

# Ascension 200

## German Equatorial Mount



PlaneWave Instruments is proud to introduce the Ascension 200HR German Equatorial Mount. The Ascension 200 is designed to hold a 275 pound payload while providing peerless performance. With 12.1" RA and DEC gears, 360 teeth, built in home sensors, and a convenient hand pad the Ascension 200HR is the perfect mount for permanent observatories and yet is transportable.

The Ascension 200HR is equipped with high resolution encoders coupled directly to each axis. This essentially removes any mechanical periodic error in the system. With the Ascension 200HR you will yield extremely accurate mount models and be able to take long duration unguided exposures.

The PlaneWave Instruments Ascension 200HR mount is a beautiful match for telescopes up to 24 inches or 275 lbs.



1815 W. 205th St. #303 - Torrance, CA 90501  
Phone: 310.787.9411 - Fax: 310.634.0439

[www.planewave.com](http://www.planewave.com)

## GENERAL FEATURES

Type  
Weight  
Maximum Payload  
Latitude Adjustment Range  
Azimuth Adjustment Range  
Home Position  
Past Meridian  
Cable Management

German Equatorial Mount  
240 lbs  
275 lbs instrument weight  
0 to 90 degrees  
15 degrees  
Home position sensors on both RA and Dec  
East side 22.5 degrees and West side 22.5 degrees  
Allows for accessory cables to be routed through the RA and Dec axes



## RA AND DEC AXES

RA Gear  
Dec Gear  
RA Axis  
Dec Axis  
Motors  
Motor Encoders  
Reduction  
A200 HR Encoder

12.1", 360 tooth aluminum worm wheel  
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3.0" stainless steel shaft, 2" thru hole  
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Pittman 9000 Series LoCog 24VDC  
US Digital 500 CPR (2000 in quadrature)  
19.7:1 gear and 2:1 belt reduction  
10" Renishaw high resolution encoder  
system on each axis. Approximately 14 million counts (.09 arc seconds).

## CONTROL SYSTEM

Control Electronics  
Power Requirement  
User Interface  
Modeling Software  
Home Position  
Slew Rate

Sidereal Technology Dual Axis Telescope Control  
24VDC, 5A - supplied with 24VDC 9.2A supply  
PlaneWave Interface (PWI) control software  
Standard with PointXP modeling software by Dave Rowe  
Home position sensors included.  
3 degrees per second on RA and Dec

