

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 performance tested in-house. Request any datasheet at www.chromar.co.za/products/.

Catadioptric lenses

EFL (mm)	f/#	Image Ø (mm)	Bands	Status	Notes
100 C1001505VNSMW	1.5	10	VIS NIR SWIR MWIR	Designed	
100 C1001505VNS	1.5	10	VIS NIR SWIR	Designed	
100 C1002005VNS	2	10	VIS NIR SWIR	Designed	
100 C1002408U	2.4	16	UV	In production	
100 C1003006VNS	3	12	VIS NIR SWIR	Designed	
100 C1004005VNS	4	9.6	VIS NIR SWIR	Designed	
100 C1005004UVNS	5	8	UV VIS NIR SWIR	Designed	
150 C1504007VNS	4	14	VIS NIR SWIR	Designed	
170 C1704308VNS	4.3	16	VIS NIR SWIR	In orbit	Built for space applications, in orbit
183 C1833205MWLW	3.2	10	MWIR LWIR	Designed	
200 C2001205VNS	1.2	10	VIS NIR SWIR	Designed	Designed for space applications
200 C2002408VNS	2.4	16	VIS NIR SWIR	In production	
200 C2005005VNS	5	10	VIS NIR SWIR	Designed	
200 C2006005VNS	6	10	VIS NIR SWIR	Designed	
200 C2008002VN	8	4	VIS NIR	Prototype	Prototype built
250 C2504007VNS	4	14	VIS NIR SWIR	In orbit	Built and qualified for space. Launched with Transporter 14, in orbit
250 C2504005VNS	4	10	VIS NIR SWIR	In production	Built for long-range surveillance
250 C2504005VNSMW	4	10	VIS NIR SWIR MWIR	Designed	
250 C2505005VN	5	10	VIS NIR SWIR	In production	Built, more than 1,000 units
250 C2507005VNS	7	10	VIS NIR SWIR	Designed	
264 C2641107VN	1.1	14	VIS NIR SWIR	In orbit	Built for space applications, in orbit



EFL (mm)	f/#	Image Ø (mm)	Bands	Status	Notes
270 C2707003VN	7	6	VIS NIR	In production	Built for long-range surveillance
285 C2853414VNS	3.4	28	VIS NIR SWIR	In orbit	Built for space applications. Very compact, in orbit
300 C3004005VNS	4	10	VIS NIR SWIR	Designed	
300 C3007005VNS	7	10	VIS NIR SWIR	Designed	
310 C3106004VN	6	8	VIS NIR	In production	Built for long-range surveillance
320 C3204010VNSMW	4	20	VIS NIR SWIR MWIR	Designed	
345 C3454214VNS	4.2	28	VIS NIR SWIR	Designed	
350 C3504006VNS	4	12.8	VIS NIR SWIR	In production	Built for long-range surveillance
350 C3506104VNC	6.1	8	VIS NIR SWIR	In production	Built for long-range surveillance
400 C4004008VNS	4	16	VIS NIR SWIR	Designed	Designed for space applications
430 C4302007VN	2	12.8	VIS NIR	Designed	
450 C4501114VN	1.1	28	VIS NIR	Designed	
450 C4502005VN	2	10	VIS NIR	Designed	
450 C4507808VNS	7.8	16	VIS NIR SWIR	In production	
450 C4508306VNS	8.3	12	VIS NIR SWIR	Designed	
500 C5004011VNSMW	4	22	VIS NIR SWIR MWIR	Designed	
550 C5506007VNS	6	14	VIS NIR SWIR	In production	Built for long-range surveillance
550 C5504011VNS	4	22	VIS NIR SWIR	In production	Built for space applications
550 C5506014VNS	6	28	VIS NIR SWIR	Space qualified	Built and qualified for space applications
600 C6006018	6	36	VIS NIR SWIR	In production	Built for UAV. Space version available
600 C6006208VNS	6.2	16	VIS NIR SWIR	Designed	Designed for space applications. Extremely compact
630 C6307006VNS	7	12	VIS NIR SWIR	Designed	
640 C6404411VNS	4.4	22	VIS NIR SWIR	Designed	Designed for space applications
750 C7508307VNS	8.3	14	VIS NIR SWIR	In production	Built for UAV. Includes switch filter
800 C8005017VNS	5	34	VIS NIR SWIR	Designed	Designed for space applications
800 C8007017VNS	7	34	VIS NIR SWIR	Designed	Designed for space applications
845 C8458814VN	8.8	28	VIS NIR SWIR	In orbit	Built for a 3U CubeSat, in orbit

