

# Scanner Lenses

LIST No.	FOCAL LENGTH (mm)	FN <sub>o</sub> .	CONSTRUCTION	DOCUMENT SIZE	IMAGE SIZE (mm)	O.I. DISTANCE (mm)	MAGNIFICATION	HALF ANGLE	ILLUMINATION (%)	DISTORTION (%)	(m i n.)			BARREL SIZE	PRODUCTION	RESOLUTION (DPI)
											l p/mm	S(%)	M(%)			
56-050	5.56	5.00	4群4枚	110.00	5.12	135.00	0.04650	24.1 °	87	-2.04	86.0	60	58	φ8.0×10.5		200
62-056	6.17	5.60	4-4	139.50	6.00	160.00	0.04300	25.2	66	-0.50	100.0	51	44	φ10.0×14.0		200
67-100	6.66	10.00	4-4	75.00	4.50	126.00	0.06000	17.9	80	+0.11	56.0	59	55	φ11.0×10.0		170
74-056	7.35	5.60	3-3	17.50	4.60	45.10	0.26457	13.4	88	-0.07	61.0	57	57	φ9.0×10.0		820
74-040	7.43	4.00	3-3	78.80	4.50	147.00	0.05710	15.9	84	+0.14	34.0	87	78	φ12.0×10.0		100
77-050	7.70	5.00	4-4	69.20	6.55	100.00	0.09460	21.6	73	-2.00	70.0	66	59	φ8.0×7.5		330
95-040	9.53	4.00	4-4	55.00	12.32	65.93	0.22400	28.8	59	-0.19	35.7	53	56	φ14.0×14.0		400
117-045	11.68	4.50	3-3	105.00	11.76	129.50	0.11200	24.1	69	-0.04	35.7	85	81	φ10.0×11.5		200
127-120	12.67	12.00	3-3	65.00	21.00	70.00	0.32300	30.8	53	+0.23	16.0	64	60	φ8.0×9.0		260
149-060	14.94	6.00	5-5	216.00	26.78	160.00	0.12400	37.9	38	-0.47	48.0	59	52	φ16.0×14.2		600 Color
150-040	14.98	4.00	3-3	64.00	14.34	102.06	0.22400	20.8	76	-0.08	35.7	71	67	φ12.0×15.0		400
168-060	16.79	6.00	5-5	216.00	26.78	180.00	0.12400	34.5	45	-0.50	48.0	55	55	φ17.5×16.5		600 Color
168-065	16.82	6.50	4-5	215.90	26.77	180.00	0.12400	34.5	45	-0.31	48.0	61	51	φ18.0×18.0		600 Color
169-060	16.90	6.00	4-5	216.00	26.78	180.00	0.12400	34.4	45	-0.23	48.0	60	59	φ17.5×17.5		600 Color
171-080	17.10	8.00	3-3	950.00	18.34	920.00	0.01930	27.8	60	-0.95	26.0	76	76	φ14.0×12.0		25 Color
174-125	17.36	12.50	3-3	61.00	28.00	82.40	0.45900	27.7	60	-0.15	11.0	73	73	φ10.5×12.0		250
177-045	17.71	4.50	4-4	105.00	23.52	122.46	0.22400	29.6	64	+0.04	36.0	41	49	φ14.0×14.9		400
183-107	18.30	10.70	3-3	880.00	20.16	837.71	0.02291	28.2	59	-0.10	36.0	63	52	φ15.0×15.0		40
188-050	18.82	5.00	4-5	216.00	26.78	200.00	0.12400	31.6	52	-0.30	48.0	67	67	φ17.0×18.5		600 Color
220-057	21.98	5.70	3-3	216.00	20.41	280.50	0.09450	22.7	71	-0.20	63.0	46	52	φ14.0×16.7		300 Color

