

List of Chromar lenses

Chromar Technology is a privately owned South African company that develops specialised optical systems for space, airborne, naval, military, medical, industrial, security, mining and forestry applications. As of June 2026, Chromar has more than 260 original optical designs. This list shows the published range. Values are design values; image Ø is twice the semi image height. Every lens is tested and supplied with its measured MTF curve; because of manufacturing tolerances, measured MTF is typically 5 to 10% below the design curve. Request any datasheet at www.chromar.co.za/products/.

Catadioptric lenses

EFL (mm)	f/#	Image Ø (mm)	Bands	Status	Notes
27	7	6	VIS NIR SWIR	Designed	Designed only
50	1.3	10	VIS NIR SWIR	Designed	Designed only
100	1.5	10	VIS NIR SWIR MWIR	Designed	Designed only
100	1.5	10	VIS NIR SWIR	Designed	Designed only
100	2	10	VIS NIR SWIR	Designed	Designed only
100	2.4	16	UV	Built	Built
100	3	12	VIS NIR SWIR	Designed	Designed only
100	4	9.6	VIS NIR SWIR	Designed	Designed only
100	5	8	UV VIS NIR SWIR	Designed	Designed only
150	4	14	VIS NIR SWIR	Designed	Designed only
170 C1704308VNS	4.3	16	VIS NIR SWIR	Flight-proven	Built for space applications, in orbit
183	3.2	10	MWIR LWIR	Designed	Designed only
200	1.2	10	VIS NIR SWIR	Designed	Designed for space applications
200	2.4	16	VIS NIR SWIR	Built	Built
200	5	10	VIS NIR SWIR	Designed	Designed only
200	6	10	VIS NIR SWIR	Designed	Designed only
200	8	4	VIS NIR	Prototype	Prototype built
250 C2504007VNS	4	14	VIS NIR SWIR	Flight-proven	Built and qualified for space. Two units launched on SpaceX Transporter-14 (2025), in orbit
250	4	10	VIS NIR SWIR	Built	Built for long-range surveillance
250	4	10	VIS NIR SWIR MWIR	Designed	Designed only
250 C2505005VN	5	10	VIS NIR SWIR	Built	Built, more than 1,000 units
250	7	10	VIS NIR SWIR	Designed	Designed only
264 C2641107VN	1.1	14	VIS NIR SWIR	Flight-proven	Built for space applications, in orbit
270	7	6	VIS NIR	Built	Built for long-range surveillance
285 C2853414VNS	3.4	28	VIS NIR SWIR	Flight-proven	Built for space applications. Very compact, in orbit
300 C3004005VNS	4	10	VIS NIR SWIR	Designed	Designed only
300	7	10	VIS NIR SWIR	Designed	Designed only
310	6	8	VIS NIR	Built	Built for long-range surveillance
320	4	20	VIS NIR SWIR MWIR	Designed	Designed only
345	4.2	28	VIS NIR SWIR	Designed	Designed only
350	1.6	28	VIS NIR SWIR	Designed	Designed only
350	4	12.8	VIS NIR SWIR	Built	Built for long-range surveillance

