

ASTRO-PHYSICS

900 GERMAN EQUATORIAL MOUNT WITH QUARTZ MICRO-DRIVE AND BUILT-IN DIGITAL ENCODERS (900QMD)

FEATURES

- All machined mounting made from aluminum barstock
- Precision 7.2" gear in right-ascension, 6" gear in declination
- Dual Axis pulse motors with 12 Volt quartz micro-drive Controller
- Ball bearing races
- Removeable 1.875" stainless steel counterweight shaft
- Polar and declination axes come apart quickly without tools for light-weight easy handling and ease of transport
- Right-ascension shaft threaded for optional polar scope for quick, accurate alignment in the field
- 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 8" outside diameter pier with 0.125" wall thickness

SPECIFICATIONS OF EQUATORIAL HEAD

R.A. worm wheel:	7.2", 225 tooth aluminum
Declination worm wheel:	6", 225 tooth aluminum
Worm gears:	brass
R.A. thrust surface	7.0" diameter
Declination thrust surface	6.0" diameter
R.A. shaft	2.2" diameter
Declination shaft	1.75" diameter
Latitude range:	19 to 68 degrees with polar scope, lower latitude wedge available approximately 14 degrees
Azimuth adjustment:	Porter Slip Ring design
Setting circles:	Right ascension: 4-minute increments, pointer Declination: 1-degree increments, pointer
High resolution encoders:	4000 step encoders, each axis
Weight of equatorial head:	38 lbs (17.3kg), disassembles into two manageable pieces, declination axis with saddle plate is 16 lbs., right ascension axis is 22 lbs. Weight of counterweight shaft is additional 10 lbs. (If you plan to use a small scope, you can order an extra lightweight 1.125" shaft - 3 lbs.)

SPECIFICATIONS OF QUARTZ MICRO-DRIVE

- High-resolution stepper motors in both axes
 - Quartz micro-drive controller
 - PEM - Permanent 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 Pier - 8" diameter, 0.125" wall thickness, heights 48", 54", 62"
SBIG ST-4, ST-6, ST-7, ST-8 CCD Star Tracker/ Imaging System
Mounting Plates- FP1200, DOVE15, DOVELM, 900RP
12 Amp-hr, 12 Volt Rechargeable Battery Pack
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 Axis Scope with Illuminator
JMI Digital Setting Circles
Mounting Rings

