

SLOOH - THE COSMIC CLASSROOM
OBSERVATORIES AND TELESCOPE SPECIFICATIONS

CANARY ISLANDS OBSERVATORY

Located at the Institute of Astrophysics of the Canary Islands (IAC), Observatorio del Teide, Ispano, Tenerife.
Latitude: 28.2970° N (28° 17' 58.92" N)
Longitude: 016.50828° W (016° 30' 29.738" W)
Altitude: 2,372.295m (7,783.15ft)
Time zone: WET
MPC Observatory Code: G40

Basic System Information					Detailed Specification														
					Telescope						Imaging Device			Filters		Image Specification			
Telescope Name	Description	Code Designation	Type and Size	Optimized For	Type	Effective Aperture	Nominal Focal Length	Nominal Native Focal Ratio	Focal Reducer	Nominal Effective Focal Ratio	Model	CCD Type	Pixel Size	Manufacturer	Type	Image Scale at 1x1 binning	North Angle	Field-of-View arcminutes	Resolution
Canary One Half Meter	This is Slooh's premier telescope. Its 20" mirror gives it excellent light gathering capabilities. It's ideal for larger faint objects such as galaxies and nebulae.	T1-HM-508	Pirbright CDK20 (508mm)	Wide-Field DSO CCD imaging.	Corrected Dall-Kirkham	508mm (20")	3454mm (135.98")	f/6.8	None	f/6.8	FLI PL109000	Kodak KAF-16803	12x12µm	Astronom Generation III E-Series	Luminance, Red, Green, Blue, Ha, U-Band (Bessel), I-Band (Bessel)	0.17 arcsecs/pixel	0° (North=Up)	31x37	Binning 1x1: 3056x3056 Binning 2x2: 1528x1528 Binning 3x3: 1018x1018
Canary Two Wide-Field	Second only to the Half Meter telescope, this huge telescope is used to capture large faint objects such as galaxies and nebulae.	T2-WF-432	Pirbright CDK17 (432mm)	Wide-Field DSO CCD imaging.	Corrected Dall-Kirkham	432mm (17")	2938mm (115.71")	f/6.8	None	f/6.8	FLI PL16803	Kodak KAF-16803	9.9µm	Astronom Tri-Balance Generation III E-Series	Luminance, Red, Green, Blue, Ha, B-Band (Bessel), V-Band (Bessel), R-Band (Bessel)	0.63 arcsecs/pixel	0° (North=Up)	43x43	Binning 1x1: 4096x4096 Binning 2x2: 2048x2048 Binning 3x3: 1365x1365
Canary Two Ultra-Wide-Field	This specialized telescope has a huge field-of-view so it's ideal for very large objects such as large bright galaxies and nebulae. It also provides full disk views of the Moon.	T2-UWF-485	TekVix 85GXF (85mm)	Very Wide-Field DSO CCD imaging.	Asychromatic Doublet Refractor Telescope	85mm (3.3")	595mm (23.4")	f/7	0.8x	f/5.6	SME ST-10XME	Kodak KAF-3300E (Class II)	6.8x6.8µm	Astronom Tri-Balance E-Series	Luminance, Red, Green, Blue, Ha	2.94 arcsecs/pixel	0° (North=Up)	107x72	Binning 1x1: 2844x1472 Binning 2x2: 1092x736 Binning 3x3: 728x490
