

# SLOOH OBSERVATORIES AND TELESCOPE SPECIFICATIONS

## SLOOH CANARY ISLANDS OBSERVATORY

Located at the Institute of Astrophysics of the Canary Islands (IAC), Observatorio del Teide, Izaña, Tenerife.  
 Latitude: 28.29970 N (28° 17' 58.92" N)  
 Longitude: 016.50826 W (016° 30' 29.736" W)  
 Altitude: 2372.298m (7783.13ft)  
 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:	Optimised 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 incredible light gathering capabilities. It's ideal for larger faint objects such as galaxies and nebulae.	T1-HM-508	Planewave CDK20 (508mm)	Wide-Field DSO CCD imaging.	Corrected Dall-Kirkham	508mm (20")	3454mm (135.98")	f/6.8	None	f/6.8	FLI PL09000	Kodak KAF-09000	12x12µm	Astrodon Generation II E-Series	Luminance, Red, Green, Blue, H $\alpha$ , U-Band (Bessel), I-Band (Bessel)	0.717 arcsecs/pixel	0° (North-Up)	37x37	Binning 1x1: 3056x3056 Binning 2x2: 1528x1528 Binning 3x3: 1018x1018
Canary Two Wide-Field	Second only to the Half Meter telescope, this huge telescope is ideal to capture large faint objects such as galaxies and nebulae.	T2-WF-432	Planewave 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	9x9µm	Astrodon Tru-Balance Generation II E-Series	Luminance, Red Green, Blue, H $\alpha$ , B-Band (Bessel), V-Band (Bessel), R-Band (Bessel)	0.63 arcsecs/pixel	0° (North-Up)	43x43	Binning 1x1: 4096x4096 Binning 2x2: 2048x2048
Canary Two Ultra-Wide-Field	Slooh's smallest telescope but it 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-85	TeleVue 85GXF (85mm)	Very Wide-Field DSO CCD imaging.	Apochromatic Doublet Refractor Telescope	85mm (3.3")	595mm (23.4")	f/7	0.8x	f/5.6	SBIG ST-10XME	Kodak KAF-3200E (Class 1)	6.8x6.8µm	Astrodon Tru-Balance E-Series	Luminance, Red, Green, Blue, H $\alpha$	2.94 arcsecs/pixel	0° (North-Up)	107x72	Binning 1x1: 2184x1472 Binning 2x2: 1092x736 Binning 3x3: 728x490
Canary Three Deep Sky	This astrophotography instrument provides a large field-of-view and is equipped with a colour CCD camera (colour FITS and PNG images). It is ideal for most larger object types such as galaxies, nebulae and comets.	T3-DS-279	Celestron RASA (279mm)	Wide-Field DSO Single-Shot-Colour CCD imaging.	Rowe-Ackermann Schmidt Astrogaph	279mm (11")	620mm	f/2.22	None	f/2.22	Celestron Nightscape 8300 Colour	Kodak KAF-8300C	5.4x5.4µm	Not Applicable	Not Applicable	1.77 arcsecs/pixel	0° (North-Up)	112x84	Binning 1x1: 3760x2840 Binning 2x2: 1880x1420 Binning 4x4: 940x710
Canary Four Solar System	This telescope is optimised to capture smaller objects such as the planets and planetary nebulae. It also provides excellent close-up views of the Moon. The small field-of-view makes it unsuitable for many galaxies and larger nebulae.	T4-SS-358	Celestron EdgeHD 1400 (356mm)	High Magnification planetary and lunar, and smaller DSOs such as planetary nebula CCD imaging.	Schmidt-Cassegrain Catadioptric (SCT) EdgeHD	355.6mm (14")	3910mm (154")	f/11	None	f/11	SBIG STT-8300M	Kodak KAF-8300	5.4x5.4µm	Baader	Luminance, Red, Green, Blue, H $\alpha$ (7nm), OIII (8.5nm), SII (8nm)	0.28 arcsecs/pixel	0° (North-Up)	16x12	Binning 1x1: 3358x2536 Binning 2x2: 1679x1268 Binning 3x3: 1119x845
Canary Five Solar	This specialised telescope is equipped with a high-frame-rate video camera that provides unrivalled live views of the Sun in the H-Alpha bandwidth (<0.5 Angstrom bandpass). This allows us to see amazing high contrast views of active solar regions, flares, filaments and other surface features such as prominences on the solar limb. Members will be able to capture images from the live video.	T5-SHA-60	Lunt H-Alpha (60mm)	Solar H-Alpha video stream.	H-Alpha Double Stacked Refractor	60mm (2.36")	500mm (19.7")	f/8.3	None	f/8.3	Celestron Skyris 236C High-Frame-Rate Video	Sony EXMOR IMX236 CMOS	2.8x2.8µm	Not Applicable	Not Applicable	1.16 arcsecs/pixel	0° (North-Up)	37x21	1920x1080

