

The image shows the interior of an EMC test chamber. The walls, floor, and ceiling are covered with blue, pyramidal-shaped electromagnetic absorbers designed to eliminate reflections. In the center, a small round white table holds a power supply unit, a smartphone, and other electronic components. Two bright spotlights illuminate the scene from above. On the left, a metal structure, possibly a test fixture or a rack, is partially visible.

EMC-KNOW HOW

Meets Power Supply Design

WE POWER YOUR PRODUCTS

POWER SUPPLIES FOR DISTRIBUTED POWER ARCHITECTURE

RECOM

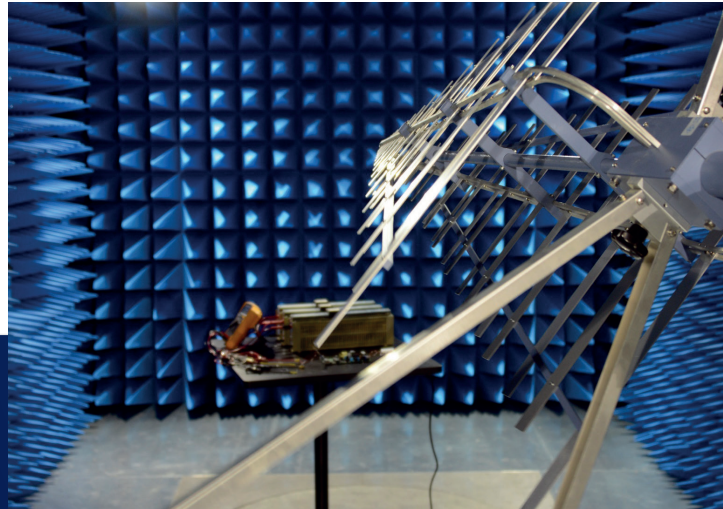
COMPETENCE IN HIGH FREQUENCY

In order to concentrate its efforts even more effectively on improving power supplies, RECOM has built its 3000m² campus-style headquarters in Gmunden, Austria. Among its world-class facilities, RECOM is particularly proud of its new lab building.

Apart from extending the existing R&D, testing, and quality laboratories, RECOM has set up a state-of-the-art EMC lab, thereby adding a significant new facility to the high-frequency research sector in Southern Germany and Austria. Equipped by Rohde & Schwarz, this new lab features a 3m SAC (Semi-Anechoic Chamber) conforming with the CISPR-16 standard. It enables the company to

perform pre-compliant measurements within the frequency range of 30MHz to 3GHz. The SAC caters to the automated measurement of specimens with a diameter of up to 1.5 meters.

The lab also includes all equipment required for measurements according to EN 61000-4-x and EN 61000-3-2.



PRE-COMPLIANCE MEASUREMENTS

The in-house certification process is crucial to RECOM's latest products, and it is also available to high-end customers as a value-added service.

Pre-compliance measurements:

Emission tests:

- Radiated Emission up to 3GHz, distance 3 metres
- Conducted emission from 9KHz to 30 MHz
- Harmonics according to EN 61000-3-2

Immunity tests:

- ESD (Electrostatic discharge) according to EN 61000-4-2
- Burst according to EN 61000-4-4
- Surge according to EN 61000-4-5
- Voltage dips, short interruptions, and variation according to EN 61000-4-11
- HF-induced disturbances according to EN 61000-4-6

The radiated emission is measured in an automated process in a semi anechoic chamber SAC.



EMC-RELATED SERVICES

RECOM supports its customers with its equipment and know-how, helping them to solve EMC-related problems of all kinds.

The new laboratory includes measuring equipment for the manual identification of sources of both radiated and conducted interference.

Using close-field probes, it is possible to locate interference sources manually so that the issue can be dealt with promptly. With assistance from RECOM's EMC experts, customers are now able to identify and rectify interference problems quickly and accurately.



EXTERNAL LAB

Customers and partner companies have access to our best laboratories to test their latest prototypes.

Thanks to our close cooperation with research organizations, universities, and companies in the power supply sector, RECOM is kept up to date with the latest developments in technology.

As a result, a cluster of innovative power supply manufacturers have cropped up in the tech-triangle of Munich, Linz, and Graz.



WE POWER YOUR PRODUCTS

The RECOM group is a power supply manufacturer headquartered in Austria with over four decades of experience in developing and manufacturing the latest standard and custom power converter technology, from sub-1W to tens of kW.

Customers worldwide, have access to our vast selection of DC/DC converters and AC/DC power supplies along with a broad range of switching regulators and LED drivers, all of which comply with international safety standards and carry the latest certifications.



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