EMSCOPE

Innovative EMI receiver for modal measurements
New Dual FFT-based Modal EMI Receiver

THE STRAIGHT PATH TO COMPLIANCE

EMI receiver
- For conducted emissions measurements.
- According to CISPR 16-1.
- Peak, Quasi-Peak, and Average Detectors.
- CISPR and MIL standards resolution bandwidths.

Modal receiver
- Common and differential mode measurements.
- Real-time.
- Solve EMC issues.
- Reduce testing and manufacturing costs.

Maximum measurement speed
- Dual channel simultaneous.
- FFT based.
- All detectors at the same time.

All-in-one
- Everything embedded inside the EMSCOPE:
  - Dual channel receiver.
  - Two transient limiters.
  - 16A dual port LISN (optional).
  - Software.

Advanced Capabilities
- Waterfall/Spectogram function.
- Oscilloscope function.
- Reporting.

Cost Effective
- Compact.
- Double functionality.
- Software included with free updates.

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Technical Specifications

Standard for EMI test receiver / LISN	According to CISPR 16-1-1 / 16-1-2 standards
Detectors	Peak, quasi-peak and average
Type of measurements	EMI (line and neutral) and Modal (common and differential mode) conducted emissions
Full spectrum measurement time	Equal to the measurement dwell time, which is totally configurable from 10ms to 15s
Resolution bandwidth filters	200 Hz, 9 kHz, 120 kHz (CISPR); 1 kHz, 10 kHz (MIL)
Integrated circuits	Pre-amplifiers and pulse limiters
Internal LISN	Single Phase 16A, 50 Ω || (50 µH + 5 Ω) / 250 µH
Maximum continuous current/voltage	16 A @230 VAC / 300VAC- 325 VDC (socket dependent)
Power-supply operating frequency	DC to 60 Hz. Universal range
Artificial hand / connector type	510 Ω + 220 pF / 4 mm banana
Mains socket	IEC C20
EUT Socket (Connector for EUT)	Schuko socket (Type F) *see options

Models

	Freq. range	Recevier channels	Transient Limiters	Internal 1P LISN	110-MHz Upgrade	Fiber/ETH conver	Software
EMSCOPE	9KHz – 30MHz	2	2	Yes	Available	Included	Included
EMSCOPE RX2	9KHz – 30MHz	2	2	No	Available	Included	Included
EMSCOPE RX4	9KHz – 30MHz	4	4	No	Available	Included	Included
EMSCOPE RX4 LZ2	9KHz – 30MHz	4	4	Yes	Available	Included	Included

Options

UPGR-110	Enhance frequency range from 9 KHz-30 MHz to 9 KHz-110 MHz
UPGR-OSC	Additional software license for Time Domain Analysis (Oscilloscope mode)
Fiber/USB Converter	Fiber optic converter to plug EMSCOPE directly to USB port
EUT SOCKET	Sockets available: EU, USA, UK, CN-AUS