## SLOOH CHILE OBSERVATORY

Located at the La Pontificia Universidad Católica de Chile (PUC), Santa Martina Observatory, La Dehesa, Santiago, Chile  
 Latitude: 33.269 S (33° 16' 8.4" S)  
 Longitude: 070.534 W (070° 32' 2.4" W)  
 Altitude: 1449.7m (4756.2ft)  
 Time zone: CLST  
 MPC Observatory Code: W88

Basic System Information					Detailed Specification														
					Telescope						Imaging Device			Filters		Image Specification			
Telescope Name:	Description:	Code Designation:	Type and Size:	Optimised 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:
Chile One Wide-Field	Slooh's workhorse southern hemisphere telescope is ideal to capture some of the finest objects in southern skies, including galaxies and nebulae as well as the fine globular clusters.	C1-WF-358	Celestron EdgeHD 1400 (356mm)	Wide-Field DSO and planetary CCD imaging.	Schmidt-Cassegrain Catadioptric (SCT) EdgeHD	355.6mm (14")	3910mm (154")	f/11	None	f/11	SBIG STL-11000M	Kodak KAI-11000	9x9µm	Astrodon	Luminance, Red, Green, Blue, Clear	0.47 arcsecs/pixel	0° (North-Up)	31x21	Binning 1x1: 4008x2672 Binning 2x2: 2004x1336 Binning 3x3: 1336x891
Chile One Ultra-Wide-Field	This small but very capable telescope has a huge field-of-view and is ideal to capture the largest southern hemisphere treasures.	C1-UWF-90	Takahashi Sky90 (90mm)	Ultra-Wide-Field DSO CCD imaging.	Fluorite Doublet Apochromatic Refractor Telescope	90mm (3.4")	405mm (16")	f/4.5	0.8	f/3.6	SBIG ST-2000XM	Kodak KAI-2020	7.4x7.4µm	SBIG	Luminance, Red, Green, Blue	3.07 arcsecs/pixel	0° (North-Up)	84x60	Binning 1x1: 1600x1200 Binning 2x2: 800x600 Binning 3x3: 533x400
Chile Two Wide-Field	Slooh's largest southern hemisphere telescope is huge, and is perfectly suited to capture the plethora of southern hemisphere celestial gems.	C2-WF-432	Planewave 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	9x9µm	Astrodon Tru-Balance Generation II E-Series and Photometric Johnson/Cousins Filters	Luminance, Red Green, Blue, B-Band, V-Band, Rc-Band, Ic-Band	0.63 arcsecs/pixel	0° (North-Up)	43x43	Binning 1x1: 4096x4096 Binning 2x2: 2048x2048 Binning 3x3: 1365x1365
Chile Three Lunar	This specialised telescope is equipped with a high-frame-rate video camera that provides unrivalled live views 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	Celestron EdgeHD 1400 (356mm)	Lunar high magnification video stream.	Schmidt-Cassegrain Catadioptric (SCT) EdgeHD	355.6mm (14")	3910mm (154")	f/11	0.56	f/6.2	Celestron Skyris 236C 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	1920x1080

## COMING 2020 SLOOH SHARJAH OBSERVATORY

Latitude: 25.094085 N (25° 05' 38.706" N)  
 Longitude: 55.833579 E (055° 50' 0.08844" E)  
 Altitude: 146m (479ft)  
 Time zone: GST

Basic System Information					Detailed Specification														
					Telescope						Imaging Device			Filters		Image Specification			
Telescope Name:	Description:	Code Designation:	Type and Size:	Optimised 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:
TBC																			
TBC																			
TBC																			

