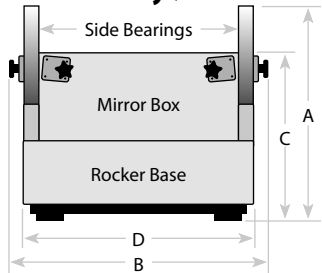


# OBSESSION TELESCOPES Specifications

English (Imperial) values (Metric values on page 2)

	12.5"	15"	15" UC	18"	18" UC	20"	20"	22" UC	25"
<b>Focal Ratio</b>	<b>f/5</b>	<b>f/4.5</b>	<b>f/4</b>	<b>f/4.2</b>	<b>f/4</b>	<b>f/5</b>	<b>f/4</b>	<b>f/4</b>	<b>f/4</b>
<b>Focal Length</b>	63" (±2")	68" (±2")	60" (±2")	75" (±2")	75" (±2")	100" (±2")	80" (±2")	92" (±2")	100" (±2")
<b>Primary Mirror*</b> <small>(All of our primary mirrors are 2" thick)</small>	12.5" <b>OMI</b>	15" <b>Ostahowski</b> or <b>OMI</b>	15" <b>Ostahowski</b> or <b>OMI</b>	18" <b>Ostahowski</b> or <b>OMI</b>	18" <b>Ostahowski</b> or <b>OMI</b>	20" <b>Ostahowski</b> or <b>OMI</b>	20" <b>Ostahowski</b> or <b>OMI</b>	22" <b>Ostahowski</b> or <b>OMI</b>	25" f/4 <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>	4" <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
<b>Truss Poles</b>	Length: 41" (±2") Diameter: 1.00" Wall Thickness: .035"	Length: 45" (±2") Diameter: 1.25" Wall Thickness: .035"	Length: 45" (±2") Diameter: 1.00" Wall Thickness: .035"	Length: 49" (±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: 70" (±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: 16 lbs.
<b>Lower Assembly***</b> <small>(see diagram below)</small>	A = 20" B = 19" C = 15" D = 17"	A = 25" B = 23" C = 19" D = 21"	Stacked in Rocker: 22" x 22" x 21" Width with wheelbarrow handles attached: 27"	A = 26" B = 27" C = 21" D = 25"	Stacked in Rocker: 24" x 25" x 22" Width with wheelbarrow handles attached: 29"	A = 31" B = 29" C = 25" D = 27"	A = 31" B = 29" C = 25" D = 27"	Stacked in Rocker: 29" x 29" x 27" high Width with wheelbarrow handles attached: 34"	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.
<b>Weight at Handles</b> <small>What you lift at Wheelbarrow handles</small>	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
<b>Eyepiece Height at Zenith</b> <small>(approximate)</small>	5'	5' 6"	4' 11"	5' 11"	5' 10"	8'	6' 6"	7'	8'
<b>Limiting stellar magnitude</b>	15	15.5	15.5	16	16	16.5	16.5	16.7	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
<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

**Lower Assembly** (Classic Obsessions)



- \* 96% enhanced coating and interferometry standard with **Ostahowski** and **OMI** (Optical Mechanics Inc.) mirrors.
- \*\* 96% reflectivity super enhanced Brilliant Diamond secondary from **United Lens** standard.
- \*\*\* Add 5" to dimension "D" with wheelbarrow handles attached (12.5" - 25").

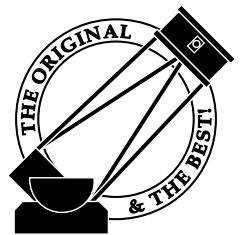
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## OBSESSION™ TELESCOPES

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**920-220-1195**

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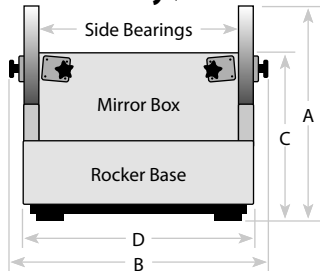


# OBSESSION TELESCOPES Specifications

Metric values (English values on page 1)

	12.5"	15"	15" UC	18"	18" UC	20"	20"	22" UC	25"
<b>Focal Ratio</b>	f/5	f/4.5	f/4	f/4.2	f/4	f/5	f/4	f/4	f/4
<b>Focal Length</b>	1590 mm (±50mm)	1727 mm (±50mm)	1520 mm (±50mm)	1900 mm (±50mm)	1905 mm (±50mm)	2540 mm (±50mm)	2032 mm (±50mm)	2337 mm (±50mm)	2540 mm (±50mm)
<b>Primary Mirror*</b> (All of our primary mirrors are 2" thick)	317 mm <b>OMI</b>	381 mm <b>Ostahowski</b> or <b>OMI</b>	381 mm <b>Ostahowski</b> or <b>OMI</b>	457 mm <b>Ostahowski</b> or <b>OMI</b>	457 mm <b>Ostahowski</b> or <b>OMI</b>	508 mm <b>Ostahowski</b> or <b>OMI</b>	508 mm <b>Ostahowski</b> or <b>OMI</b>	559 mm <b>Ostahowski</b> or <b>OMI</b>	635 mm f/4 <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>	102 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
<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: 114 cm (±5 cm) Diameter: 25 mm Wall Thickness: 0.9 mm	Length: 125 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: 180 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: 7.2 kg
<b>Lower Assembly***</b> (see diagram below)	A = 50 cm B = 48 cm C = 38 cm D = 43 cm	A = 63 cm B = 58 cm C = 48 cm D = 53 cm	Stacked in Rocker: 55cm x 55cm x 53cm Width with wheelbarrow handles attached: 68cm	A = 66 cm B = 68 cm C = 53 cm D = 63 cm	Stacked in Rocker: 61cm x 63cm x 56cm Width with wheelbarrow handles attached: 73cm	A = 79 cm B = 73 cm C = 63 cm D = 68 cm	A = 79 cm B = 73 cm C = 63 cm D = 68 cm	Stacked in Rocker: 73cm x 73cm x 69cm high Width with wheelbarrow handles attached: 86cm	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
<b>Weight at Handles</b> What you lift at Wheelbarrow handles	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
<b>Eyepiece Height at Zenith</b> (approximate)	152 cm	167 cm	150 cm	180 cm	178 cm	245 cm	198 cm	213 cm	245 cm
<b>Limiting stellar magnitude</b>	15	15.5	15.5	16	16	16.5	16.5	16.7	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
<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

**Lower Assembly** (Classic Obsessions)



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