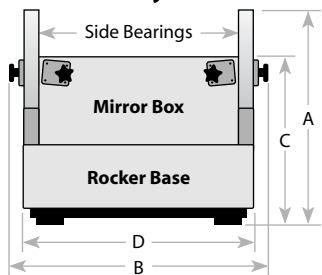


# OBSESSION TELESCOPES Specifications

English (Imperial) values

	12.5"	15"	15" UC	18"	18" UC	20"	20"	22" UC	25"	25"
<b>Focal Ratio</b>	<b>f/5</b>	<b>f/4.5</b>	<b>f/4.2</b>	<b>f/4.5</b>	<b>f/4.2</b>	<b>f/5</b>	<b>f/4</b>	<b>f/4.2</b>	<b>f/5</b>	<b>f/3.5</b>
<b>Focal Length</b>	63" (±2")	68" (±2")	63" (±2")	81" (±2")	75" (±2")	100" (±2")	80" (±2")	92" (±2")	125" (±2")	87" (±2")
<b>Primary Mirror*</b> (All of our primary mirrors are 2" thick)	12.5" <b>OMI</b>	15" <b>OMI</b>	15" <b>OMI</b>	18" <b>GALAXY</b> or <b>OMI</b>	18" <b>GALAXY</b> or <b>OMI</b>	20" <b>GALAXY</b> or <b>OMI</b>	20" <b>GALAXY</b> or <b>OMI</b>	22" <b>GALAXY</b> or <b>OMI</b>	25" f/5 <b>GALAXY</b> or <b>OMI</b>	25" f/3.5 <b>OMI</b>
<b>Secondary Mirror**</b>	2.14" <b>United Lens</b>	2.6" <b>United Lens</b>	2.6" <b>United Lens</b>	3.1" <b>United Lens</b>	3.1" <b>United Lens</b>	3.1" <b>United Lens</b>	3.5" <b>United Lens</b>	3.5" <b>United Lens</b>	3.5" <b>United Lens</b>	4.5" <b>United Lens</b>
<b>Mirror Cell</b>	9 Point	9 Point	9 Point	18 Point	18 Point	18 Point	18 Point	18 Point	18 Point	18 Point
<b>Truss Poles</b>	Length: 41" (±2") Diameter: 1.00" Wall Thickness: .035"	Length: 45" (±2") Diameter: 1.25" Wall Thickness: .035"	Length: 48" (±2") Diameter: 1.00" Wall Thickness: .035"	Length: 55" (±2") Diameter: 1.25" Wall Thickness: .035"	Length: 55" (±2") Diameter: 1.25" Wall Thickness: .035"	Length: 70" (±2") Diameter: 1.25" Wall Thickness: .035"	Length: 55" (±2") Diameter: 1.25" Wall Thickness: .035"	Length: 70" (±2") Diameter: 1.25" Wall Thickness: .035"	Length: 87" (±2") Diameter: 1.5" Wall Thickness: .049"	Length: 60" (±2") Diameter: 1.5" Wall Thickness: .049"
<b>Upper Assembly</b>	Diameter: 16" Height: 10" Weight: 5 lbs.	Diameter: 19" Height: 10" Weight: 8 lbs.	Diameter: 19" Height: 10" Weight: 6 lbs.	Diameter: 22" Height: 12" Weight: 9 lbs.	Diameter: 22" Height: 13.5" Weight: 6 lbs.	Diameter: 25" Height: 13" Weight: 11 lbs.	Diameter: 25" Height: 13" Weight: 11 lbs.	Diameter: 27" Height: 11" Weight: 8 lbs.	Diameter: 30" Height: 16" Weight: 15 lbs.	Diameter: 30" Height: 16" Weight: 16 lbs.
<b>Lower Assembly***</b> (see diagram below)	A = 20" B = 19" C = 15" D = 17"	A = 25" B = 23" C = 19" D = 21"	Folded for Transport: 24" x 24" x 11" Stacked in Rocker: 24" x 24" x 12.5" Width with wheelbarrow handles attached: 25"	A = 26" B = 27" C = 21" D = 25"	Folded for Transport: 22" x 25" x 12" Stacked in Rocker: 25" x 25" x 13.5" Width with wheelbarrow handles attached: 28"	A = 31" B = 29" C = 25" D = 27"	A = 31" B = 29" C = 25" D = 27"	Folded for Transport: 28" x 29" x 13" Stacked in Rocker: 28" x 29" x 16" high Width with wheelbarrow handles attached: 34"	A = 35" B = 35" C = 28" D = 32"	A = 35" B = 35" C = 28" D = 32"
<b>Mirror Box Weight</b>	39 lbs.	60 lbs.	26 lbs.	80 lbs.	38 lbs.	100 lbs.	100 lbs.	N/A	150 lbs.	150 lbs.
<b>Weight at Handles</b> What you lift at Wheelbarrow handles	6 lbs. Handles included	9 lbs. Handles included	8 lbs. Handles included	18 lbs. Handles included	10 lbs. Handles included	25 lbs. Handles included	25 lbs. Handles included	22 lbs. Handles included	40 lbs. Handles included	40 lbs. Handles included
<b>Eyepiece Height at Zenith</b> (approximate)	5'	5' 6"	5' 1"	6' 6"	5' 10"	8'	6' 6"	7' 4"	10'	7'
<b>Limiting stellar magnitude</b>	15	15.5	15.5	16	16	16.5	16.5	16.7	17	17
<b>Rayleigh Resolution Limit</b>	0.38 arc seconds	0.36 arc seconds	0.36 arc seconds	0.31 arc seconds	0.31 arc seconds	0.27 arc seconds	0.27 arc seconds	0.25 arc seconds	0.22 arc seconds	0.22 arc seconds
<b>Contrast Limit</b> minimum diameter before a nebular object fades from view	6.0 arc minutes	5.7 arc minutes	5.7 arc minutes	4.8 arc minutes	4.8 arc minutes	4.3 arc minutes	4.3 arc minutes	4.0 arc minutes	3.4 arc minutes	3.4 arc minutes

