

High-quality 5 MP telecentric lenses (SWH series)

LS-TC-SWH series · Telecentric lenses · 180 models



Models

Model	Mount	Magnification (x)	Working distance (mm)	Max sensor size (dia. mm)	Image-side F/#	Object-side telecentricity (deg max)	Image-side distortion (% max)
LS-SWH10X65W	C	10.0	63	11.0(2/3")	39	<0.1	<0.1
LS-SWH10X65WC	C	10.0	63	11.0(2/3")	39	<0.1	<0.1
LS-SWH75X65W	C	7.5	65	11.0(2/3")	32	0.1	0.1
LS-SWH75X65WC	C	7.5	65	11.0(2/3")	32	0.1	0.1
LS-SWH75X65WCGD	C	7.5	65	11.0(2/3")	32	0.1	0.1
LS-SWH75X65WCGDA	C	7.5	65	11.0(2/3")	32	0.1	0.1
LS-SWH8X65W	C	8.0	65	11.0(2/3")	31	<0.1	0.03
LS-SWH8X65WC	C	8.0	65	11.0(2/3")	31	<0.1	0.03
LS-SWH6X110W	C	6.0	110	11.0(2/3")	38.9	<0.1	<0.1
LS-SWH6X110WC	C	6.0	110	11.0(2/3")	38.9	<0.1	<0.1
LS-SWH6X65W	C	6.0	65	11.0(2/3")	24.6	<0.1	0.1
LS-SWH6X65WC	C	6	65	11.0(2/3")	24.6	<0.1	0.1
LS-SWH4X110W	C	4	110	11.0(2/3")	25.6	<0.1	<0.1
LS-SWH4X110WC	C	4	110	11.0(2/3")	25.6	<0.1	<0.1
LS-SWH4X150W	C	4	150	11.0(2/3")	34	0.03	0.4
LS-SWH4X150WC	C	4	150	11.0(2/3")	34	0.03	0.4
LS-SWH4X65W	C	4.0	65	11.0(2/3")	17.9	<0.1	0.13
LS-SWH4X65WC	C	4.0	65	11.0(2/3")	17.9	<0.1	0.13
LS-SWH4X65WCGD	C	4.0	65	11.0(2/3")	17.9	<0.1	0.13

LS-SWH4X65WCGDA	C	4.0	65	11.0(2/3")	17.9	<0.1	0.13
LS-S18WH3X250W	C	3	250	9(1/1.8")	49.4	<0.1	0.7
LS-S18WH3X250WC	C	3	250	9(1/1.8")	49.4	<0.1	0.7
LS-S13WH15X410W	C	1.5	410	6(1/3")	40	<0.1	<0.1
LS-S25WH2X200W	C	2.0	200	7.2(1/2.5")	29.6	<0.1	<0.4
LS-S25WH2X200WC	C	2.0	200	7.2(1/2.5")	29.6	<0.1	<0.4
LS-SWH3X110W	C	3	110	11.0(2/3")	18	0.3	0.1
LS-SWH3X110WC	C	3	110	11.0(2/3")	18	0.3	0.1
LS-SWH3X65W	C	3	65	11.0(2/3")	20.2	<0.1	<0.1
LS-SWH3X65WC	C	3	65	11.0(2/3")	20.2	<0.1	<0.1
LS-SWH25X300W	C	2.5	300	11.0(2/3")	42.3	<0.1	0.8
LS-SWH25X300WC	C	2.5	300	11.0(2/3")	41	<0.1	0.8
LS-S12WH17X200W	C	1.7	200	8(1/2")	16.1	<0.2	0.02
LS-S12WH17X200WC	C	1.7	200	8(1/2")	16.1	<0.2	0.02
LS-SWH20X110WC	-	2	110	11.0(2/3")	18.2	-	-
LS-SWH20X65WC	-	2	65	11.0(2/3")	13.2	-	-
LS-SWH2W65W	C	2	65	11.0(2/3")	13.2	<0.1	<0.1
LS-SWH2X110W	C	2.0	110	11.0(2/3")	18.2	<0.1	<0.1
LS-SWH2X110WCG	C	2.0	110	11.0(2/3")	18.2- Close	<0.1	<0.1
LS-SWH2X110WCT	C	2.0	110	11.0(2/3")	18.2	<0.1	<0.1
LS-SWH2X110WG	C	2.0	110	11.0(2/3")	18.2- Close	<0.1	<0.1
LS-SWH2X135W	C	2.0	135	11.0(2/3")	22.5	0.1	1.1
LS-SWH2X135WC	C	2.0	135	11.0(2/3")	22.5	0.1	1.1
LS-SWH2X150W	C	2.0	150	11.0(2/3")	23	0.01	0.4
LS-SWH2X150WC	C	2.0	150	11.0(2/3")	23	0.01	0.4
LS-SWH2X200W	C	2.0	200	11.0(2/3")	38.1	0.1	0.4
LS-SWH2X200WC	C	2.0	200	11.0(2/3")	38.1	0.1	0.4
LS-SWH2X330W	C	2.0	330	11.0(2/3")	45	<0.1	<0.1
LS-SWH2X330WC	C	2.0	330	11.0(2/3")	45	<0.1	<0.1
LS-SWH2X65W	C	2	65	11.0(2/3")	13.2	<0.1	<0.1
LS-S18WH13X200W	C	1.3	200	9(1/1.8")	30.5	<0.1	0.25
LS-S18WH13X200WC	C	1.3	200	9(1/1.8")	30.5	<0.1	0.25
LS-S18WH13X210W	C	1.3	210	9(1/1.8")	28.9	<0.1	0.3
LS-S13WH08X65W	C	0.8	65	6(1/3")	7.5	<0.2	0.02
LS-S13WH08X65WC	C	0.8	65	6(1/3")	7.5	<0.2	0.02
LS-SWH15X110W	C	1.5	110	11.0(2/3")	20.1	<0.1	1.4
LS-SWH15X110WC	C	1.5	110	11.0(2/3")	20.1	<0.1	1.4

