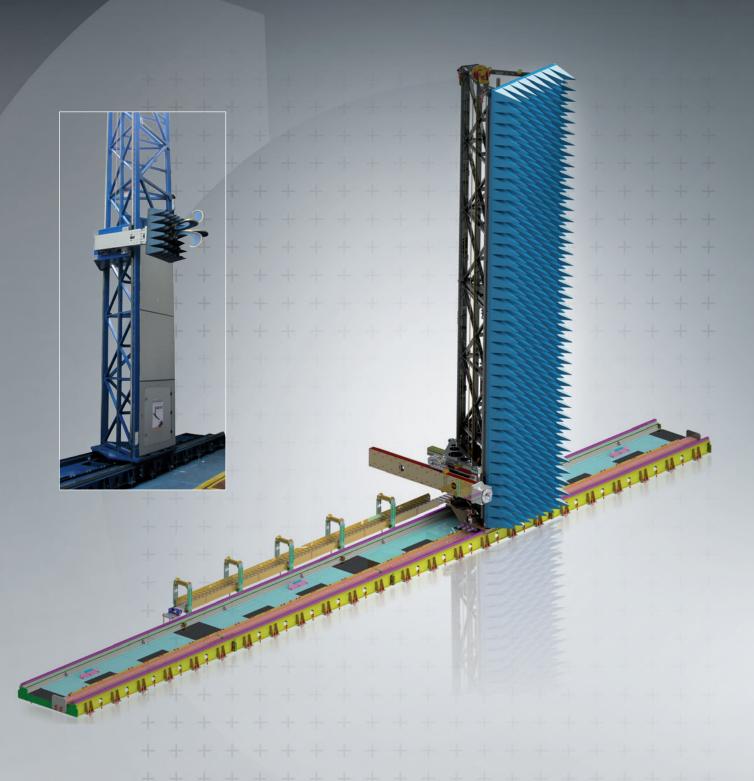
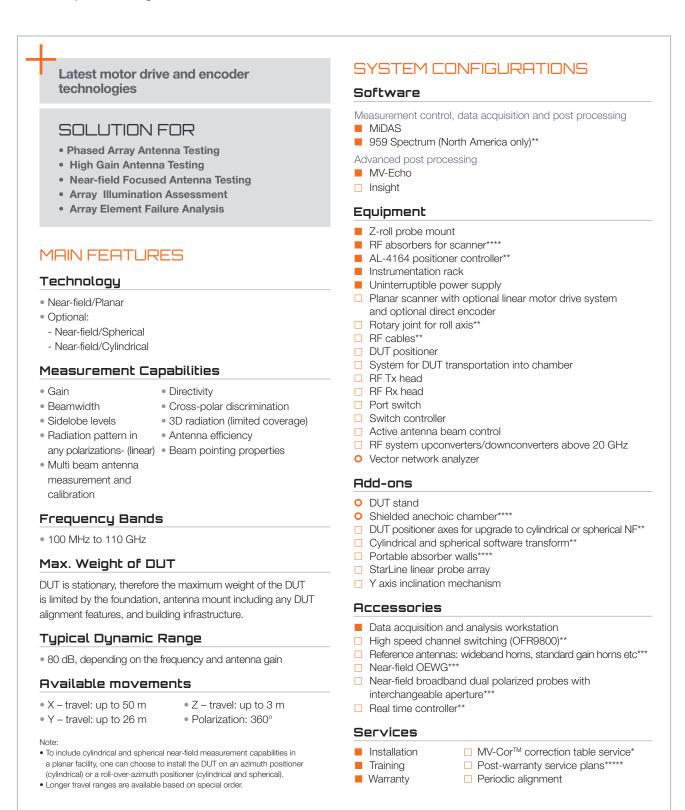


