

Kiwa Electrical Compliance

Product testing, certification, and compliance for the worldwide market



Kiwa Electrical Compliance is a well-established and experienced UKAS accredited EMC, Radio and Safety testing facility providing; product testing, certification, and compliance for the worldwide market.

STATE OF THE ART FACILITIES

Within our test facility we have custom built laboratories / anechoic chambers containing the latest test equipment enabling us to meet the most arduous standards. From small handheld devices to large equipment we have a suitable chamber.

Our Facilities Comprise of:

- Full-service 3m CISPR 16 *Semi-Anechoic Chamber (H)*
- Two 3m CISPR 16 *Semi-Anechoic Chamber (M & B)*
- 3m Fully Anechoic Chamber *Anechoic Chamber (Q)*
- Fully Anechoic Chamber *Microwave Chamber (A)*
- Two Radio Laboratories *(A & N)*
- Two General Purpose Screened Rooms *(F & D)*
- Automotive Electrical Test Screened Room *(R)*
- Two Transient / Surge / VDI and ESD Test Laboratories *(C, T)*
- Safety Laboratory *(S)*
- 3 and 10m Open Area Test Site *(OATS)*

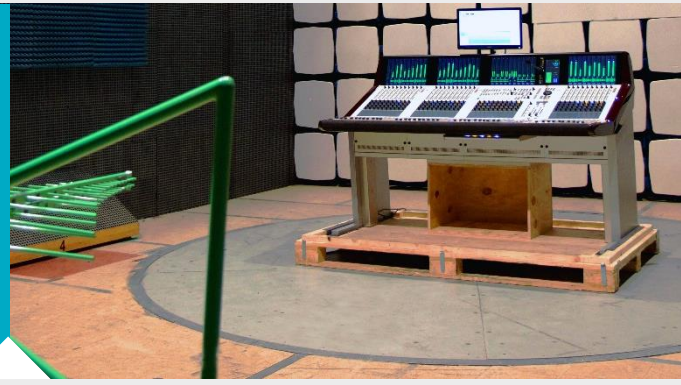


This is just an indicative sample of our full range of testing capabilities. A full list of our services can be found on our website www.kiwa.co.uk

Kiwa Electrical Compliance (Brentwood) offer:

- Radiated Immunity: 20Hz – 18GHz up to 30V/m (depending on frequency and test method)
- Test methods include bulk current injection, stripline, electric and magnetic free field
- Radiated Emissions: 20Hz – 230GHz Conducted Emissions: 20Hz – 30 MHz
- Conducted Immunity to 400 MHz
- Transients: to 4.4.kV, Surges: 4.4 kV, Voltage Dips & Interruptions <16A Harmonics & Flicker: <16A
- ESD: Variable networks up to ± 16.5 kV, contact and air.
- Magnetic Immunity DC & 16 kHz -100 kHz
- Vehicular Transients 12 & 24V
- Radiated and Conducted Emissions Radio Testing up to 231GHz
- Pre-amplification to 40GHz
- Thermal chamber -40 to +80°C
- FM, AM and Audio measurements
- Spectral analysis 9kHz-110GHz
- Receiver BER, SNR, SINAD
- RF power up to 100W
- Adjacent Channel Power 150kHz-22.5GHz
- Frequency Error and Stability to 26.5GHz
- Safety dynamic, electrical and mechanical tests including visual inspections

Visit www.kiwa.co.uk to understand more about our comprehensive range of services, or get in touch by calling +44 (0)1277 352219 / (0)1495 229219 or email uk.electrical@kiwa.com



LABORATORY DIMENSIONS

Semi-Anechoic Chamber H

- Overall Dimensions: (H) 6.0m x (L) 10.0m x (W) 5.5m
- Chamber Double Door Dimensions: (H) 3.5m x (W) 2.0m
- 4m motorised antenna mast
- Pneumatic controls for remote aerial rotation
- Large remote-control turntable
- Turntable diameter - 4m
- Turntable load capacity - 3 tonnes
- Cables routed under the floor from the control room to centre of the turntable
- Remote video monitoring system

Semi-Anechoic Chamber M

- Overall Dimensions: (H) 5.5m - 3.6m x (L) 8.4m x (W) 5.5m
- 4m motorised antenna mast
- Remote-control turntable
- Turntable diameter - 1.2m
- Remote video monitoring system

Semi-Anechoic Chamber B

- Overall Dimensions: (H) 4.8m x (L) 6.2m x (W) 3.6m
- 4m motorised antenna mast
- Remote-control turntable
- Turntable diameter - 1.2m
- Remote video monitoring system

Fully Anechoic Chamber Q

- Overall Dimensions: (H) 2.93m x (L) 6.70m x (W) 3.10m

Fully Anechoic Chamber A

- Overall Dimensions: (H) 2.31m x (L) 3.40m x (W) 2.46m

Screened Room F

- Overall Dimensions: (H) 2.4m x (L) 3.6m x (W) 3.6m

Screened Room D

- Overall Dimensions: (H) 3.0m x (L) 3.6m x (W) 2.4m

Screened Room R

- Overall Dimensions: (H) 2.25m x (L) 3.05m x (W) 2.77m
- Maximum size of EUT: (H) 3.0m x (W) 2.5m

ELECTRICAL SUPPLIES:

Single Phase	50Hz	230V	30A supply
Single Phase	50Hz	115V	20A supply
Single Phase	60Hz	115V	17A supply
Single Phase	400Hz	115V	12A supply
Three Phase	50Hz	400V	30A supply

KEC Brentwood provides indoor customer facilities, including comfortable seating and bench space with television, daily newspapers and internet access. Tea and coffee making facilities are available and refreshments are provided. Outdoor undercover seating areas are also provided.