

## Who are we ?



Electromagnetic Compatibility Laboratory - EMCLab is located in Stefan cel Mare University of Suceava campus, in a modern new building. The laboratory is accredited by RENAR Bucharest, in conformity with SR EN ISO/CEI 17025:2005 international standard, for electromagnetic compatibility tests on information technology equipments, electrical and electronic equipments used in residential, commercial and industrial areas, 2.4 GHz broadband transmission equipments, communication networks equipments, Bluetooth devices, Short Range Devices (SRD) and Radio Frequency Identification (RFID) equipments (the complete list of equipments may be found on the web-site). The laboratory started as a CEEX 2006 research project, the implementation team being formed by specialized personnel, well trained and with a lot of experience in the accredited field.

The laboratory is involved in research projects related to test methods improvements, impact of electromagnetic radiation on humans and other live organisms, and biological effects of EMF. We are opened for collaboration in the EMC field with production partners, universities and research institutes for research projects partnerships.

We assist electrical and electronic equipments producers and importers by offering technical support for modifications to the design of the equipments under test - in the case the measured values are not between the limits from the standards, including pre-compliance tests at very low prices.

## What are the tests we can make ?

We can test electrical and electronics equipments with external dimensions not exceeding 800 (L) x 800 (W) x 1200 (H) mm and 500 kg maximum weight, in conformity with the following international standards:

- EN 55022
- EN 61000-4-2
- EN 61000-4-3
- EN 61000-4-11

We are accredited for tests including:

- Radiated emissions tests (80 MHz - 3 GHz)
- Conducted disturbances at the mains terminals
- Radiated, radio-frequency, electromagnetic field immunity tests
- Electrostatic discharges immunity tests
- Voltage dips, short-interruptions and voltage variations immunity tests

We are using state-of-the-art equipments for all the tests we perform. Special test configurations or conditions may be created by request.

## Where and how may you find us ?

Electromagnetic Compatibility Laboratory

Stefan cel Mare University of Suceava  
13, Universitatii Street, Building G  
Suceava - 720229, Romania

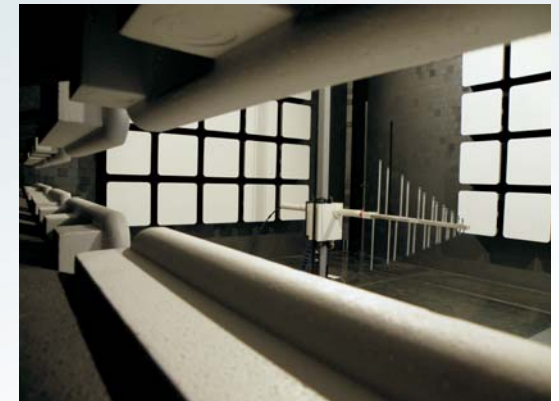
Tel: +40 745 594 640 (08-20)  
Tel: +40 230 522 978 ext. 160 (M-F between 08-16)  
Fax: +40 230 524 801

E-mail: [contact@emclab.ro](mailto:contact@emclab.ro)  
Web: [www.emclab.ro](http://www.emclab.ro)



Universitatea  
Ștefan cel Mare  
Suceava

## ELECTROMAGNETIC COMPATIBILITY LABORATORY



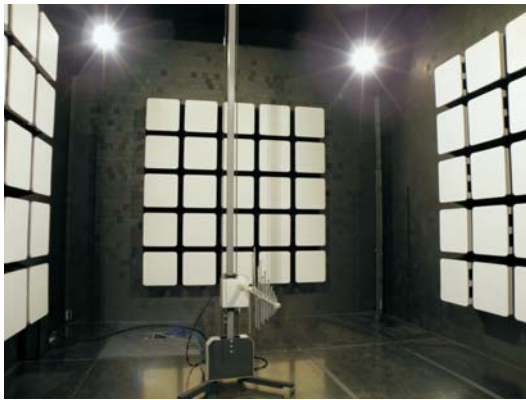
EN 17025/2005 Accredited Laboratory

[www.emclab.eu](http://www.emclab.eu)  
[www.emclab.ro](http://www.emclab.ro)  
[www.emclab.info](http://www.emclab.info)

# What infrastructure do we have ?

## Semi-anechoic Chamber

Test distance of 3 m  
External dimensions 9 (L) x 6 (W) x 5,4 (H) m  
Conform to CISPR 22, EN 50147-2, ANSI C63.4 și IEC 1000-4-3  
EMS 26 MHz - 18 GHz / EMI 30 MHz - 18 GHz  
Certified by ARC, Seibersdorf, Austria  
Manufactured by TDK RF Solutions, USA



## EMI Test Receiver

Rohde & Schwarz ESU 26



## Signal Generator

Rohde & Schwarz SMR 20



## Power Meter

Rohde & Schwarz NRP 26



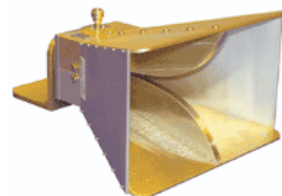
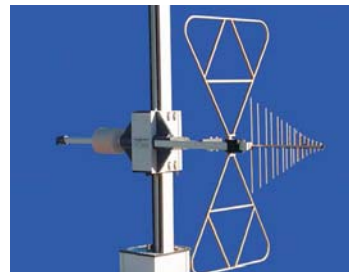
## Solid-state Broadband High Power Amplifiers

Amplifier Research and ORPHIR



## Hybrid / Horn Log Periodic Antennas

TDK RF Solutions



## System Interface Controller

TDK SI 300



## Video Camera Controller

TDK SI 300CC



## Compact ESD Simulator

EMTEST dito



## Portable Spectrum Analyzer

NARDA STS SRM-3000



## EMS & EMI Test Software

TDK Radiated Immunity Lab  
TDK Standard Emissions Lab