# + TScan



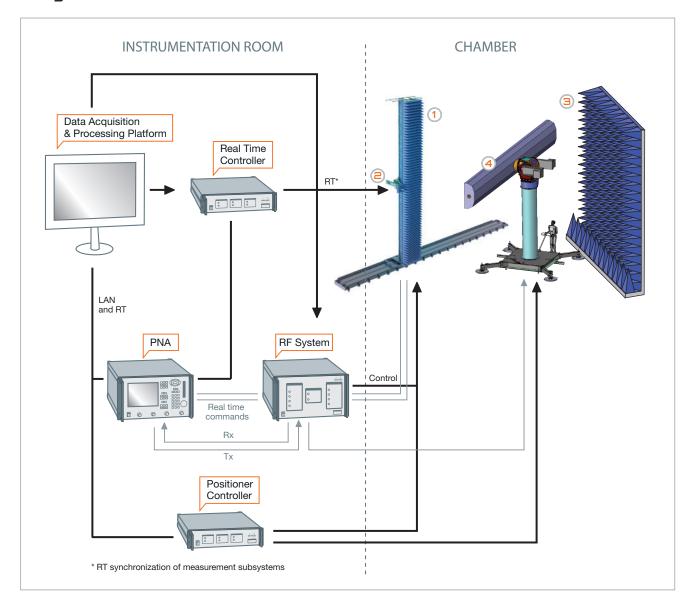
TScan is a fast and ultra-accurate planar near-field scanner with the latest motor drive and encoder technologies. High acceleration of the linear motors for stepped and continuous mode operation optimizes the performance and cost of the scanner. Excellent manufacturing precision combined with direct readout high resolution linear encoders and careful alignment ensure unrivaled mechanical positioning accuracy and planarity. The positioning accuracy for all axes can then be further improved using MV-Cor™\*.



<sup>\*</sup> See MV-Cor brochure for more information / \*\*\* See the ORBIT/FR product catalogs for more information / \*\*\* See the MVG antenna catalog for more information / \*\*\*\* See MVG-EMC Systems catalogs for more information / \*\*\*\* See Orbit/FR service brochure for more information

■ Included □ Optional ○ Required

### + System Overview



Measurements can be performed in both continuous wave and pulsed mode. In the case of phased array antenna measurement, the system utilizes the real time controllers to control and synchronize the measurement system with the device under test.

### Mechanical characteristics\*

SYSTEMS	ULTRA LIGHT SERIES AL-4951	LIGHT Series AL-49510	MEDIUM SERIES AL-4952 (R500)	MEDIUM SERIES AL-49520 (T900)	LARGE SERIES AL-49530	EXTRA LARGE SERIES AL-49540
Structure	Aluminum	Steel	Steel	Steel	Steel	Steel
Planarity (RMS)	0.1 mm	0.024 mm (up to 4x2.5 m) 0.048 mm (up to 10x7 m)	0.07 mm (up to 6x6m 0.15 mm (up to 20x6 m)	0.048 mm (up to 15x8 m) 0.06 mm (up to 15x12 m) 0.096 mm (up to 50x8 m) 0.13 mm (up to 50x12 m)	0.048 mm (up to 30x13 m) 0.15 mm (up to 50x18 m)	0.048 mm (up to 30x13 m) 0.19 mm (up to 50x26 m)
Scan Travel X	Up to 8 m	Up to 5 m	Up to 20 m	Up to 50 m	Up to 50 m	Up to 50 m
Scan Travel Y	Up to 2.5 m	Up to 2.5 m	Up to 6 m	Up to 12 m	Up to 18 m	Up to 26 m
X Axis Velocity	250 mm/sec	up to 350 mm/ sec	up to 250 mm/sec	250 - 500 mm/sec	250 - 500 mm/sec	125 - 350 mm/sec
Y Axis Velocity	350 mm/sec	up to 350 mm/ sec	up to 250 mm/sec	250 - 1000 mm/sec	250 - 1000 mm/sec	250 - 1000 mm/sec

 $<sup>^{\</sup>star}$  Z Roll is available for all above with various travel

# +Standard system components

### 1 Planar scanner



The scanner, AL-495XX series is composed of an X axis linear slide and a moving tower for the Y axis. The slide is constructed of modular sections.

These modules are fixed to

the scanner foundation and levelled as one integral track.

T – shape rail with an encoder

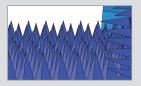
- systemLinear motors (optional)
- High linear motor power
- No backlash

### Measurement probes



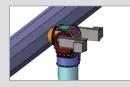
- Open-ended waveguides or Dual-polarized open-ended waveguides
- MVG antenna catalog





- A selection of standard, adapted and specialty absorbers
- Anechoic chambers with integrated design, production, installation and testing services
- AEMI absorber catalog

## 4 DUT positioning equipment



- A complete range of rotary positioners and model towers are available with air cushion (optional)
- ORBIT/FR positioning equipment catalog



High speed linear motors



The encoder system with a line of magnetic encoding strip readers