

OST 2.0 Basics

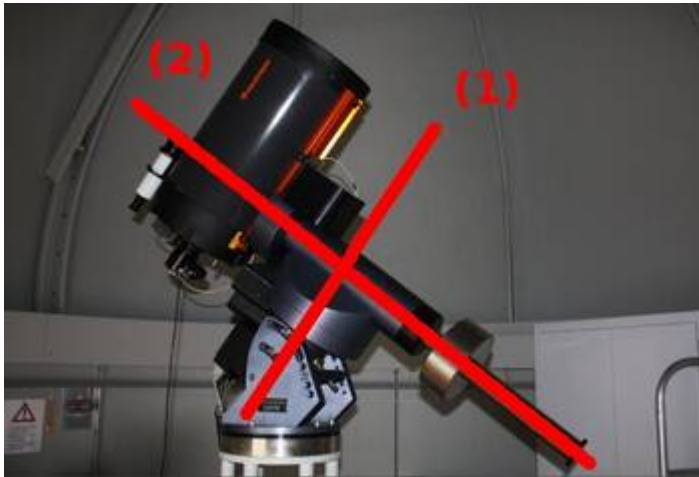
Tube



OST 2.0: The CDK20 from Planewave

| | |
|----------------------------|------------------------------|
| Type | Corrected Dall-Kirkham (CDK) |
| Diameter | 508 mm |
| Central obstruction | 198 mm |
| Focal length | 3454 mm |
| Focal ratio | f/6.8 |
| Spacial resolution | 0.3" |
| Image field | 52 mm |
| Mirror substrate | Fused Silica |
| Length of the tube | 1194 mm |
| Back focus distance | 147 mm (behind the focuser) |
| Weight | 64 kg |

Mounting



Axes

The mounting consists of 2 perpendicular axes:

- right ascension (1)
- declination (2).

The right ascension axis is parallel to the Earth axis, pointing towards the northern/southern celestial pole on the northern/southern hemisphere, respectively. The declination axis points towards the celestial equator.

| | |
|---------------------|-------------------------|
| Manufacturer | 10 MICRON |
| Model | GM 4000 QCI |
| Type | German equatorial mount |

Astronomical coordinates

| | Degree, minutes, seconds | Decimal degrees | Degree, decimal minutes |
|------------------|--------------------------|-----------------|-------------------------|
| Latitude | 52° 24' 33,0624" N | 52.409184 | 52° 24.55104 N |
| Longitude | 12° 58' 23,4666" O | 12.973185 | 12° 58.39111 O |
| Altitude | 39 m \pm 5 m | | |

Dome

The dome is made out of fibre-reinforced plastic (FRP). It was build and set up by Baader-Planetarium. The dome automatically follows the movement of the telescope. However, the azimuth, the hatch, and the shutter can be manually controlled by an infrared remote control.

| | |
|-----------------|-------|
| Diameter | 5.2 m |
|-----------------|-------|

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