LS-SWH15X135W	C	1.5	135	11.0(2/3")	20.1	0.01	1
LS-SWH15X135WC	C	1.5	135	11.0(2/3")	20.1	0.01	1
LS-SWH15X200W	C	1.5	200	11.0(2/3")	16	0.1	0.05
LS-SWH15X200WC	C	1.5	200	11.0(2/3")	16	0.1	0.05
LS-SWH15X230W	C	1.5	230	11.0(2/3")	29.9	0.1	0.1
LS-SWH15X230WC	C	1.5	230	11.0(2/3")	29.9	0.1	0.1
LS-SWH15X330W	C	1.5	330	11.0(2/3")	30.2	<0.1	1.5
LS-SWH15X330WC	C	1.5	330	11.0(2/3")	30.2	<0.1	1.5
LS-SWH15X410W	C	1.5	410	11.0(2/3")	40	<0.1	0.3
LS-SWH15X410WC	C	1.5	410	11.0(2/3")	40	<0.1	0.3
LS-SWH15X65W	C	1.5	65	11.0(2/3")	12.5	<0.1	<0.1
LS-SWH15X65WC	C	1.5	65	11.0(2/3")	12.5	<0.1	<0.1
LS-SWH15X85W	C	1.5	85	11.0(2/3")	15.9	<0.1	0.1
LS-SWH15X85WC	C	1.5	85	11.0(2/3")	15.9	<0.1	0.1
LS-S12WH10X410W	-	1	410	8.0(1/2")	17.9	-	-
LS-S12WH10X410WC	-	1	410	8.0(1/2")	17.9	-	-
LS-S12WH10X510W	-	1	510	8.0(1/2")	25.7	-	-
LS-S12WH10X510WC	-	1	510	8.0(1/2")	25.7	-	-
LS-S12WH1X120WCS	C	1.0	120	8(1/2")	9.8	Non-telecentric	0.4
LS-S12WH1X120WS	C	1.0	120	8(1/2")	9.8	Non-telecentric	0.4
LS-S12WH1X180W	C	1	180	8(1/2")	11	0.08	0.05
LS-S12WH1X180WC	C	1	180	8(1/2")	11	0.08	0.05
LS-S12WH1X300W	C	1	300	8.0(1/2")	21.2	<0.1	0.8
LS-S12WH1X300WC	C	1	300	8.0(1/2")	21.2	<0.1	0.8
LS-S1WH2X180W	C	2.0	180	16.0(1")	16	<0.1	<0.1
LS-S1WH2X180WC	C	2.0	180	16.0(1")	16	<0.1	<0.1
LS-SWH05X360W	-	0.5	360	4/3"(22.5)	38.3	-	-
LS-SWH13X73WC	C	1.3	73	11.0(2/3")	11.3	0.01	0.3
LS-SWH125X96W	C	1.25	96	11.0(2/3")	12	<0.4	0.14
LS-SWH125X96WC	C	1.25	96	11.0(2/3")	12	<0.4	0.14
LS-SWH125X96WCG	C	1.25	96	11.0(2/3")	12-Close	<0.4	0.14
LS-SWH125X96WCGL	-	1.25	96	11(2/3")	12	-	-
LS-SWH125X96WG	C	1.25	96	11.0(2/3")	12-Close	<0.4	0.14
LS-SWH125X96WGL	-	1.25	96	11(2/3")	12	-	-
LS-SWH10X110WCIR	-	1	110	11(2/3")	9.8	-	-
LS-SWH10X450W	-	1	450	11(2/3")	24.6	-	-
LS-SWH10X450WC	-	1	450	11(2/3")	24.6	-	-
LS-SWH1X110W	C	1.0	110	11.0(2/3")	10.7	<0.1	<0.1
LS-SWH1X110WC	C	1.0	110	11.0(2/3")	10.7	<0.1	<0.1