EFL (mm)	f/#	Image Ø (mm)	Bands	Status	Notes
350	6.4	8	VIS NIR SWIR	Built	Built for long-range surveillance
400	4	16	VIS NIR SWIR	Designed	Designed for space applications
430	2	12.8	VIS NIR	Designed	Designed only
450	1.1	28	VIS NIR	Designed	Designed only
450	2	10	VIS NIR	Designed	Designed only
450	7.8	16	VIS NIR SWIR	Built	Built
C4507808VNS					
450	8.3	12	VIS NIR SWIR	Designed	Designed only
500	4	22	VIS NIR SWIR MWIR	Designed	Designed only
550	1.5	30	VIS NIR	Designed	Designed only
550	6	14	VIS NIR SWIR	Built	Built for long-range surveillance
C5506007VNS					
550	4	22	VIS NIR SWIR	Built	Built for space applications
550	6	28	VIS NIR SWIR	Space-qualified	Built and qualified for space applications
C5506014VNS					
600	6	36	VIS NIR SWIR	Built	Built for space
600	6.2	16	VIS NIR SWIR	Designed	Designed for space applications. Extremely compact
630	7	12	VIS NIR SWIR	Designed	Designed only
640	4.4	22	VIS NIR SWIR	Designed	Designed for space applications
750	8.3	14	VIS NIR SWIR	Built	Built for UAV. Includes switch filter
800	5	34	VIS NIR SWIR	Designed	Designed for space applications
800	7	34	VIS NIR SWIR	Designed	Designed for space applications
845	9	28	VIS NIR SWIR	Flight-proven	Built for a 3U CubeSat, in orbit
850	8.2	16	VIS NIR SWIR	Built	Built for UAV
860	6	32	VIS NIR SWIR	Designed	Designed for space applications
900	5 / 6	14	VIS NIR SWIR	Not stated	Multi-function switch zoom (f/5 and f/6)
C9006007VNS					
950	5	44	VIS NIR SWIR	In development	C950 Pluto. In development for space and UAV/HAPS. ETA Q1 2027
C950 Pluto					
1000	4	24	VIS NIR SWIR	Built	Built for long-range surveillance
1500	5	60	VIS NIR SWIR	In development	In development for space. ETA Q4 2027
1550	7.9	30	VIS NIR SWIR	Designed	Designed only
2000	7	70	VIS NIR SWIR	In development	In development for space. ETA Q1 2028
2500	5.6	70	VIS NIR SWIR	In development	In development for space. ETA Q4 2028

Shaded rows: Kuiper series, a new generation of long-focal-length space lenses in development. Dates are targets.

Refracting lenses

EFL (mm)	f/#	Image Ø (mm)	Bands	Status	Notes
13	6	6.8	VIS NIR	Not stated	Wide-field lens for gunner and commander sight
R0136004V					
16	1.4	6.8	VIS NIR	Flight-proven	Built for space applications. More than 100 in orbit
17	5	6.8	VIS NIR	Designed	Designed only
20	1.5	6.8	UV VIS	Designed	Designed only
21	1.56	6.8	VIS NIR	Flight-proven	Built, star camera. Several in orbit
25	1.4	6.4	VIS NIR	Flight-proven	Built for space applications. Several in orbit
25	5	7.2	NIR SWIR	Designed	Designed only

EFL (mm)	f/#	Image Ø (mm)	Bands	Status	Notes
27 R0275007VN	5	12	VIS NIR	Built	Built for space
29	1.1	4	VIS (mono)	Flight-proven	Built for space applications (monochrome). Several in orbit
30	6	8.8	VIS NIR	Built	Built, about 1,000 units. Gunner and commander sight
35	5	9.6	VIS NIR	Designed	Designed only
50	5	9.6	SWIR	Designed	Designed only
50	5	19.2	VIS	Built	Built. Stabilised sight with high-resolution digital zoom
55	5	6.8	VIS	Designed	Designed only
65	5	8.8	VIS NIR	Built	Built
70	5	8	NIR	Built	Built (a design also exists for VIS NIR)
70 R0705015VN	5	30	VIS NIR	Built	Built for space. Multi-purpose wide angle
90	5	9.6	VIS NIR	Built	Built. Stabilised sight
100	1.4	8	LWIR	Designed	Designed only
100	3	16	NIR SWIR	Designed	Designed only
138	6	10	VIS NIR	Built	Built, about 1,000 units. Gunner and commander sight
140	3	10	VIS NIR	Designed	Designed only
180	4	12	VIS NIR	Built	Built for space
200	6	10.8	NIR	Designed	Designed only
300	2.8	36	VIS	Built	Built, for cinematography
327 R3275060VN	5	120	VIS NIR	Designed	Designed only. 120 mm image diameter, excellent MTF
350	12	28	VIS NIR	Designed	Designed only
400	5	52	VIS NIR	Flight-proven	Built for the South African Sumbandila satellite, flown 2009

Zoom lenses

EFL (mm)	Ratio	f/#	Image Ø (mm)	Narrow FoV	Bands	Notes
9–320	25×	3.8–6.8	4.8	1° at 1080p	VIS	Built. Compact, 173 × 58 × 46 mm. Rugged, excellent boresight
18–430	24×	3–5.6	12.8	1.7° at 1,280 pixels	SWIR	Designed, based on the visual zoom concept

Chromar may change a design or specification to improve a product or to reflect actual performance more closely, while keeping form and fit wherever possible.