

KINETO TRACKING MOUNT - MODEL K433

WHEN THE RANGES REQUIRED PRECISE AND RELIABLE OPTICAL TRACKING MOUNTS, THEY SELECTED THE BRASHEAR KINETO TRACKING MOUNT MORE THAN 150 TIMES.

FLEXIBILITY TO SUPPORT DIVERSE MISSIONS AND NEEDS

The KTM meets the needs of a wide variety of test range and scientific applications:

- On-board operator, or remote analog or digital control
- Payloads up to 1200 pounds (unmanned) or 600 pounds (manned)
- Mission configuration with four (manned) or six (unmanned) payload positions
- Complete turnkey systems available
- Detailed installation documentation

FIELD-PROVEN RUGGED AND RELIABLE

The KTM consistently demonstrates its performance and durability:

- Weather tight seals designed to withstand harsh range environments
- The KTM's direct drive axis design delivers smooth, jitterfree tracking to ensure precise Time, Space and Position Information (TSPI)
- Self-contained and trailer-mounted, the KTM is quickly and easily deployed via highway and unimproved roads to remote tracking sites
- Digital Control System (DCS) that guarantees system reliability



Recognized Standard for Tracking Systems Worldwide

THE KTM DIGITAL CONTROL SYSTEM (DCS) INCLUDES:

- High speed communication via an Ethernet interface to provide remote operation
- Advanced servo loop control to optimize tracking performance
- Built-in error correction to ensure precision tracking accuracy
- Versatile chassis architecture that accommodates additional PC104 cards such as an "Automatic Video Tracker" (AVT) to satisfy specific customer requirements and missions



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MORE THAN 150 SYSTEMS IN SERVICE WORLDWIDE

SPECIFICATIONS

Payload capacity:	
Standard combined platform.....	600 lbs plus operator
With optional center platform.....	1,200 lbs
Range of motion:	
Elevation.....	-10° to +190° (operator's safety stop at +100°)
Azimuth.....	±335°
Dynamic performance:	
Velocity – Az / El.....	to 60°/sec
Acceleration – Az / El.....	to 60°/sec ²
Position encoder:	
Standard 21-bit resolution.....	(0.6 arc sec)
Optional 23-bit resolution.....	(0.15 arc sec)
Geometric errors.....	
	< 3 arc sec wobble
	< 5 arc sec orthogonality
Performance.....	
	5 arc sec LOS pointing accuracy (after star calibration)
	< 3 arc sec tracking jitter
	< 1 arc sec optional
Operating environment.....	
	0° to 120° F
	30 to 50 mph winds
Non-operating environment	
	-20° to 120° F
	100 mph winds
Trailer and enclosure specifications:	
Setup.....	1 person – 15 minutes
Roadability.....	55 mph highway; 30 mph improved gravel roads



OPTIONS INCLUDE:

- Slipping and Fiber Optic Rotary Joint assemblies on the azimuth axis for power and signal wiring along with an ethernet line, video coax lines, and single mode fiber optic lines. These options allow unlimited axis rotation and eliminate risk of cable wrap-up.
- Automatic Video Tracking (AVT) kit integrated into the DCS chassis to allow automatic target acquisition and tracking with digital or analog cameras.
- Center platform that replaces the existing guidescope/operator seat to allow increased payload capacity and provides two additional mounting surfaces on the KTM.



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L-3. Leading. Headquartered in New York City, L-3 Communications employs over 63,000 people worldwide and is a prime system contractor in aircraft modernization and maintenance, C3ISR (Command, Control, Communications, Intelligence, Surveillance and Reconnaissance) systems and government services. L-3 is also a leading provider of high technology products, systems and subsystems. The company reported 2006 sales of \$12.5 billion.