Spherical Near Field Measurement System SNF-L-0.7





DESCRIPTION

Model SNF-L-0.7 is a roll over azimuth spherical near field measurement system. It is composed by four axes including theta, phi, pol rotation axes and offset linear slide. It is ideal for measuring low to medium gain antennas from 0.4 to 110GHz. The system is constructed of high strength aluminium and can support maximum AUT weight up to 25kg. The system is designed as a kit in which each subsystem is easy to assemble, align. An optional floor slide can be added to convert the near field measurement into direct far field measurement.

FEAUTRES

- Cover from 0.4Ghz to mmWave frequency range
- Full spherical scan capability
- Automatic scan and control setup
- Paired with viewing and analysis software
- Far field and near field patterns

TYPICAL APPLICATIONS

- Base station antenna
- Patch Arrays
- General broad pattern antennas
- Lens antennas



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SPECIFICATIONS

Positioning System

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AUT Positioner	Roll over Azimuth spherical scanning
Max AUT Diameter	0.7mm
Max AUT Weight	20kg
Probe Positioner	Automatic Polarization rotation 19kg maximum load (WR975)
Phase Offset Slider	250mm offset capability (can be configured up to 500mm)
Repeatability	0.05° RMS
Resolution	0.0125°
Scan Speed	10/10/40° per second theta/phi/pol
Position Controller	Ascan Controller, Plug and Play connection cable 10m
Slip Ring	12 Contact 220V-10A
Absorber kit	150mm pyramidal
Frequency Range	0.4-110GHz
RF System	
AUT Positioner RF cables	20, 40, 50Ghz 2m cable
Rotary Joint	18, 26.5, 40, 50 GHz (Phi, Theta, Pol)
Range RF cables	20, 40, 50 GHz. 8m to AUT positioner, 3m to probe stand
VNA compatibility	Keysight ENA, PNA, (other VNA please contact Ascan)
Weights and Dimensions	
Installation Envelope W×L×H	1.7×variable depth×1.6 m



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DELIVERABLES

Positioning and Scanning subsystem

- Roll over azimuth scanner
- Phase centre offset slider
- Absorber kit

Motion Control

- Ascan controller
- Controller cables
- Ascan Acquirer-- control and data acquisition software

RF subsystem

- Positioner cable
- Range RF cable
- Rotary joint—theta, phi and pol axes

Site Deliverables

- Hardware, system and software manual
- Anchoring kit
- Shipping crates

OPTIONS AND ACCESSORIES

Software add-on

Spatial digital filter

RF Components

Waveguide probe and its fixtures Standard gain horn and associated fixtures Mmwave RF installation kit for mmWave VNA extension module 50Ghz-110Ghz

Additional scanning modes

Floor slide Planar scanner

On Site Services

Installation **Training**

Notes: This datasheet is not used as a contractual document. It is a general introduction of the system. Please contact Ascan for more information.





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