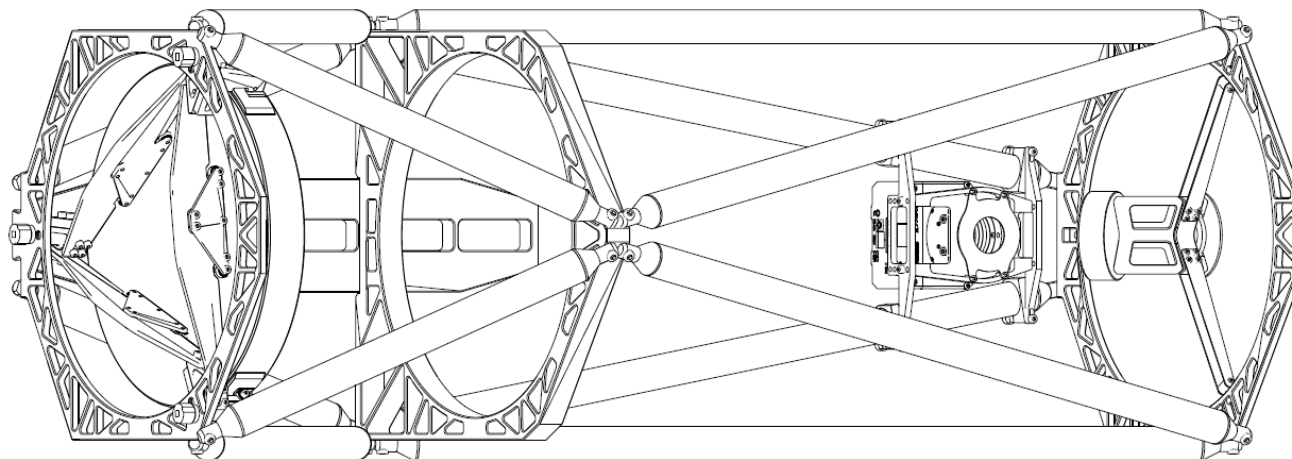


SOLEYE 300 specifications



Telescope

Type of build	Newtonian
Focal length	1200 mm
Aperture	300 mm
Aperture ratio	F/4
Total weight	14,52 kg
Tube length	1121 mm
Tube type	carbon truss tube
Tube geometry	ultralight asymmetric double octahedron
Tube material	carbon, aluminium
Tube diameter	360x417 mm
Mounting plate	Vixen dovetail plate – optional Losmandy adapter

Primary mirror Uncoated 'WHITE' for photosphere (solar continuum filters, G-band, Ca-K, Calcium up to 2 nm HBW)

Primary mirror	300/1200
Curve	parabolic
Material	fused silica
Coating	uncoated
Collimation area	5 cm aluminium coated surface in the optical axis
Surface accuracy	95% strehl (excellent) or more
Ventilation	self-cooling
Energy balance	96% rejected, 4% reflected
Thickness:	39 mm
Weight:	6.3 kg
Primary cell:	6 points, "Soleye airknife design"

Primary mirror 'VIOLET' for enhanced G-band and Ca-K/H ultranarrowband (Optional)

Primary mirror	300/1200
Material	fused silica
Collimation area	5 cm aluminium coated surface on the optical axis
Surface accuracy	95% strehl (excellent) or more
Coating	Violet enhanced coating optimised for G-band and Ca-K observation up to 3Å HBW
Coating accuracy	+/- 5 nm / 300 mm diameter (L/50)
Energy balance	96% rejected, 4% reflected (same as uncoated)
Thickness:	39 mm
Weight:	6.3 kg

Primary mirror 'RED' for H-alpha ultranarrowband (Optional) /coming soon/

Primary mirror	300/1200
Material	fused silica
Coating	red enhanced coating optimised for H-alpha observation up to 0,4Å HBW
Collimation area	5 cm aluminium coated surface on the optical axis
Surface accuracy	95% strehl (excellent) or more
Coating accuracy	+/- 5 nm / 300 mm diameter (L/50)
Energy balance	coming soon
Thickness:	39 mm
Weight:	6.3 kg

Secondary mirror

Diameter	78 mm
Central obstruction	26%
Surface accuracy	L/18
Reflectivity	96%
Secondary holder	bead blasted stainless steel
Advanced secondary holder (Optional)	thermal reflective gold plated stainless steel (optimal for G-band and Ca-K/H with primary 'VIOLET')

Focuser

Connection	2" (M56)
Motorized	yes
Type	Primalucelab ESATTO 2" robotic focuser "Soleye edition"

Included accessories

M56 to 2" compression ring	yes
1,25" 450 nm Soleye ERF filter	yes, for G-band and Ca-K observation

Recommended (not included) accessories

Camera adapter set with 3-6x barlow 2" compression ring	Self cooling M42 adapter with ED coma correcting barlows for sensors with all pixel sizes optimised for Powermate barlows
Instrument console	M4-M5 threaded holes for SSM, autoguiding and finder
Losmandy adapter	Vixen to Losmandy adapter
Softcases	for travel and save storage
Expedition hardcases	for air travel and rugged terrains

Area of application

Solar photography	The Solye300 telescope is specifically made for photographic solar photospheric observation
• Continuum	yes with any additional 1,25" bandfilter
• G-Band	yes with additional 1,25" filter (available from other manufacturers)
• Ca-K	yes with additional 1,25" filter (available from other manufacturers)
• ultra narrowband Ca-K	yes with Primary mirror 'VIOLET' and Solye 3Å "Reverse Granule" filter accessory
• ultra narrowband H-alpha	yes with Primary mirror 'RED' and H-alpha upgrade kit, with additional Etalon from other manufacturers
• visual solar observation	no
Further areas of applications:	
Nature Observation	no
Moon & Planets	yes with aluminized Primary mirror 'NIGHT'
Nebulae & galaxies	no
visual observation	no

Recommended for

Beginners	no
Advanced users	yes