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											l p/mm	S(%)	M(%)			
222-050	22.15	5.00	5群5枚	226.00	28.02	236.00	0.12400	28.6°	58	-0.20	95.0	37	37	φ22.0×23.5		600 Color
224-060	22.40	6.00	4-5	215.90	26.77	235.90	0.12400	27.5	61	±0	48.0	64	64	φ17.0×20.0		600 Color
231-044	23.13	4.40	3-3	256.00	22.53	313.71	0.08800	23.9	69	-0.16	46.0	51	60	φ17.0×17.0		200
237-125	23.66	12.50	3-3	105.00	28.00	143.79	0.26670	26.4	64	+0.17	19.0	63	63	φ11.5×14.0		250
239-160	23.94	16.00	3-3	69.50	28.67	117.40	0.41250	24.0	70	±0	20.0	51	52	φ11.0×11.0		400
242-057	24.18	5.70	4-4	216.00	23.80	275.60	0.11020	23.4	70	+0.06	72.0	46	48	φ20.0×19.5		400 Color
243-065	24.26	6.50	3-3	216.00	26.78	250.10	0.12400	25.9	64	-0.19	48.0	43	51	φ14.0×14.0		600 Color
244-040	24.35	4.00	4-4	215.90	23.80	276.53	0.11020	23.4	70	-0.23	72.0	46	46	φ20.0×21.5		400
247-060	24.68	6.00	5-5	309.00	36.50	270.00	0.11811	32.8	49	+0.16	50.0	55	53	φ20.0×18.7		600 Color
251-049	25.14	4.90	4-5	216.00	26.78	266.78	0.12400	24.6	67	-0.11	48.0	76	72	φ18.0×23.0		600 Color
252-048	25.21	4.80	4-4	297.00	26.14	346.30	0.08800	25.5	66	-0.10	45.5	68	73	φ20.0×22.8		200
261-070	26.07	7.00	4-5	215.90	40.81	203.64	0.18900	32.3	50	-0.43	42.0	53	49	φ17.0×19.0		1200 Color
274-035	27.41	3.50	4-6	216.00	23.80	301.40	0.11020	21.6	73	-0.10	71.4	47	69	φ22.0×22.0		400
274-090	27.44	9.00	3-4	880.00	20.16	1252.80	0.02300	19.7	79	-0.22	36.0	65	65	φ18.0×16.3		40
277-059A	27.73	5.90	4-4	226.00	37.38	236.00	0.16540	29.2	57	-0.18	72.0	35	35	φ20.5×22.0		600 Color
278-040	27.75	4.00	4-4	231.60	29.18	285.00	0.12600	24.5	67	-0.01	32.0	43	43	φ21.0×21.0		400 Color
280-065	27.96	6.50	4-4	216.00	34.66	235.00	0.16535	28.2	59	+0.22	48.0	48	48	φ16.0×16.0		1600 Color
280-053A	27.99	5.30	3-3	256.30	28.71	314.10	0.11200	24.5	67	-0.13	36.0	54	67	φ17.0×17.0		200
282-070	28.16	7.00	3-3	200.00	33.02	235.00	0.16509	26.3	63	+0.21	36.0	49	59	φ14.0×14.0		1200 Color
283-070	28.27	7.00	3-4	216.00	35.70	236.00	0.16540	28.1	59	+0.11	48.0	41	41	φ14.0×14.0		800 Color

