

CNE VII – Comparison Noise Emitter



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Unique in the market place, the CNE VII provides continuous radiated output up to 7GHz.

- Continuous, broadband output
 - ✓ Full spectrum measurements and analysis
- Stable output
 - ✓ Repeatable measurements
- 1.5GHz to 7GHz output
 - ✓ Measurements at today's operating frequencies
- Compact and portable
 - ✓ Comparisons between sites and environments
- Battery powered
 - ✓ No power or interconnecting cable effects on measurements

Radiated Emissions

The CNE VII is a broadband noise source which provides continuous output power from 1.5GHz to 7GHz. The broadband nature of the output enables the observation of details within this band of the spectrum which would be missed with a comb generator. An integral antenna is housed in the top of the unit. The CNE VII is an ideal source for carrying out checks on open area test sites (OATS) and anechoic chambers.

The CNE VII is battery powered to allow operation as an independent source without the effect of power or interconnecting cables, which would modify the fields generated. The CNE VII is housed in a cylindrical metal enclosure ensuring uniformity of the radiated field and allowing it to be orientated to give either vertical or horizontal polarisation. The metal enclosure also allows the unit to be mounted in direct contact with a metal ground plane as may be required by some tests.



Applications

- Comparison between different measurement environments such as OATS or anechoic chambers
- Radiated measurement systems validation and verification
- Reference source for:
 - Daily pre-test checks as required by the accreditation authorities e.g. ISO17025
 - Long-term performance monitoring
- Investigation of screened room behaviour
- Shielding effectiveness measurements

Specifications

Frequency Range	1.5GHz to 7GHz radiated using an integral antenna
Output connector	N/A
Temperature stability	20°C to 35°C <1dB
Time stability	Projected <1dB over a 12 month period
Dimensions	150mm diameter x 150mm including battery pack
Weight	4kg (including battery pack)
Power supply:	8V, 5Ahr rechargeable battery pack. Supplied with charger
Operating time	7 hours typical with fully charged battery pack
Indicators	Power on – green LED Battery low – red LED

Standard Order Kits

Part Number	Description	Parts Included
CNEVIIKIT01	Standard CNE VII comparison continuous noise emitter kit with integral antenna and battery charger	<ul style="list-style-type: none"> ● CNE VII noise source ● Rechargeable battery pack ● Universal input battery charger ● Hard case ● Standard test CAL07

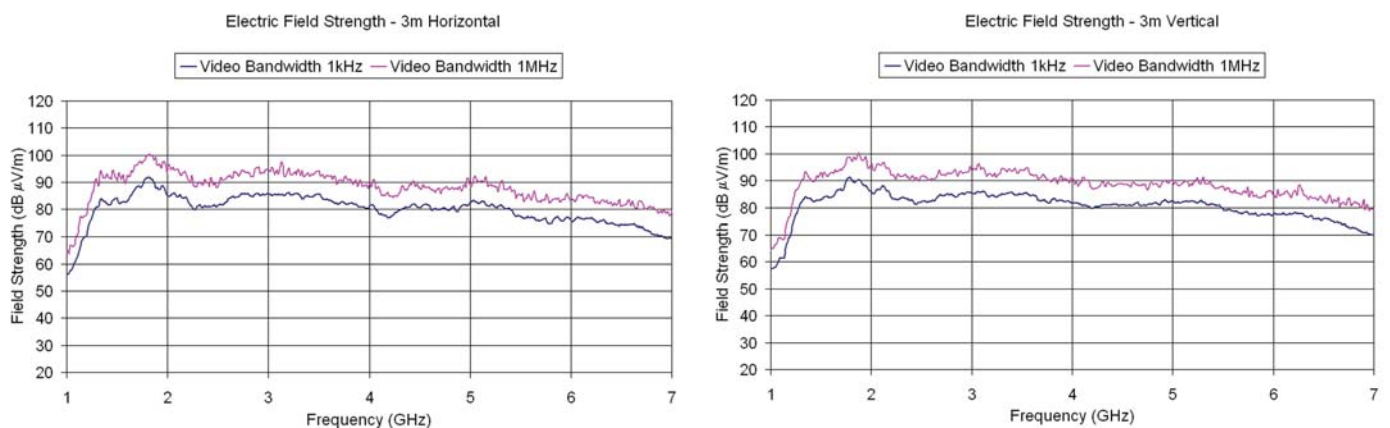
Accessories

Battery pack	BPK01	8V, 5Ahr battery pack
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Output Measurement Results

Radiated output	CAL07	1GHz to 7GHz horizontal and vertical polarisation electric field strength in FAR using a spectrum analyser at 3m
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Typical Output Measurement Results



York **EMC** Services Ltd

York EMC Services Ltd,
The University of York,
Heslington, YORK, YO10 5DD, UK.
Tel +44 (0)1904 434440
Fax +44 (0)1904 434434
Email enquiry@yorkemc.co.uk
www.yorkemc.co.uk/instrumentation