

# CDK14

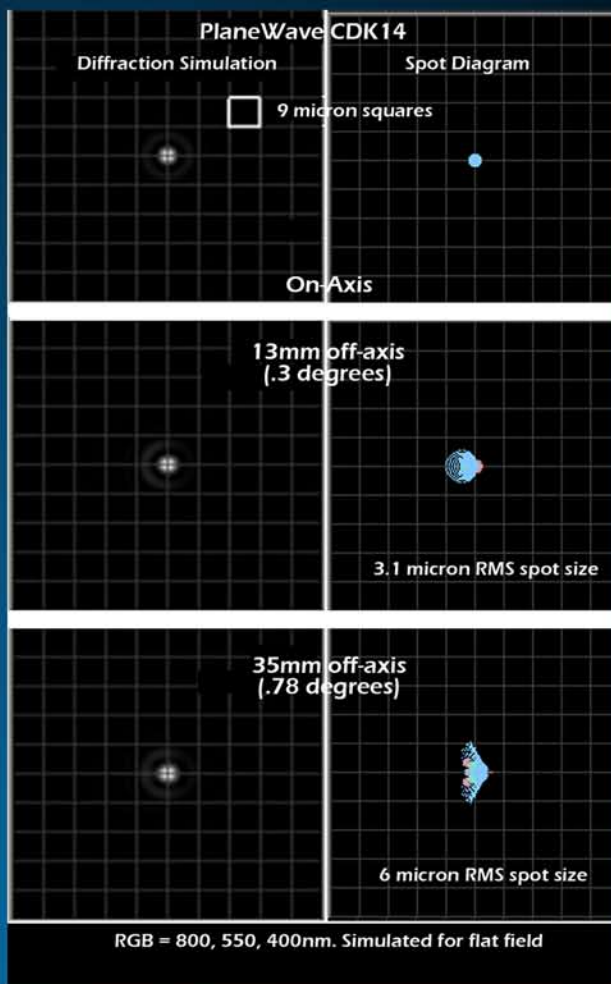


**The PlaneWave Instruments CDK14** is a 14 inch (0.36 m) f/7.2 Corrected Dall-Kirkham Astrograph telescope. The CDK14 covers a 70 mm field of view without any field curvature, off-axis coma, or astigmatism. The CDK14 is a lightweight carbon-fiber truss design weighing less than 50lbs, with 3 cooling fans ejecting air from the back of the telescope. The CDK optical design is the innovative solution for unsurpassed astro-imaging quality at an affordable price.

## FEATURES & SPECIFICATIONS

### OPTICAL SYSTEM

Optical Design	Corrected Dall-Kirkham
Aperture	14 inch (356 mm)
Focal Length	2563 mm (101 inch)
Focal ratio	F/7.2
Secondary Mirror	165mm (6.5")
Central Obstruction	23.5% by surface area 48.5% of the Diameter
Back Focus from Mounting Surface	11.09 inch (282 mm)
Back Focus from Optional Focuser	8.09 inch (205mm)
Weight	48 lbs (22 kg)
OTA Length	35 inch (889 mm)
Optical Performance	3.1 micron RMS at 13mm off-axis 6.0 micron at 35mm off-axis
Upper Cage	Carbon Fiber Truss
Lower Cage	Carbon Fiber Truss & Light Shroud
Optimal Field of View	70mm Image Circle



## STANDARD FEATURES



**CDK Optics** - The Corrected Dall-Kirkham design yields a perfectly flat field free from off-axis astigmatism, coma and defocus.



**Cooling Fans** - Three cooling fans blow air inside the back of the telescope. Internal diverting fins circulate air flow behind the mirror for even cooling to help the telescope reach thermal equilibrium quickly. The fans are controlled with PWI PC software with the optional Electronic Focus Accessory (EFA Kit).



**Carbon Fiber Truss Design** - Rigid and lightweight. Minimizes thermal expansion which causes focus shift with changes in temperature



**Delta-T Ready** - for added dew prevention, the CDK14 is internally wired with polyimide film heater pads and temperature sensor, ready to be controlled with the optional Delta-T controller.

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