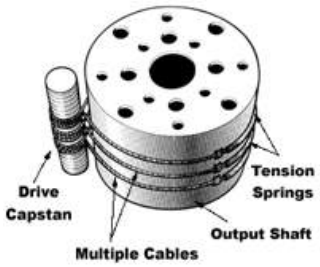
MODEL-25 PAN & TILT GIMBAL

The Model 25 gimbal provides closed-loop control, greater pointing accuracy, higher payload capacity, better tracking performance, and a more weatherproof housing than the original Model 20. The Model 25 gimbal incorporates an exceptionally stiff gimbal structure to provide image stability for high-speed video tracking applications.

The Model-25 Gimbal features Sagebrush's Roto-Lok® rotary drive to provide complete freedom from backlash, ultra-smooth motion, high resolution control, and reliability that cannot be achieved with competitive gear driven Pan & Tilt gimbals. The standard configuration includes 2000 count per revolution encoders on the motor shafts and brakes on each axis.

This gimbal utilizes an on-board microprocessor to provide closed-loop motor control for precise motion and position control. Positioning information is transmitted to and from the gimbal via a serial interface. Optionally, the gimbal software supports multiple communication protocols. Direct joystick control (no PC required) is also available.



ROTO-LOK®

FEATURES

- ***30 lb Payload Capacity***
- ***0.003° Positioning Resolution***
- ***Closed-Loop Control***
- ***Zero Backlash***
- ***Wide Angular Coverage***
- ***No Maintenance Required***
- ***Quiet Operation***
- ***120°/Sec Slew Rates***
- ***Mates to PC Controller***
- ***RS-232/422 Communications***
- ***Balanced Payload***
- ***Weather Resistant***
- ***24 Volt DC***

SPECIFICATIONS FOR MODEL 25 GIMBAL

We reserve the right to change these specifications at any time.

Height	22.3" (566.4 mm)
Elevation Width	11.5" (293.4 mm)
Base Diameter	16.0" (406.4 mm)
Weight	54 lbs (24.5 Kg)
Payload Capacity	30 lbs (13.6 Kg) (balanced on CG)
Payload Orientation	Double payload shelves are standard
Max Inertia	Pan <2400 lb-in^2 (<0.70 Kg-m^2), Tilt <1500 lb-in^2 (<0.44 Kg-m^2)
Travel Range (Azimuth)	+/- 200° Non-continuous
Travel Range (Elevation)	+95° to –35° from horizontal
Travel Rate (Max)	120°/sec
Positional Resolution	0.0014°
Input Power	24VDC
Power Usage	125 Watts, Peak
Power & Data Connectors	MIL-C-5015 Connector (mating connector supplied)
Controller Interface	PC (standard serial interface)
Payload Power	Pre-wired for up to 7.5 Amps
Payload Wiring	Pre-wired for 8 data lines (additional power/data pins available)
Color	White Powder Coat standard; other colors available
Motor Type	DC Servomotors with integral 2000 count encoder
Motor Controller	32-bit microprocessor on-board the gimbal
Communication	RS-232 or RS-422 (specify with order)
Communication Ports	Two additional RS-232 comm ports included
Manuals	Installation, Operating and Maintenance
Routine Maintenance	None required
Warranty Period	One year (if operated according to instructions)
Operating/Storage Temp	-25°C to 50°C/-30°C to 75°C (nominal)

OPTIONS

Coax Cable Installed	75 ohm installed in gimbal at factory
Optional Finished Color	Specify desired color
Lens Control	Internal programmable controller for zoom and focus

Additional Options are planned, call for information and availability

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