

Manufacture	iOptron
Model	CEM40/CEM40EC
Mount Type	Chinese Equatorial Mount (CEM)
Payload (excl. CW)	18 kg (40 lbs), exclude counterweight
Mount Weight	7.2 kg (15.8 lbs)
Payload/Mount Weight	2.5
Structure Material	All metal, CNC machined
Exterior Finish	Anodized red/black
Latitude Adjustment Range	0~60° (special CW shaft mounting if < 10°)
Azimuth Adjustment Range	±6°
Tracking Accuracy (PE)	< ±7 arcsec / < 0.25 arcsec RMS (EC)
Period	400 sec
Worm diameter	17 mm
Right Ascension Worm Wheel	216 teeth, Ø110 mm, zero backlash
Declination Worm Wheel	216 teeth, Ø110 mm, zero backlash
Right Ascension Axle	Ø45 mm, steel
Declination Axle	Ø45 mm, steel
Right Ascension Bearings	Ø68 mm
Declination Bearings	Ø68 mm
Counterweight Shaft	Ø20 x 410 mm (SS, 1 kg)
Counterweight	4.5 kg (10 lbs) x1
Mounting Base Diameter	Ø125mm
Motor	precision stepper motor, 1.8°/128 micor-step
Motor Resolution	0.08 arcsec (200 PPS)
Hand Controller	Go2Nova 8407+; 8 line 21 character LCD
Star Database	359,000+, star identification
Power	DC 12V, 5A
Power Consumption	0.6A (tracking), 0.9A (GOTO)
Polar Scope	Internal iPolar electronic polar scope
Meridian treatment	Stop (0-10° pass), flip
Zero position	Automatic zero search
Dovetail saddle	iOptron Universal saddle, 5"
Max slew speed	4.5°/sec (1080x)
PEC	PPEC/Real time PEC (CEM40EC)
Guiding Port	ST-4
Communication Port	USB
GPS	YES
WIFI	External (optional)
Cable Management	DC12V (3A), ST4,USB
Tripod	1.5" (none, 2", or tripier optional)
Hard case	CEM40EC standard, CEM40 optional