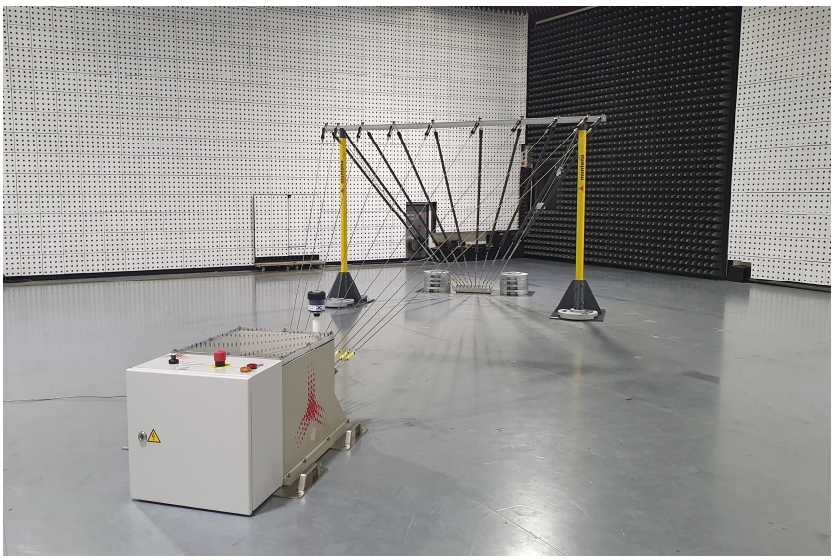
NEMP radiated susceptibility test setup, H = 140 cm

The test system NEMP140 is designed to assess the immunity of electronic equipment and subsystems to an electromagnetic pulse in accordance with the MIL-STD 461 RS105 test procedure (NEMP: nuclear electromagnetic pulse).

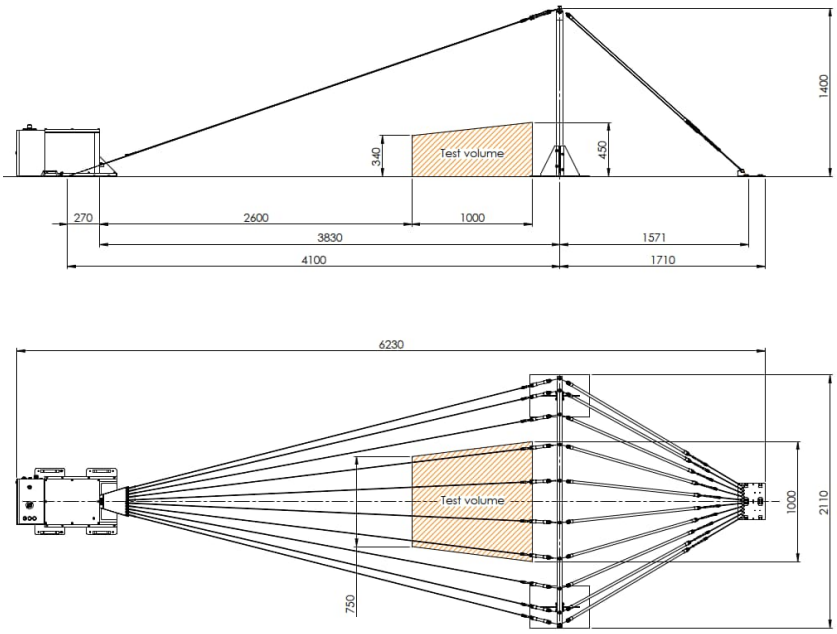
Montena's generator produces a high voltage pulse, that propagates along a radiating line mounted over a conductive ground plane. The electromagnetic field pulse that is generated under the line is vertically polarised and can exceed 50 kV/m in the test volume. The system and the related pulse measurement equipment are controlled by software through fibre optic links. The system has been designed for easy assembly and disassembly and can be operated both, indoor ideally in a semi-anechoic chamber, or outdoor when the weather is good.



SPECIFICATIONS	
Type	**NEMP140**
Standard	MIL-STD 461 E / F / G / H, test procedure RS105
Dimensions of the test volume	see drawing on next page
Charging voltage	< 5 to 80 kV, positive and negative polarities
Peak electric field strength	50 kV/m at full charging voltage
Electric field polarisation	vertical
Pulse rise time (10 - 90%)	2.3 ± 0.5 ns
Pulse duration (50 – 50%)	23 ns ± 5 ns
Line structure	bounded wave line / TEM mode
Generator configuration	direct discharge
Power rating	90 - 264 Vac / 47 - 63 Hz / < 70 VA / fuse 10 AT
Generator dimensions	82 x 39 x 55 cm (L x H x W)
Generator weight	about 70 kg (with oil)
System dimensions	6.3 x 1.4 x 2.1 m (L x H x W)

System dimensions

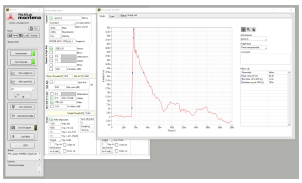
All dimensions are in millimeters.



Ordering information

TYPE	DESCRIPTION
NEMP140	Transportable NEMP test system according to MIL-STD 461 versions E, F, G and H / RS105, height of the radiation line 1.4 m, for a test amplitude of up to 50 kV/m.

Related products / accessories



TYPE	DESCRIPTION
GMRL140	Material to build a temporary ground plane, consisting of a special metallic mesh and the related assembly material
SFE3-5G, SGE3-5G	D-dot sensors to measure the electric field pulse
SFM2G, SGM2G	B-dot sensors to measure the magnetic field pulse
BL3-5G	Balun for the free field sensors
MOL2000T or MOL3000	Shielded analog fibre optic link to connect the sensors to the measurement equipment
SB3G	Shielded enclosure, for the protection of the oscilloscope
PULSELab	Pulse measurement and processing software application, lifetime license for installation on one PC.
...	Others measurement accessories such as field sensor mounting kits, dielectric masts, coaxial cables ..etc, are proposed too.