

DAMS Antenna Measurement System

Model 6000-100

Features and Specifications



2 Axis Movement
+/- 435 Degrees Movement with up to +/- 90 degrees vertical tilt.

Precision 18 GHz. rotary joint (usable to 26 GHz)
The rotary joint is constructed from a special carbon based material that allows noiseless measurements up to 18 GHz.

Deluxe Measurement Software
The DAMS 6000-100 comes with an Enhanced version of the DAMS Measurement Studio software featuring special plots and functions.

Calibrated SMA Cables
System Includes 2 10' precision SMA Measurement cables certified to 18 GHz

Internal Heater for use in cold environments.

Ultra High Resolution
The positioner is capable of .1 degree positioning.

Precision Drive Train
Steel gear and worm, with ball and tapered roller bearings.

Includes All Optional Accessories
The DAMS 6000-100 is a complete measurement solution that includes everything except the VNA and Computer (optional)

COMPLETE 2 year warranty
Our 2 year warranty covers all parts, labor and technical support.

Integrated Microprocessor controller for precision, encoded movements.

Dual Trace Polar and Amplitude Plots

Features:

- Dual Marker Function
- Selectable Linear/10Log/20Log formats
- Instant Delta DB/Angle Marker readout
- Selecable Scale
- Export Option

3D and Spherical Plots

- Full 3D Interface
- Map Data onto a Sphere
- Plot data at any frequency
- Overlay Features
- Multiple Display Options

- Support for power meters, voltmeters,spectrum analyzers and VNA/PNA's
- Continous rotation or swept measurements
- Data Export with Variable Format option
- Measure up to 1600 frequency points @ every increment
- variable speed.
- Move to Max Signal Position.
- Vertical/Horizontal Scan Measurements.
- CW/CCW Antenna rotation.

- Dual Trace Polar Plots
- Dual Trace Amplitude Plots
- 3D Azimuth Plots and 3D Az/EI Plots
- Spherical Plots (pro version only)
- Calibrated Horn table import.
- Path loss Calculator
- Complete Data Manipulation
- Multiple storage registers for convenience

POSITIONER OPERATING SPECS

Frequency- DC-18 GHZ

Speed

- .3 -8 Deg/sec. Horizontal

- .1 - 4.5 Deg/sec. Tilt

Weight Capacity

100 LBS MAX

Drivetrain

Azimuth / Elevation - Precision Steel gear and worm with ball and tapered bearings.

Accuracy- .1 Degree

CONTROLLER OPERATING SPECS

Control Methods-

DAMS Antenna Measurement Software

Any software with serial communication*

*Requires Positioner Development Kit

Interface- Hybrid USB/Serial

Input Power- 24V 1.6A Switched Power Supply

PHYSICAL PROPERTIES

Width - 12.5" (30.5 cm) Without Tripod

Height -

48" Minimum with Tripod 12.5" without Tripod

84" Maximum with Tripod

Weight-

67 Lbs with Tripod

Positioner Composition-

6061-T6 Aluminum with Stainless Steel components.

Powdercoated Finish for Durability

Tripod Composition-

Aluminum and Stainless Steel

ENVIRONMENTAL SPECIFICATIONS

Operating Temp: -30 F to +130 F

Transport Temp: -40c to 60c (-40f to 140f)

10% to 90% Relative Humidity