



## PlaneWave CDK700 - 0.7 Meter Observatory Telescope System

---

The CDK700 (28-Inch primary mirror) is a complete observatory class telescope and alt-azimuth mounting system designed and engineered by PlaneWave. The CDK700 utilizes the same revolutionary new telescope optical system for which PlaneWave is well known. With a 70mm image circle, the CDK700 is designed to excel at imaging on large format CCD cameras while remaining an excellent instrument for visual use. The optical system utilizes a Nasmyth focus which exits through the altitude bearings on either side of the side of the fork mount. With this system, instruments or eyepieces do not need to move up and down with the telescope but instead remain at a fixed height. Heavy instruments can be installed on the fork without rebalancing the optical tube assembly. A rotating tertiary mirror allows instruments or eyepieces to be installed on either side or both sides of the telescope fork arms. The fork and pier assemblies are made of rigid powder-coated stainless steel in an alt-azimuth configuration and incorporates direct-drive motors and high-resolution encoders on each axis. The result is a stiff reactive mount with ultra smooth tracking, zero backlash, zero periodic error and near zero non-periodic error. The included PlaneWave focuser features a field rotator / de-rotator as part of the system.