LS-SWH1X110WCG	C	1.0	110	11.0(2/3")	10.7-Close	<0.1	<0.1
LS-SWH1X110WG	C	1.0	110	11.0(2/3")	10.7-Close	<0.1	<0.1
LS-SWH1X180W	C	1	180	11.0(2/3")	11	<0.1	<0.1
LS-SWH1X180WC	C	1	180	11.0(2/3")	11	<0.1	<0.1
LS-SWH1X330W	C	1	330	11.0(2/3")	28.6	<0.1	<0.1
LS-SWH1X330WC	C	1	330	11.0(2/3")	28.6	<0.1	<0.1
LS-SWH1X410W	C	1.0	410	11.0(2/3")	17.9	<0.1	<0.1
LS-SWH1X410WC	C	1.0	410	11.0(2/3")	17.9	<0.1	<0.1
LS-SWH1X440W	C	1.0	440	11.0(2/3")	24.6	0.7	0.4
LS-SWH1X440WC	C	1.0	440	11.0(2/3")	24.6	0.7	0.4
LS-SWH1X510W	C	1.0	510	11.0(2/3")	25.7	<0.1	<0.1
LS-SWH1X510WC	C	1.0	510	11.0(2/3")	25.7	<0.1	<0.1
LS-SWH1X65W	C	1.0	65	11.0(2/3")	11.1	<0.1	<0.1
LS-SWH1X65WC	C	1.0	65	11.0(2/3")	11.1	<0.1	<0.1
LS-SWH1X700W	C	1.0	700	11.0(2/3")	60.9	<0.1	0.25
LS-S13WH05X65W	C	0.5	65	6(1/3")	9.6	<0.1	0.17
LS-S13WH05X65WC	C	0.5	65	6(1/3")	9.6	<0.1	0.17
LS-S13WH046X90WC	C	0.46	90	6.0(1/3")	10	0.1	0.2
LS-SWH08X110W	C	0.8	110	11.0(2/3")	11.0	<0.1	<0.1
LS-SWH08X110WC	C	0.8	110	11.0(2/3")	11.0	<0.1	<0.1
LS-SWH08X130W	C	0.8	130	11.0(2/3")	12.6	<0.1	<0.1
LS-SWH08X130WC	C	0.8	130	11.0(2/3")	12.6	<0.1	<0.1
LS-SWH08X130WCG	C	0.8	130	11.0(2/3")	12.6-Close	<0.1	<0.1
LS-SWH08X130WG	C	0.8	130	11.0(2/3")	12.6-Close	<0.1	<0.1
LS-SWH08X180W	C	0.8	180	11.0(2/3")	10	0.1	0.03
LS-SWH08X180WC	C	0.8	180	11.0(2/3")	10	0.1	0.03
LS-SWH08X350WCIR	C	0.8	350	11.0(2/3")	15.5	Non-telecentric	0.7
LS-SWH08X65W	C	0.8	65	11.0(2/3")	10	<0.1	<0.1
LS-SWH08X65WC	C	0.8	65	11.0(2/3")	10	<0.1	<0.1
LS-S25WH05X260W	C	0.5	260	7.2(1/2.5")	16.4	<0.1	0.1
LS-S25WH05X260WC	C	0.5	260	7.2(1/2.5")	16.4	<0.1	0.1
LS-SWH1X150W-142-M42	C	1	150	14.2(2K 7um)	16	Object-side telecentric	0.2
LS-SWH075X220W	C	0.75	220	11.0(2/3")	10	0.2	0.05
LS-SWH075X65W	C	0.75	65	11.0(2/3")	10.6	0.006	0.15
LS-SWH075X65WC	C	0.75	65	11.0(2/3")	10.6	0.006	0.15

