

# PLANEWAVE - 20 inch CDK Optical Tube Assembly

## OPTICAL SYSTEM

Aperture	20 inch (508 mm)
Focal Length	3454 mm (135.98 inch)
Focal ratio	F/6.8
Central Obstruction	39% of the Primary Mirror Diameter
Back Focus from Racked in Focuser	5.8 inch (147 mm)
Weight	140 lbs (63.5 kg)
OTA Length	47 inch (1,194 mm)
Upper Cage	Carbon Fiber Truss
Lower Cage	Carbon Fiber Truss with Carbon Fiber Light Shroud

## PRIMARY MIRROR

Diameter	20.5 inch (521 mm)
Aperture	20 inch (508 mm)
Focal ratio	f/3
Mounting	Laser Collimated and Permanently Fixed
Material	Precision Annealed Pyrex
Shape	Prolate Ellipsoid
Coating	Enhanced Aluminum - 96%

## SECONDARY MIRROR

Diameter	7.5 inch (191 mm)
Material	Precision Annealed Borosilicate
Shape	Spherical
Coating	Enhanced Aluminum - 96%

## LENS GROUP

Diameter	90 mm (3.54 inch)
Number of lenses	2
Coating	Broadband AR Coatings (less than .5% reflected from 400 to 700nm)

## SHIPPING

Crated Shipping Weight	291 lbs (132.0 kg)
Crate Width	32 inch (813 mm)
Crate Height	36 inch (914 mm)
Crate Length	59 inch (1,499 mm)

## INCLUDED ACCESSORIES

<b>Ronchi Spacer</b> (200354)	This spacer sits in place of a focuser and is used for setting the primary to secondary spacing. It has an 1.25" inner diameter and may be used with 1.25" oculars for collimation.
<b>Ronchi Ocular</b>	This ocular is a Ronchi screen used for setting the primary to secondary spacing.
<b>Primary Mirror Cover</b>	The Primary Mirror Cover protects the primary mirror.
<b>Printed Instructions</b>	For Collimation and Spacing
<b>12VDC Power Supply</b> (18778)	Provides power for the fans (Not included for European Orders)
<b>Wrench Set</b> (5812A35)	English Hex Wrenches (European Orders Only)