Canary Three Deep Sky	This telescope instrument provides large field-of-view and is equipped with a color CCD camera (color, RGB and RGB images). It is used for most large object types such as galaxies, nebulae and comets.	T3-DS-279	Carlson RASA (279mm)	Wide-Field DSO Single-Sensor Color CCD imaging.	Rossmore Schmidt-Astrograph	279mm (11")	620mm	f/2.22	None	f/2.22	ZWO ASI 294MM Pro Single-Sensor Color	Sony IMX294 CMOS	4.63x4.63µm	Not Applicable	Not Applicable	1.54 arcsecs/pixel	0° (North=Up)	106x72	Binning 1x1: 4144x2822 Binning 2x2: 2072x1411 Binning 3x3: 1388x940
Canary Four Solar System	This telescope is optimized to capture smaller objects such as the planets and planetary nebulas. It also provides excellent close-up views of the Moon. Its small field-of-view makes it unsuitable for many galaxies and large nebulae.	T4-SS-358	Carlson EdgeHD 1400 (358mm)	High Magnification planetary and lunar, and smaller DSOs such as planetary nebulas CCD imaging.	Schmidt-Cassegrain Catadioptric (SCT) Edge+HD	355.6mm (14")	3903mm (154")	f/11	None	f/11	ZWO ASI 294MM Pro Single-Sensor Color	Sony IMX294 CMOS	4.63x4.63µm	Not Applicable	Not Applicable	0.28 arcsecs/pixel	0° (North=Up)	16x12	Binning 1x1: 3358x2536 Binning 2x2: 1679x1268 Binning 3x3: 1119x845
Canary Four Spectroscopy	The Canary Four Spectroscopy is a precision scientific instrument designed for advanced astronomical observations. It features a dedicated spectroscopic diffraction grating area is mounted in tandem with the Canary One Solar System telescope.	T4-SP-480	SubMiniura 80 ED (80mm)	Low resolution spectroscopy.	ED Doublet Refractor Telescope	80mm (3.1")	600mm (31.5")	f/10	None	f/10	ZWO ASI 833MM Pro Cooled Mono Camera	Sony IMX833 CMOS	2.4x2.4µm	Paton Hawkeye	Star Analyser 100 Diffraction Grating	0.62 arcsecs/pixel	0° (North=Up)	57x38	Binning 1x1: 5496x3672 Binning 2x2: 2748x1836 Binning 3x3: 1832x1224
Canary Five Solar	This specialized telescope is equipped with a high-performance video camera that provides an undistorted view of the Sun in its Hi-Alpha bandpass (415 Angstrom bandpass). This allows us to see amazing high contrast detail of active solar regions. There's chroma and other surface features such as sunspots and sun flares. Movies with 4x4x4 resolution images can be taken.	T5-SH-400	Lunt LS60THs (60mm)	Solar Hi-Alpha video stream.	Hi-Alpha Doublet Schmidt Reflector	60mm (2.36")	500mm (19.7")	f/8.3	None	f/8.3	ZWO ASI 588MM Planetary Video Camera	Sony IMX588 CMOS	2.0x2.0µm	Not Applicable	Not Applicable	1.20 arcsecs/pixel	0° (North=Up)	77x43	Binning 1x1: 3840x2880 Binning 2x2: 1920x1060 Binning 3x3: 1280x720

