

ASTRO-PHYSICS

1200 GERMAN EQUATORIAL MOUNT WITH QUARTZ MICRO-DRIVE AND BUILT-IN DIGITAL ENCODERS

FEATURES

- All machined mounting made from aluminum barstock
- Precision 10.3" gear in right-ascension, 7.2" gear in declination
- Dual Axis pulse motors with 12 Volt quartz micro-drive controller
- Hollow R.A. axis with detachable polar scope for quick, accurate alignment in the field
- Removeable 1.875" counterweight shaft can hold up to five 18 lb. counterweights
- Polar and declination axes come apart quickly for light-weight easy handling and ease of transport
- Fine altitude and azimuth adjustments for quickly and accurately zeroing in on the pole in the field
- Setting circles with Porter Slip Ring Design; polar-axis ring is driven; it follows the stars without needing to be reset each time you look at a new object
- Both axes have built-in high-resolution encoders for use with popular digital setting circles (phono plug connection required)
- Ready to go with CCD Star Tracker/ Imaging Systems
- Base fits into 10" diameter pier with 0.094" wall thickness

SPECIFICATIONS OF EQUATORIAL HEAD

R.A. worm wheel:	10.3", 225 tooth aluminum
Declination worm wheel:	7.2", 225 tooth aluminum
Worm gear:	brass
Latitude range:	19 to 68 degrees with polar scope, lower latitude wedge available
Azimuth adjustment:	approximately 14 degrees
Setting circles:	Porter Slip Ring design
Right ascension:	4-minute increments, pointer
Declination:	1-degree increments, pointer
High resolution encoders:	4000 step encoders, each axis
Capacity:	approximately 90 lbs.
Weight of equatorial head:	72 lbs (30.9 kg), disassembles into two manageable pieces, declination axis with saddle plate is 34 lbs., right ascension axis is 38 lbs.

SPECIFICATIONS OF QUARTZ MICRO-DRIVE

- High-resolution stepper motors in both axes
 - Quartz micro-drive controller
 - PEM - Periodic Error Memory correction
 - Declination backlash control
 - R.A. and declination reversing switches for correct object orientation and movement in eyepiece
 - Power output to plug in guiding reticle or other accessory
 - Adjustable brightness control for guiding reticle
 - Plug-in for SBIG ST-4, ST-6, ST-7 and ST-8 Star Tracker/ Imaging Systems
 - Locking plug connection for power cord
- Dimensions of controller: 7.25" x 3" x 0.9"
Drive rates: King sidereal, solar, lunar
Guiding/ Slewing rates: 0.25x 0.5x, 1x, 8x, 16x
Hemisphere: Northern/ Southern switch
Power consumption: 0.45 amps at normal rates
Power requirements: 12 VDC
Suggested power sources: Portable battery pack, auto battery, power inverter for 110 volts

AVAILABLE OPTIONS

Please see accompanying information sheets for description

Portable Piers - 10" diameter with heights 48", 54" or 62"
SBIG ST-4, ST-6, ST-7, ST-8 Star Tracker/ Imaging System
12 Amp-hr, 12-Volt Rechargeable Battery Pack
Mounting Plates - FP1200, DOVELM, 1200RP
Stainless Steel Counterweights - 10 or 18 lbs.
Pier Accessory Trays and Support Bar
Cable for SBIG ST-4, ST-6, ST-7, ST-8
Polar Alignment Telescope
JMI Digital Setting Circles
Mounting Rings