LS-SWH07X145W	C	0.7	145	11.0(2/3")	16.8	<0.1	<0.1
LS-SWH07X145WC	C	0.7	145	11.0(2/3")	16.8	<0.1	<0.1
LS-SWH07X145WCG	C	0.7	145	11.0(2/3")	13.4-32	<0.1	<0.1
LS-SWH07X145WG	C	0.7	145	11.0(2/3")	13.4-32	<0.1	<0.1
LS-SWH07X70W	C	0.7	70	11.0(2/3")	10	0.01	0.2
LS-SWH07X70WC	C	0.7	70	11.0(2/3")	10	0.01	0.2
LS-S12WH05X180W	C	0.5	180	8(1/2")	10	1.2	0.04
LS-S12WH05X180WC	-	0.5	180	8(1/2")	10	-	-
LS-S12WH05X190W	C	0.5	190	8(1/2")	16.3	<0.1	0.9
LS-S12WH05X350W	C	0.5	350	8(1/2")	17.6	1.3	0.16
LS-S12WH05X350WC	C	0.5	350	8(1/2")	17.6	1.3	0.16
LS-S12WH05X450WCS	C	0.5	450	8(1/2")	11.8	Non-telecentric	0.5
LS-S12WH05X450WS	C	0.5	450	8(1/2")	11.8	Non-telecentric	0.5
LS-S12WH05X465WCS	C	0.5	465	8(1/2")	10.3	Non-telecentric	0.3
LS-S12WH05X465WS	C	0.5	465	8(1/2")	10.3	Non-telecentric	0.3
LS-S12WH05X510W	-	0.5	510	8.0(1/2")	14.2	-	-
LS-S12WH05X510WC	-	0.5	510	8.0(1/2")	14.2	-	-
LS-S1WH1X400W	C	1	410	16.0(1")	10	Non-telecentric	0.04
LS-S18WH05X510W	C	0.5	510	9(1/1.8")	14.2	0.8	<0.1
LS-S18WH05X510WC	C	0.5	510	9(1/1.8")	14.2	0.8	<0.1
LS-SWH06X150W	C	0.6	150	11.0(2/3")	12	<0.5	0.3
LS-SWH06X150WC	C	0.6	150	11.0(2/3")	12	<0.5	0.3
LS-SWH06X158W	C	0.6	158	11.0(2/3")	16.2	0.27	0.3
LS-SWH06X158WC	C	0.6	158	11.0(2/3")	12	0.27	0.3
LS-SWH022X820W	-	-	-	-	-	-	-
LS-SWH03X260W	-	-	-	-	-	-	-
LS-SWH047X400W	-	-	-	-	-	-	-
LS-SWH05X110W	C	0.5	110	11.0(2/3")	9.6	<0.1	<0.1
LS-SWH05X110WC	C	0.5	110	11.0(2/3")	9.6	<0.1	<0.1
LS-SWH05X110WCG	C	0.5	110	11.0(2/3")	9.6-Close	<0.1	<0.1
LS-SWH05X110WG	C	0.5	110	11.0(2/3")	9.6-Close	<0.1	<0.1
LS-SWH05X150WC	C	0.5	150	11.0(2/3")	10	<0.02	0.04
LS-SWH05X150WS	C	0.5	150	11.0(2/3")	13.4	Non-telecentric	0.4
LS-SWH05X180W	-	0.5	180	11(2/3")	10	-	-

LS-SWH05X550W	-	-	-	-	-	-	-
LS-SWH05X580W	-	-	-	-	-	-	-
LS-SWH05X65WC	-	0.5	65	11(2/3")	5	-	-
LS-SWH048X240W-D60	-	0.48	240	11(2/3")	16.3	-	-
LS-SWH045X135W	C	0.45	135	11.0(2/3")	15.3	<0.1	0.7
LS-SWH045X135WC	C	0.45	135	11.0(2/3")	15.3	<0.1	0.7
LS-S12WH03X110W	C	0.3	110	8(1/2")	8	0.08	0.02
LS-S18WH03X110W	C	0.3	110	9(1/1.8")	9	<0.1	<0.1
LS-S18WH03X110WC	C	0.3	110	9(1/1.8")	9	<0.1	<0.1
LS-SWH035X560W	-	0.35	560	11(2/3")	11.7	-	-
LS-S1WH05X600W	-	0.5	600	16(1")	32.8	-	-
LS-S25WH022X250W	C	0.22	250	7.2(1/2.5")	13.3	<0.1	<0.1
LS-SWH03X470W	-	0.3	470	11(2/3")	15.8	-	-
LS-S1WH035X560W	-	0.35	560	16(1")	12.5	-	-
LS-S12WH015X450W	-	0.15	450	8(1/2")	8.3	-	-
LS-SWH035X560W	-	0.35	560	11(2/3")	11.7	-	-
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More values per model (Numerical aperture NA, Object-side resolution (um), Theoretical depth of field (mm), Image-side MTF30 (lp/mm), Outer diameter O.D (mm), Total length TTL (mm), Front filter thread, Measured depth of field as shipped (mm), MTF30, Notes) are on each product page.

Product views