CHILE OBSERVATORY

Located at the La Pontificia Universidad Católica de Chile (PUC), Santa Martina Observatory, La Dicha, Santiago, Chile
Latitude: 33.269° S (33° 16' 8.4" S)
Longitude: 070.534° W (070° 32' 24" W)
Altitude: 1,448.7m (4,754.2ft)
Time zone: CLST
MPC Observatory Code: W68

Basic System Information					Detailed Specification														
					Telescope						Imaging Device			Filters		Image Specification			
Telescope Name	Description	Code Designation	Type and Size	Optimized For	Type	Effective Aperture	Nominal Focal Length	Nominal Native Focal Ratio	Focal Reducer	Nominal Effective Focal Ratio	Model	CCD Type	Pixel Size	Manufacturer	Type	Image Scale at 1x2 binning	North Angle	Field-of-View arcminutes	Resolution
Chile One Wide-Field (Offline for replacement)	This wide-field southern hemisphere telescope is ideal to capture some of the finest objects in southern skies, including galaxies and nebulae as well as the five glacial giants.	C1-WF-358	Carlson EdgeHD 1400 (358mm)	Wide-Field DSO and planetary CCD imaging.	Schmidt-Cassegrain Catadioptric (SCT) Edge+HD	355.6mm (14")	3903mm (154")	f/11	None	f/11	SME STL-1000M	Kodak KAF-11000	9.9µm	Astronom	Luminance, Red, Green, Blue, Clear	0.17 arcsecs/pixel	0° (North=Up)	31x21	Binning 1x1: 4008x2672 Binning 2x2: 2004x1336 Binning 3x3: 1336x889
Chile One Wide-Field (Online in Q4 2025)	This wide-field southern hemisphere telescope is ideal to capture some of the finest objects in southern skies, including galaxies and nebulae as well as the five glacial giants.	C1-WF-358	Carlson EdgeHD 1400 (358mm)	Wide-Field DSO and planetary CCD imaging.	Schmidt-Cassegrain Catadioptric (SCT) Edge+HD	355.6mm (14")	3903mm (154")	f/11	None	f/11	ZWO ASI 294MM Pro Single-Sensor Color	Sony IMX294 CMOS	4.63x4.63µm	Not Applicable	Not Applicable	0.28 arcsecs/pixel	0° (North=Up)	16x12	Binning 1x1: 3358x2536 Binning 2x2: 1679x1268 Binning 3x3: 1119x845
Chile Two Wide-Field	This largest southern hemisphere telescope is huge, and is perfectly suited to capture the plethora of southern hemisphere celestial gems.	C2-WF-432	Pirbright CDK17 (432mm)	Wide-Field DSO CCD imaging.	Corrected Dall-Kirkham	432mm (17")	2938mm (115.71")	f/6.8	None	f/6.8	FLI PL16803	Kodak KAF-16803	9.9µm	Astronom Type-Balance Generation III E-Series and Photometric Johnson/Cousins Filters	Luminance, Red, Green, Blue, B-Band, V-Band, R-Band, I-Band	0.63 arcsecs/pixel	0° (North=Up)	43x43	Binning 1x1: 4096x4096 Binning 2x2: 2048x2048 Binning 3x3: 1365x1365
Chile Three Lunar	This specialized telescope is equipped with a high-performance video camera that provides an undistorted view of the Moon at high magnification. The telescope operates for special events and members are able to capture images from the live video stream.	C3-Lu-358	Carlson EdgeHD 1400 (358mm)	Lunar high magnification video stream.	Schmidt-Cassegrain Catadioptric (SCT) Edge+HD	355.6mm (14")	3903mm (154")	f/11	0.5x	f/5.2	Carlson Sigma 238C High-Frame-Rate Video	Sony EXMOR IMX236 CMOS	2.8x2.8µm	Not Applicable	Not Applicable	0.26 arcsecs/pixel	0° (North=Up)	8.4x5.3	1820x1080

AUSTRALIA OBSERVATORY

Located at the Springbrook Remote Observatory Facility, Siding Spring, New South Wales, Australia.
Latitude: 31.2816709° S (31° 16' 54.0" S)
Longitude: 149.0801825° E (149° 04' 48.7" E)
Altitude: 805m (2,641 ft)
Time zone: AET
MPC Observatory Code: E62

Basic System Information					Detailed Specification														
					Telescope						Imaging Device			Filters		Image Specification			
Telescope Name	Description	Code Designation	Type and Size	Optimized For	Type	Effective Aperture	Nominal Focal Length	Nominal Native Focal Ratio	Focal Reducer	Nominal Effective Focal Ratio	Model	CCD Type	Pixel Size	Manufacturer	Type	Image Scale at 1x1 binning	North Angle	Field-of-View arcminutes	Resolution
Australia One Half Meter	This is Slooh's premier southern hemisphere telescope. Its 20" mirror gives it excellent light gathering capabilities. It's ideal for larger faint objects such as galaxies and nebulae.	A1-WF-508	Pirbright CDK20 (508mm)	Wide-Field DSO CCD imaging.	Corrected Dall-Kirkham	508mm (20")	3454mm (135.98")	f/6.8	None	f/6.8	FLI PL16803	Kodak KAF-16803	9.9µm	Chroma Technology	Luminance, Red, Green, Blue, Ha, B-Band (Broad), V-Band (Broad), R-Band (Broad)	0.54 arcsec/pixel	0° (North=Up)	31x37	Binning 1x1: 4096x4096 Binning 2x2: 2048x2048 Binning 3x3: 1365x1365