**Lower Assembly** (Classic Obsessions)



\* 96% enhanced coating and interferometry standard with **Galaxy** and **OMI** (Optical Mechanics Inc.) mirrors.

\*\* 98% reflectivity super enhanced Brilliant Diamond secondary from **United Lens** standard.

\*\*\* Add 5" to dimension "D" with wheelbarrow handles attached (12.5" - 25").

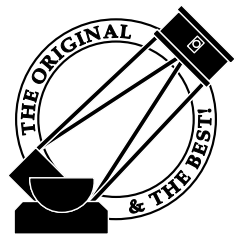
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## OBSESSION™ TELESCOPES

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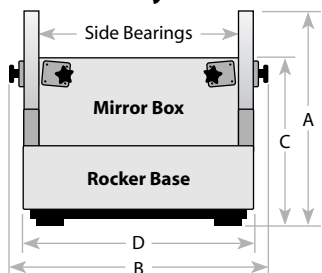


# OBSESSION TELESCOPES Specifications

Metric values

	12.5"	15"	15" UC	18"	18" UC	20"	20"	22" UC	25"	25"
<b>Focal Ratio</b>	<b>f/5</b>	<b>f/4.5</b>	<b>f/4.2</b>	<b>f/4.5</b>	<b>f/4.2</b>	<b>f/5</b>	<b>f/4</b>	<b>f/4.2</b>	<b>f/5</b>	<b>f/3.5</b>
<b>Focal Length</b>	1590 mm (±50mm)	1727 mm (±50mm)	1600 mm (±50mm)	2060 mm (±50mm)	1905 mm (±50mm)	2540 mm (±50mm)	2032 mm (±50mm)	2337 mm (±50mm)	3175 mm (±50mm)	2200 mm (±50mm)
<b>Primary Mirror*</b> <small>(All of our primary mirrors are 50.8mm thick)</small>	317 mm <b>OMI</b>	381 mm <b>OMI</b>	381 mm <b>OMI</b>	457 mm <b>GALAXY</b> or <b>OMI</b>	457 mm <b>GALAXY</b> or <b>OMI</b>	508 mm <b>GALAXY</b> or <b>OMI</b>	508 mm <b>GALAXY</b> or <b>OMI</b>	559 mm <b>GALAXY</b> or <b>OMI</b>	635 mm f/5 <b>GALAXY</b> or <b>OMI</b>	635 mm f/3.5 <b>OMI</b>
<b>Secondary Mirror**</b>	54 mm <b>United Lens</b>	66 mm <b>United Lens</b>	66 mm <b>United Lens</b>	79 mm <b>United Lens</b>	79 mm <b>United Lens</b>	79 mm <b>United Lens</b>	89 mm <b>United Lens</b>	89 mm <b>United Lens</b>	89 mm <b>United Lens</b>	114 mm <b>United Lens</b>
<b>Mirror Cell</b>	9 Point	9 Point	9 Point	18 Point	18 Point	18 Point	18 Point	18 Point	18 Point	18 Point
<b>Truss Poles</b>	Length: 104 cm (±5 cm) Diameter: 25 mm Wall Thickness: 0.9 mm	Length: 114 cm (±5 cm) Diameter: 32 mm Wall Thickness: 0.9 mm	Length: 122 cm (±5 cm) Diameter: 25 mm Wall Thickness: 0.9 mm	Length: 140 cm (±5 cm) Diameter: 32 mm Wall Thickness: 0.9 mm	Length: 140 cm (±5 cm) Diameter: 32 mm Wall Thickness: 0.9 mm	Length: 180 cm (±5 cm) Diameter: 32 mm Wall Thickness: 0.9 mm	Length: 140 cm (±5 cm) Diameter: 32 mm Wall Thickness: 0.9 mm	Length: 178 cm (±5 cm) Diameter: 32 mm Wall Thickness: 0.9 mm	Length: 220 cm (±5 cm) Diameter: 38 mm Wall Thickness: 1.2 mm	Length: 152 cm (±5 cm) Diameter: 38 mm Wall Thickness: 1.2 mm
