



Electromagnetic Compatibility Testing & Consultancy Service

Electromagnetic Compatibility Centre

Introduction

Hong Kong Productivity Council Electromagnetic Compatibility (EMC) Centre, with aid from the Industry and Technology Council of the Hong Kong Government, had been officially opened in 1997. The EMC Centre is an independent laboratory to offer accredited EMC testing services pursuant to various national/regional testing standards. The Centre endeavors to assist manufacturers to achieve compliance with relevant requirement through the comprehensive technical support, hence promoting industry's productivity and competitiveness.

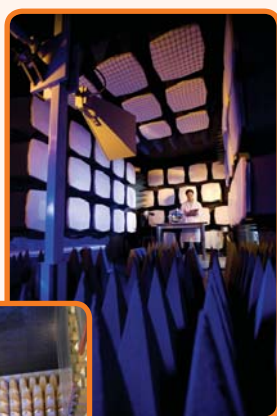


Service Target

- Manufacturers of electrical and electronic products, and automotive components
- Laboratories and Certification Bodies
- Engineering Consultancy Firms and R&D Companies
- Government Departments and Public Bodies

Service Scope

- Pre-compliance evaluation
- Full compliance testing
- Training
- Consultancy



Main Product Range

Category	Test Standard
Broadcast audio receivers and associated equipment	EN 55013 EN 55020 FCC Part 15
Information technology equipment	EN 55022 EN 55024 FCC Part 15
General lighting equipment and luminaries	EN 55015 EN 61547
Household appliances, electric tools and similar apparatus, electric / electronic toys	EN 55014-1 EN 55014-2
Low power radio communication equipment, and radio remote control devices	EN 300 220-1 EN 300 220-2 EN 301 489-3 FCC Part 15
Generic products (residential and domestic environment)	EN 61000-6-3 EN 61000-6-1 EN 61000-3-2 EN 61000-3-3
Generic products (industrial environment)	EN 61000-6-2 EN 61000-6-4
Automotive components EMC and electrical testing	EC Automotive Directive CISPR 25 EN 50498 ISO 7637 ISO 16750-2 ISO 10605
Railway system and apparatus	EN 50121-3-2
Medical electrical equipment	EN 60601-1-2
Radio equipment	ETSI 300 086-1 ETSI 300 296-1 ETSI 300 328

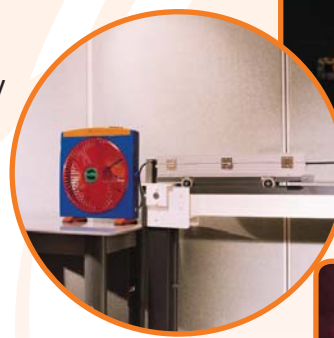
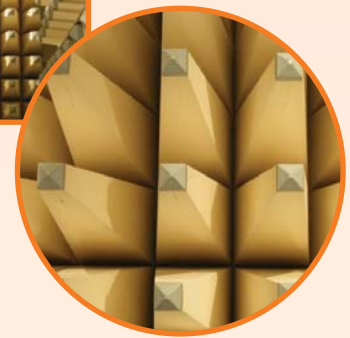
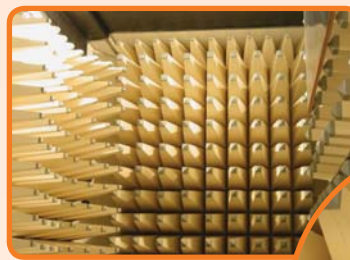
Key Test Equipment and Facilities

- One 10m semi-anechoic chamber
- One 3m multi-functional fully anechoic chamber
- One 3m fully anechoic chamber
- One 9m x 4m x 2.1m and two 3m x 3m x 2.1m shielded room
- EMI test receiver of frequency range from 20Hz to 40GHz
- Spectrum analyzer of frequency range from 9kHz to 40 GHz
- Antennas of frequency ranges from 9kHz to 40GHz
- Signal generators of frequency ranges from 9kHz to 40GHz
- Environment chamber (-20 °C to +150 °C)
- Harmonics current emissions and voltage fluctuation and flicker test set
- RF power amplifiers of 250W (10kHz to 230MHz) and 1000W (80MHz to 1GHz)
- Microwave power amplifier of 400W (1GHz to 2GHz), 50W (4GHz to 6GHz) and 30W (2GHz to 4GHz)
- Electric transient signal generators for electrostatic discharge test, electric fast transient/burst immunity tests, surge immunity tests, and voltage dips, short interruptions and short interruption immunity test sets
- Radio communication test sets
- Transient conduction electrical disturbance measurement and immunity test system for automotive electronic & electrical equipment

Besides testing equipment and facilities, our professionals in EMC Centre can also provide comprehensive technical consultation and EMC testing services for the industries in:

- Information technology
- Automotive
- Railway
- Medical, etc.

We are also open for new collaboration with T&C bodies in developing new EMC testing services.



For further information, please contact
EMC Centre, Hong Kong Productivity Council