



RF Shielded Enclosures for Reliable Wireless Device Testing

**DIAMOND MICROWAVE CHAMBERS LTD**

RF SHIELDED ENCLOSURES

Reliable Shielding. Accurate Results.
Engineered for Excellence.

Our RF Shielded Enclosures provide superior isolation and consistent performance for a wide range of testing applications.



**PRECISE TESTING
ZERO INTERFERENCE**

**HIGH RF SHIELDING**
Ensures accurate & interference-free testing

**PRECISION ENGINEERING**
Built for consistent performance and long-term reliability

**WIDE FREQUENCY RANGE**
Ideal for 5G, Wi-Fi, IoT, automotive & more

**CUSTOM SOLUTIONS**
Tailored designs to meet your specific testing needs

OUR RF SHIELDED ENCLOSURE SOLUTIONS

**RF SHIELDED ENCLOSURE -
OTA TESTING SUB 6GHz**

**RF SHIELDED ENCLOSURE -
DUAL OTA TESTING**

**RF SHIELDED ENCLOSURE
CUSTOMIZED SOLUTIONS**

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**VISIT OUR WEBSITE**
www.dmc rf.eu

**Superior Shielding Performance**
**Global Quality Standards**
**Expert Support & After-Sales Service**

Wireless communication technologies continue to evolve rapidly, making accurate RF testing more important than ever. Whether manufacturers are developing smartphones, IoT devices, automotive electronics, medical equipment, or industrial wireless systems, reliable testing environments are essential for achieving consistent performance. [RF Shielded Enclosures](#) provide a controlled testing environment that isolates devices from external radio frequency interference, ensuring dependable and repeatable measurements.

At **Diamond Microwave Chambers Ltd**, we provide **RF Shielded Enclosures** designed for research laboratories, production facilities, and quality assurance departments. Our advanced enclosure solutions help organizations improve testing accuracy while meeting international wireless testing standards.

What Are RF Shielded Enclosures?

RF Shielded Enclosures are specially engineered structures that prevent external electromagnetic signals from entering the testing area while also containing signals generated by the device under test. This controlled environment allows engineers to perform accurate wireless performance evaluations without interference from nearby communication systems.



These enclosures are widely used in telecommunications, defense, aerospace, consumer electronics, automotive electronics, healthcare devices, and industrial automation.

A high-quality **RF Shielded Enclosure** creates an isolated space where antennas, wireless modules, Bluetooth devices, Wi-Fi equipment, GPS receivers, and IoT products can be tested with confidence.

Why RF Shielding Matters:

Modern electronic devices operate across multiple wireless frequencies. Even minor interference can affect measurement accuracy, resulting in incorrect test data and product failures.

Using professional RF Shielded Enclosures offers several advantages:

- Eliminates unwanted RF interference
- Improves measurement repeatability
- Supports regulatory compliance
- Accelerates product development
- Reduces costly redesigns
- Enhances production quality control

By maintaining a stable testing environment, manufacturers can confidently validate wireless performance before products reach customers.

Applications of RF Shielded Enclosures:

Today's industries rely on RF isolation for numerous testing applications.

Telecommunications:

Engineers validate wireless devices including.

- Wi-Fi routers
- Bluetooth devices
- Cellular modules
- 5G equipment
- Wireless gateways

Automotive Industry:

Vehicle manufacturers test.

- ADAS systems
- Vehicle communication modules
- Radar sensors



- GPS receivers
- Connected vehicle technologies

Consumer Electronics:

Manufacturers evaluate.

- Smartphones
- Tablets
- Smart home devices
- Wearables
- Gaming accessories

Medical Electronics:

Medical devices require dependable RF testing to ensure safe wireless operation inside hospitals and healthcare environments.

RF Shielded Enclosure – OTA Testing Sub 6GHz:

As Sub-6GHz wireless communication continues to dominate global 5G deployments, accurate Over-The-Air testing has become increasingly important.

Our [RF Shielded Enclosure – OTA Testing Sub 6GHz](#) solutions are specifically designed to evaluate antenna performance, signal strength, receiver sensitivity, throughput, and communication reliability without external interference.

Benefits include:

- Stable OTA measurements
- High shielding effectiveness
- Compact footprint
- Easy equipment integration
- Fast production testing

These solutions support manufacturers developing next-generation wireless products for commercial and industrial markets.

RF Shielded Enclosure – Dual OTA Testing:

Testing multiple wireless devices simultaneously improves manufacturing efficiency and reduces production costs.

Our [RF Shielded Enclosure – Dual OTA Testing](#) systems enable parallel evaluation of two devices while maintaining excellent RF isolation between test zones.

Advantages include:

- Increased testing capacity



- Higher production throughput
- Reduced operational costs
- Consistent measurement quality
- Efficient manufacturing workflow

Dual OTA systems are ideal for high-volume production environments where testing speed directly impacts productivity.

Key Features of Modern RF Shielded Enclosures:

Modern testing facilities require flexible enclosure designs capable of supporting changing wireless technologies.

Why Manufacturers Choose Diamond Microwave Chambers Ltd:

When investing in RF testing infrastructure, selecting an experienced supplier is critical.

At **Diamond Microwave Chambers Ltd**, we provide **RF Shielded Enclosures** engineered for precision, durability, and long-term reliability.

Our solutions offer:

- Custom engineering
- High-performance RF shielding
- Global installation support
- Technical consultation
- Scalable chamber designs
- International quality standards
- Professional after-sales service

Every **RF Shielded Enclosure** is designed to deliver consistent performance across demanding testing environments.

Selecting the Right RF Shielded Enclosure:

Before purchasing an enclosure, consider.

- Frequency range
- Device size
- Automation requirements
- Production volume
- Future scalability
- Shielding effectiveness
- Testing standards



- Available laboratory space

Working with experienced RF chamber specialists ensures the final solution meets both current and future testing needs.

Future Trends in RF Shielded Enclosures:

Emerging technologies continue to increase testing complexity.

Future enclosure developments include:

- AI-assisted testing automation
- Remote chamber monitoring
- Smart environmental controls
- Robotic device positioning
- Digital reporting systems
- Multi-band OTA testing
- 6G wireless compatibility

Organizations investing in modern **RF Shielded Enclosures** today will be better prepared for tomorrow's wireless innovations.

Reliable wireless testing begins with a stable and interference-free environment. High-quality **RF Shielded Enclosures** help manufacturers produce accurate measurement results, improve product quality, reduce development time, and meet international compliance requirements.

At **Diamond Microwave Chambers Ltd**, we provide **RF Shielded Enclosures**, **RF Shielded Enclosure – OTA Testing Sub 6GHz**, and **RF Shielded Enclosure – Dual OTA Testing** solutions tailored to diverse industrial applications.

Visit <https://dmcrf.eu/rf-shielded-enclosures/>