



AZ2500 DDS

HIGH SPEED TRACKING MOUNT

The AZ2500 DDS is a computerized, altazimuthal mount, built with state-of-the-art components and made in Italy with cutting-edge methods and advanced technologies.

This mount has been designed to offer premium performances like very high pointing speed and top tracking accuracy, especially suitable for satellite tracking, laser communication, astronomy and atmosphere research.

10Micron has been a leader in telescope mounts for over 20 years; our products have been chosen worldwide by Astronomical Observatories, Universities and Companies due to their technology, quality and reliability.



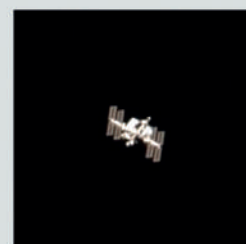
Keypad



Control box

MAIN FEATURES:

- Direct drive high torque motors
- Very high resolution absolute encoders
- Finest quality bearings
- Very stiff and compact body for top stability
- Very fast pointing speed up to 40°/sec
- Very accurate tracking
- Full stand alone control with provided keypad
- Internal sky model capability (up to 100 reference stars/points)
- Automatic modeling via optional software
- Focuser and derotator control
- Wide range of original accessories



ISS tracked with AZ2500 DDS



www.10micron.com

10Micron by Comec snc
Caronno Pertusella - ITALY
info@10micron.com

European dealer:

Baader Planetarium GmbH
www.10micron.de





Equatorial mode available

AZ2500 DDS

TECHNICAL SPECIFICATIONS

Mount type	Altazimuthal (Equatorial as option)
Weight (mount only)	76 Kg
Sizes	460mm x 669mm
Instrument payload capacity	75 Kg + 75 Kg (dual telescope configuration)
Bearings	Premium quality, high precision bearings
Transmission system	Direct Drive System
Motors	High torque direct drive
Encoders	High resolution absolute encoders, industrial grade
Power Supply	48 Volt
Power consumption	10 A Peak
Go-to speed	40° / sec
Pointing accuracy (typical)	<10" RMS with internal multiple stars mapping (max 100 stars). Automatic modeling software available
Average tracking accuracy	+/- 1" typical for 15 minutes / 0.6" RMS with internal multiple stars mapping (REAL sky observations).
Safety features	Mechanical stops in both axis Anti-wrap logic Unbalance protection system
Dedicated Focuser/De Rotators	GO-0 and GO-1 by 10Micron
Integrated database	Stars: by name, Bayer designation, Flamsteed designation, Bright Star Catalogue, SAO, HIP, HD, PPM, ADS, GCVS. Deep-sky: M, NGC, IC, PGC, UGC limited up to mV = 16. Solar system: Sun, Moon, planets, asteroids, comets, artificial satellites. Equatorial and altazimuth coordinates. User defined objects, fast slewing positions.
Firmware features	User defined mount parking position, 2-stars and 3-stars alignment function, up to 100 alignment stars for modeling, correction of polar alignment and orthogonality errors, UTC-UT1 correction, second leap correction, estimate of average pointing error, storage of multiple pointing models, sidereal, solar and lunar tracking speed adjustable on both axes, declination-based autoguide speed correction, adjustable horizon height limit, pointing and tracking past meridian, assisted balance adjustment, manual or GPS (PPS signal) time and coordinates setting, dome control via RS-232, configurable atmospheric refraction, comets and asteroids filter, multi-language interface. Remote assistance via Internet connection.
Keypad control	Rugged keypad with metal housing, backlit micro switches, dimmable graphic display with heating system. All the functions of the mount are available through the keypad without requiring an external PC.
PC control	Remote control via RS-232 and Ethernet network. Update of firmware and orbital elements for artificial satellites and minor planet objects. Virtual keypad control panel replicating the functionality of the physical keypad. Mount manager software including advanced user interface. Usage of any client software supporting the ASCOM standard through proprietary ASCOM driver, or through the LX200 compatible protocol. NEW professional WEB interface.