EFL (mm)	f/#	Image Ø (mm)	Bands	Status	Notes
850 C8508208VNS	8.2	16	VIS NIR SWIR	In production	Built for UAV
860 C8606016VNS	6	32	VIS NIR SWIR	Designed	Designed for space applications
900 C9006007VNS	5 / 6	14	VIS NIR SWIR	Designed	Designed. Multi-function switch zoom (f/5 and f/6)
950 C9505022VNS	5	44	VIS NIR SWIR	In development	Kuiper series, C950 Pluto. In development for Earth-observation satellites, then HAPS and UAV. ETA Q1 2027
1000 C1k04012VNS	4	24	VIS NIR SWIR	In production	Built for long-range surveillance
1130 C1k15023	5	46	VIS NIR SWIR	Designed	
1500 C1k55030VNS	5	60	VIS NIR SWIR	In development	Kuiper series, C1500 Eris. In development for space. ETA Q4 2027
1550 C1k57915VNS	7.9	30	VIS NIR SWIR	Designed	
2000 C2k07035VNS	7	70	VIS NIR SWIR	In development	Kuiper series, C2000 MakeMake. In development for space. ETA Q1 2028
2500 C2k55635VNS	5.6	70	VIS NIR SWIR	In development	Kuiper series, C2500 Haumea. In development for space. ETA Q4 2028

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

Refracting lenses

EFL (mm)	f/#	Image Ø (mm)	Bands	Status	Notes
13 R0136004V	6	6.8	VIS NIR	In production	Built. Wide-field lens for gunner and commander sight
16 R0161404VN	1.4	6.8	VIS NIR	In orbit	Built for space applications. More than 100 in orbit
17 R0175004VN	5	6.8	VIS NIR	Designed	
20 R0201504UV	1.5	6.8	UV VIS	Designed	
21 R0211604VN	1.56	6.8	VIS NIR	In orbit	Built, star camera. Several in orbit
25 R0251404VN	1.4	6.4	VIS NIR	In orbit	Built for space applications. Several in orbit
25 R0255004NS	5	7.2	NIR SWIR	Designed	
27 R0275007VN	5	12	VIS NIR	In production	Built for space
29 R0291202	1.1	4	VIS (mono)	In orbit	Built for space applications (monochrome). Several in orbit
30 R0306005VN	6	8.8	VIS NIR	In production	Built, about 1,000 units. Gunner and commander sight
35 R0355005VN	5	9.6	VIS NIR	Designed	
50 R0505005S	5	9.6	SWIR	Designed	
50 R0505010V	5	19.2	VIS	In production	Built. Stabilised sight with high-resolution digital zoom

EFL (mm)	f/#	Image Ø (mm)	Bands	Status	Notes
55 R0555004V	5	6.8	VIS	Designed	
65 R0655005VN	5	8.8	VIS NIR	In production	
70 R0705005BW	5	8	NIR	In production	Built, about 1,000 units for gunner and commander sights
70 R0705015VN	5	30	VIS NIR	In orbit	Built for space, in orbit. Multi-purpose wide angle
90 R0905005VN	5	9.6	VIS NIR	In production	Built. Stabilised sight
100 R1001404LW	1.4	8	LWIR	Designed	
100 R1003008NS	3	16	NIR SWIR	Designed	
138 R1386005VN	6	10	VIS NIR	In production	Built, about 1,000 units. Gunner and commander sight
140 R1403005VN	3	10	VIS NIR	Designed	
180 R1804006VN	4	12	VIS NIR	In production	Built for space
200 R2006006N	6	10.8	NIR	Designed	
300 R3002818V	2.8	36	VIS	In production	Built, for cinematography
327 R3275060VN	5	120	VIS NIR	Designed	Designed only. 120 mm image diameter, excellent MTF
350 R35010014VN	10	28	VIS NIR	Designed	
400 R4005026VN	5	52	VIS NIR	In orbit	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.