<b>Upper Assembly</b>	Diameter: 41 cm Height: 25 cm Weight: 2.5 kg	Diameter: 48 cm Height: 25 cm Weight: 3.6 kg	Diameter: 48 cm Height: 25 cm Weight: 2.6 kg	Diameter: 56 cm Height: 30 cm Weight: 4.1 kg	Diameter: 56 cm Height: 34 cm Weight: 2.7 kg	Diameter: 63 cm Height: 33 cm Weight: 5 kg	Diameter: 63 cm Height: 33 cm Weight: 5 kg	Diameter: 68 cm Height: 28 cm Weight: 4 kg	Diameter: 76 cm Height: 40.5 cm Weight: 6.8 kg	Diameter: 76 cm Height: 40.5 cm Weight: 7.2 kg
<b>Lower Assembly***</b> <small>(see diagram below)</small>	A = 50 cm B = 48 cm C = 38 cm D = 43 cm	A = 63 cm B = 58 cm C = 48 cm D = 53 cm	Folded for Transport: 610cm x 610cm x 280cm Stacked in Rocker: 610cm x 610cm x 318cm Width with wheelbarrow handles attached: 63cm	A = 66 cm B = 68 cm C = 53 cm D = 63 cm	Folded for Transport: 56cm x 64cm x 30cm Stacked in Rocker: 64cm x 64cm x 34cm Width with wheelbarrow handles attached: 71cm	A = 79 cm B = 73 cm C = 63 cm D = 68 cm	A = 79 cm B = 73 cm C = 63 cm D = 68 cm	Folded for Transport: 71cm x 73cm x 33cm Stacked in Rocker: 71cm x 73cm x 41cm high Width with wheelbarrow handles attached: 86cm	A = 89 cm B = 89 cm C = 71 cm D = 81 cm	A = 89 cm B = 89 cm C = 71 cm D = 81 cm
<b>Mirror Box Weight</b>	18 kg	27 kg	12 kg	36 kg	17 kg	46 kg	46 kg	N/A	68 kg	68 kg
<b>Weight at Handles</b> <small>What you lift at Wheelbarrow handles</small>	2.75 kg Handles included	4 kg Handles included	3.5 kg Handles included	8 kg Handles included	4.5 kg Handles included	11 kg Handles included	11 kg Handles included	10 kg Handles included	18 kg Handles included	18 kg Handles included
<b>Eyepiece Height at Zenith</b> (approximate)	152 cm	167 cm	155 cm	198 cm	178 cm	245 cm	198 cm	223 cm	305 cm	213 cm
<b>Limiting stellar magnitude</b>	15	15.5	15.5	16	16	16.5	16.5	16.7	17	17
<b>Rayleigh Resolution Limit</b>	0.38 arc seconds	0.36 arc seconds	0.36 arc seconds	0.31 arc seconds	0.31 arc seconds	0.27 arc seconds	0.27 arc seconds	0.25 arc seconds	0.22 arc seconds	0.22 arc seconds
<b>Contrast Limit</b> <small>minimum diameter before a nebular object fades from view</small>	6.0 arc minutes	5.7 arc minutes	5.7 arc minutes	4.8 arc minutes	4.8 arc minutes	4.3 arc minutes	4.3 arc minutes	4.0 arc minutes	3.4 arc minutes	3.4 arc minutes

**Lower Assembly** (Classic Obsessions)



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