



ELDIS
RADAR
SYSTEMS

ANECHOIC CHAMBER

The anechoic chamber solves the issue of testing, measuring and verifying the properties of a wide range in products of technical practice. It is mainly used for scientific and research activities in the field of measuring the parameters of antennas, antenna arrays and RF circuits.

MEASURING OPTIONS

- › Far-field measurement (cuts or 3D)
- › Near-field measurement with FIAFTA transformation to far-field (3D)
- › Gain measurement in swept frequency band
- › Setting and checking the ellipticity
- › Setting and measuring differential phase and amplitude
- › Setting and optimization PSV and return loss

CHAMBER COMPONENTS

- › Albatross Projects – manufacturer anechoic chamber
- › Rohde&Schwarz – ZNA26 vector analyzer
- › Maturo – positioning system
- › A set of calibrated normal antennas for measuring gain – A-INFO
- › Rohde&Schwarz – AMS32 measuring system

MAIN TECHNICAL PARAMETERS

- › Spherical positioning system
- › Frequency range of measurement
 - › 1 GHz - 18 GHz (20 GHz with limitation)
- › Test antenna
 - › cross-polarized Vivaldi test antenna R&S TC-TA18
- › Inner dimensions between absorbers
 - › length: 9,1 m
 - › width: 4,3 m
 - › height: 3,9 m
- › Shielding effectiveness
 - › SE \geq 100 dB @ 1 GHz – 18 GHz
- › Antenna distance
(from the flange on the positioner to test antenna)
 - › min: 180 cm
 - › max: 600 cm
- › Load capacity of the positioning system
(weight of the antenna under test)
 - › max 150 kg
(with a shift of the center of mass from the positioner flange by max. 90 cm)