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											l p/mm	S(%)	M(%)			
301-048	30.10	4.80	3群3枚	256.00	28.67	337.00	0.11200	22.9°	71	-0.28	36.0	59	65	φ15.0×13.5		200
309-060	30.88	6.00	4-4	216.00	35.70	260.00	0.16530	25.9	64	-0.20	72.0	35	43	φ18.0×21.8		600 Color
316-048	31.60	4.80	3-3	304.00	26.75	428.60	0.08800	21.1	74	-0.31	46.0	59	65	φ17.0×20.0		200
325-070	32.46	7.00	3-3	215.90	35.70	270.00	0.16540	25.0	66	-0.20	48.0	38	45	φ16.0×14.0		600 Color
347-053	34.71	5.30	4-6	310.00	34.42	380.00	0.11102	24.1	68	-0.05	54.0	62	63	φ21.0×23.5		600 Color
394-070	39.36	7.00	3-4	215.90	40.59	300.00	0.18800	23.2	71	-0.02	42.0	51	51	φ18.0×18.0		600 Color
396-060	39.57	6.00	3-3	215.90	40.80	300.00	0.18900	23.1	69	-0.19	42.0	38	38	φ18.0×18.0		800 Color
405-035A	40.44	3.50	4-6	300.00	33.60	438.52	0.11200	20.7	76	-0.11	72.0	41	41	φ30.0×30.5		400
412-053	41.22	5.30	4-6	310.00	34.42	450.00	0.11102	20.7	75	-0.05	54.0	66	66	φ23.0×27.0		600 Color
413-060	41.28	6.00	4-5	297.00	37.42	410.00	0.12600	22.0	72	+0.16	63.0	47	49	φ23.0×28.0		800 Color
424-056	42.40	5.60	5-7	1,066.80	33.80	1440.00	0.03170	20.9	75	+0.07	125.0	32	32	φ30.0×60.0		400 Color
437-050	43.67	5.00	3-3	309.00	34.31	490.00	0.11100	19.0	78	-0.01	72.0	48	49	φ20.5×20.0		600
460-065	46.00	6.46	4-4	216.00	40.80	349.70	0.18898	20.1	76	-0.06	63.0	43	45	φ18.0×21.5		1200 Color
476-060	47.64	6.00	3-3	108.00	35.64	260.00	0.33000	15.3	85	+0.09	72.0	40	40	φ18.0×18.0		1200 Color
481-056	48.09	5.60	3-3	304.00	33.75	540.00	0.11102	17.3	81	-0.04	68.0	55	56	φ20.0×20.0		600
482-060	48.21	6.00	5-5	215.90	55.08	299.50	0.25512	24.2	68	+0.20	32.0	53	67	φ22.0×22.0		2400 Color
495-042	49.54	4.20	4-6	307.00	34.08	537.40	0.11102	17.3	81	-0.11	106.0	46	46	φ32.0×39.0		600
523-068	52.29	6.80	4-7	304.80	51.84	409.50	0.17008	22.9	63	+0.20	93.0	23	23	φ34.0×38.0		1600 Color
531-060	53.10	6.00	4-6	457.20	28.35	940.00	0.06200	14.2	87	+0.14	95.0	46	45	φ30.0×44.5		600 Color
556-065	55.57	6.50	5-7	639.80	42.72	940.00	0.06680	19.8	77	-0.10	125.0	23	21	φ30.0×40.0		424 Color

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											l p/mm	S(%)	M(%)			
586-060	58.63	6.00	4群6枚	216.00	55.11	350.00	0.25512	20.5 °	75	-0.10	93.0	33	33	φ31.0×35.5		4800 Color
601-040	60.11	4.00	4-7	325.00	51.18	499.90	0.15748	20.1	76	-0.10	25.0	65	75	φ43.0×42.0		400 Color
610-060	61.01	6.00	4-6	238.13	37.50	500.00	0.15748	15.0	85	+0.14	67.0	58	58	φ30.0×42.0		1200 Color
643-060	64.26	6.00	5-7	476.26	37.50	940.00	0.07874	15.1	85	+0.15	100.0	43	43	φ30.0×42.0		400 Color
654-045	65.35	4.50	4-6	297.00	65.42	430.00	0.22028	22.3	66	-0.08	27.0	50	66	φ37.0×42.5		600 Color
687-070	68.73	7.00	4-6	216.00	71.43	354.50	0.33070	21.6	73	-0.16	72.0	31	31	φ34.0×42.0		1200 Color
691-056	69.10	5.60	4-6	468.00	55.50	714.00	0.11860	19.8	77	-0.10	72.0	54	51	φ38.0×42.0		430
734-065	73.41	6.50	4-6	375.00	37.50	901.40	0.10000	12.9	88	+0.05	100.0	40	40	φ30.0×42.5		508 Color
750-070	75.01	7.00	5-5	375.00	37.50	901.10	0.10000	12.9	88	+0.06	100.0	34	34	φ30.0×46.5		508 Color
770-065	77.02	6.50	4-4	309.00	68.07	530.10	0.22030	19.5	77	-0.07	54.0	36	36	φ30.0×32.0		600 Color
810-056A	80.98	5.60	4-5	309.00	73.00	513.90	0.23625	20.2	76	+0.06	50.0	39	43	φ38.0×46.0		600 Color
823-042A	82.25	4.20	4-6	321.73	70.87	540.00	0.22028	19.4	78	-0.09	18.0	72	72	φ45.0×47.5		600 Color
823-056	82.34	5.60	4-7	373.40	75.43	570.80	0.20201	20.7	75	+0.01	56.0	61	64	φ45.0×51.5		570
847-056A	84.66	5.60	4-7	317.50	37.50	901.40	0.11811	11.0	91	+0.11	100.0	47	47	φ30.0×38.0		600 Color
847-056	84.67	5.60	5-7	317.50	37.50	901.40	0.11811	11.2	91	-0.15	100.0	47	46	φ30.0×37.0		600 Color

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