2.2			
8972WA		3.2 - 4.9m (127" - 192")	1.5 - 2.2			
<b>SL-712</b> Short throw lens Zoom: x1.5		8981, 8981B	2.5 - 3.7m (97" - 146")	1.2 - 1.8		
	8983W, 8983WB, 8982W	2.6 - 3.9m (102" - 154")	1.2 - 1.8			
	8980WU, 8980WUB, 8984WU	2.5 - 3.8m (100" - 151")	1.2 - 1.8			
	8977, 8971	2.5 - 3.7m (97" - 145")	1.2 - 1.8			
	8978W, 8973WA	2.6 - 3.9m (102" - 154")	1.2 - 1.8			
	8979WU, 8979WUA, 8975WU, 8975WUA, 8974WU	2.5 - 3.8m (100" - 151")	1.2 - 1.8			
	8976SX	2.4 - 3.7m (96" - 144")	1.2 - 1.8			
	8970	3.1 - 4.6m (120" - 181")	1.5 - 2.2			
	8972WA	3.2 - 4.9m (127" - 192")	1.5 - 2.2			
	<b>ML-703</b> <sup>*2</sup> Middle throw lens Zoom: x2.0	8977, 8971	3.1 - 6.2m (122" - 242")	1.5 - 3.0		
8978W, 8973WA		3.3 - 6.5m (129" - 257")	1.5 - 3.0			
8979WU, 8979WUA, 8975WU, 8975WUA, 8974WU		3.2 - 6.4m (127" - 252")	1.5 - 3.0			
8976SX		3.1 - 6.1m (121" - 241")	1.5 - 3.0			
8970		3.9 - 7.7m (153" - 303")	1.9 - 3.8			
8972WA		4.1 - 8.1m (162" - 321")	1.9 - 3.8			
<b>ML-713</b> Middle throw lens Zoom: x1.7		8981, 8981B	3.6 - 6.1m (142" - 240")	1.7 - 3.0		
		8983W, 8983WB, 8982W	3.8 - 6.4m (149" - 252")	1.7 - 3.0		
	8980WU, 8980WUB, 8984WU	3.7 - 6.3m (146" - 248")	1.7 - 3.0			
	8977, 8971	3.6 - 6.1m (141" - 239")	1.7 - 3.0			
	8978W, 8973WA	3.8 - 6.4m (148" - 251")	1.7 - 3.0			
	8979WU, 8979WUA, 8975WU, 8975WUA, 8974WU	3.7 - 6.3m (146" - 248")	1.7 - 3.0			
	8976SX	3.6 - 6.0m (140" - 237")	1.7 - 3.0			
	8970	4.5 - 7.6m (176" - 298")	2.2 - 3.7			
	8972WA	4.7 - 8.0m (186" - 315")	2.2 - 3.7			
	<b>LL-704</b> Long throw lens Zoom: x1.7	8981, 8981B	5.9 - 10.0m (232" - 395")	2.8 - 4.9		
8983W, 8983WB, 8982W		6.2 - 10.5m (244" - 415")	2.8 - 4.9			
8980WU, 8980WUB, 8984WU		6.1 - 10.3m (240" - 407")	2.8 - 4.9			
8977, 8971		5.9 - 10.0m (231" - 392")	2.8 - 4.9			
8978W, 8973WA		6.2 - 10.5m (244" - 415")	2.8 - 4.9			
8979WU, 8979WUA, 8975WU, 8975WUA, 8974WU		6.1 - 10.3m (240" - 407")	2.8 - 4.9			
8976SX		5.8 - 9.9m (229" - 389")	2.8 - 4.9			
8970		7.3 - 12.4m (288" - 490")	3.6 - 6.1			
8972WA		7.8 - 13.2m (305" - 520")	3.6 - 6.1			
<b>UL-705</b> Ultra long throw lens Zoom: x1.7		8981, 8981B	10.0 - 17.0m (395" - 671")	4.9 - 8.3		
	8983W, 8983WB, 8982W	10.5 - 17.9m (415" - 705")	4.9 - 8.3			
	8980WU, 8980WUB, 8984WU	10.3 - 17.6m (407" - 691")	4.9 - 8.3			
	8977, 8971	10.0 - 16.9m (393" - 667")	4.9 - 8.3			
	8978W, 8973WA	10.5 - 17.9m (415" - 705")	4.9 - 8.3			
	8979WU, 8979WUA, 8975WU, 8975WUA, 8974WU	10.3 - 17.6m (407" - 691")	4.9 - 8.3			
	8976SX	9.9 - 16.8m (390" - 662")	4.9 - 8.3			
	8970	12.4 - 21.1m (487" - 830")	6.0 - 10.3			
	8972WA	13.1 - 22.3m (516" - 879")	6.0 - 10.3			

\*1 SL-702 comes standard on the 8976SX / 8970 / 8972WA.

\*2 ML-703 comes standard on the 8977 / 8971 / 8979WU / 8979WUA / 8975WU / 8975WUA / 8974WU / 8978W / 8973WA.

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