

RECEIVE RECORD **PROCESS** 

# **Sparte 300** L/S/C

### TRACKING ANTENNAS

6FT (1.8M), 8FT (2.4M) & 10FT (3M)

The SPARTE 300 series antenna is a field and time proven product delivered to customers for mission-critical applications where the telemetry reception is at stake. This robust antenna ensures to our customers highly accurate operations, as well as a long lifetime and simple maintenance tasks.

The SPARTE 300 series empowers users with a variety of applications, such as aircraft tracking, very high speed targets with high dynamics, or duplex datalinks with an Rx/ Tx system. Additionally, the numerous and customizable I/Os provide users with the ability to operate the antenna in a multisite tracking fashion, with master-slave communications between smaller and larger models.





Direct Drives, User Selectable, Servo Algorithms



#### **SCM 1000 HZ SCAN RATE**

Common Design for Main Feed & ACQ-AID Feed



**HASSLE-FREE MAINTENANCE** 

Easily Accessible Electronics & Mechanics Above Az



SHIPBORNE READY IMU Add-On for Shipborne Operations





## **SPARTE 300** L/S/C

#### > SYSTEM SPECIFICATIONS

#### **Pedestal**

Azimuth Travel Range	Unlimited
Elevation Travel Range	5° / + 185° option –15° / + 195°
Angular Velocity	≥ 30 °/s on Each Axis
Angular Acceleration	≥ 40 °/s² on Each Axis

#### Reflector

Aluminum Alloy Reflector / Any Kind of Payload

#### **Servo-Control**

Static Pointing Accuracy	≤ 0.05°
Tracking Accuracy	≤ 0.2°
Acceleration Lag	0.2°/°/s²

#### **Antenna Control Unit**

Manual, Slew, Scan, Slave (2 x Inputs), RF Tracking, Program-Track, **GPS Slaving** 

Advanced Features: Autotracking (Automatic ACU Modes Management), Auto Acquisition (with Adjustable Signal Thresholds), Multipath Clipping, Centralized Remote Control for Receivers, Recorders, ...

Tracking Signal Inputs... 4x Pairs of AM+AGC LHCP/RHCP, Best Telemetry Channel Auto-Diversity. Diagnostic Tool Continuous BIT, Servo-Control, Tracking, Y-Factor, Logbook, Parameters Recording

#### **General Characteristics**

Power Standard	110 - 230 Vac 50-60Hz
Power Consumption	2.5 kVA Peak and 4 kVA with Max Wind Load
Antenna Weight	550 kg (1212 lbs)

#### > ENVIRONMENTAL SPECIFICATIONS

#### **Operating Temperature Range**

Outdoor Equipment... -25 to +50°C / +13 to +122°F

#### Operational Wind in 2.4 m

Operational Willum 2.4	III
Mean	Up to 80 km/h
Gust	Up to 100 km/h
Survival Wind	Up to 200 km/h
Humidity	
Outdoor	0.50/

#### > OPTIONAL ITEMS

- ► Operator control desk
- ► Cable wrap (±360°)

Indoor...

- ► Axial video camera for visual target aiming
- ► SCM feed up to 1000Hz tracking rate
- ► Acquisition aid and omni antennas
- ▶ 3rd channel and embeded test dipole
- ► Low gain switching for short range ► Single / Dual / Tri-band feed
- ▶ 6ft and 10ft reflectors available
- ► Shipborne version (Inertia Measurement Unit and -15° lower El limit)

85% Non-Condensing

- ► Trailer-mounted version
- ► GPS time / position synchronization (single or differential)
- ► IR tracking capability
- Custom form factors available on demand

	1.8 M / 6 FT	2.4 M / 8 FT	2.0 M / 10 FT	
Tracking	8 Dipoles Monopulse			
Receive Frequency Range	1429 - 1545 MHz / 2200 - 2400 MHz / 4400 - 5250 MHz			
Receive Polarization	RHCP and LHCP			
Axial Ratio	≤ 1.5 dB on Axis			
-3dB Beamwidth @ 2.3GHz	5°	3.8°	2.9°	
G/T @2300 MHz, No Filter, 10° Elevation, 20°C Clear Sky	6.3 dB/K	8.8 dB/K	10.7 dB/K	
Maximum Wind for Nominal / Degraded Performance	100 / 120 km/h	80 / 100 km/h	50 / 70 km/h	







**AEROSPACE** 

#### **GLOBAL SALES**