



EMI Test System (EMC300A/EMC500) Specification

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[Lead in CFL & LED Test Instruments](#)

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Content Table

| Name | Model | Characteristic |
|---|-----------------------------|---|
| EMI Test System (EMC300A) -----Page 2 | EMI Receiver | Frequency=9K-30MHz; Used for electronic ballast, CFL, LED and other lighting manufactory design. More than 1,000 units sold in illumination industry, most of famous company have used this test instrument, such as Philips, Panasonic, GE Lighting and etc. |
| | Artificial Network Power | Equipped with artificial network can test disturbance voltage of mains terminal. The maximum withstanding current is 5A. |
| | Attenuator | 20dB Attenuate, it is an auxiliary accessory to help test |
| EMI Test System (EMC500) -----Page 3 | EMI Receiver | Testing frequency=9K-300MHZ and this system is used to test Conductive Emission according to newly CISPR 15. The instrument complies with newly European and USA standard, test result reliable and accurate. |
| | Artificial Network Power | Equipped with artificial network can test disturbance voltage of mains terminal. The maximum withstanding current is 5A. |
| | Attenuator | 20dB Attenuate ,it is an auxiliary accessory to help test |
| | Coupling Decoupling Network | EMI receiver equipped with coupling /decoupling network is equivalent to test radiated electromagnetic disturbance of electric lighting appliance with frequency from 30M-300mHz |

1. Function and technical parameters of EMC300A



- Range of sweeping frequency: 9 kHz~30MHz
- Range of peak value, quasi-value average value: 20dB μ V~120 dB μ V
- sweeping band width:
 - 9kHz~150kHz: 200Hz
 - 150kHz~30MHz: 9kHz
- Intervals of sweeping frequency:
 - 9kHz~150kHz: 100Hz, 200Hz,, 400Hz selectable
 - 150kHz~30MHz: 5kHz, 10kHz, 20kHz selectable
- Range of EMI test time:
 - 9 kHz~150kHz: for peak value: 50~500mS
for quasi-value: 4000~15000mS;
 - 150 kHz~30MHz: for peak value and average value 5~500mS
for quasi-value 2000~15000mS
- Total accuracy: ± 3 dB
- Input resistance 50 Ω , Max input signal is 2V and protected at 5V;
- New standard can be added freely and easily. For your convenience, GB17743, FCC, EN55015, GB4343 standards are already in instrument, user can choose to use directly.
- Windows XP or Vista in English Version, which is nice and easy for operation. Nice print format, color printout available.
- Power supply for instrument: 220V/50Hz $\pm 10\%$.

Function of Artificial Network Power:

- 1) Use 50 Ω /50 μ H + 5 Ω single phase analog network according to requirement of international standard;
- 2) Rated work current: 5A;
- 3) Power supplied according to load requirement, 220V or 110V optional;
- 4) Phase line or null line optional on front panel for test.

2. Function and technical parameters of EMC500



- Range of sweeping frequency: 9kHz~300MHz
- Range of peak value, quasi-value, average value: 20dBμV~120dBμV
- Sweeping band width:9kHz~150kHz:
200Hz;150kHz~30MHz:9kHz;30MHz~300MHz:120kHz
- Step length of sweeping frequency: 9kHz~150kHz: 100Hz, 200Hz, 400Hz selectable
- 150kHz~30MHz: 5kHz, 10kHz, 20kHz selectable
- 30MHz ~300MHz: 50kHz, 100kHz, 200kHz selectable
- Range of EMI test time: 9kHz~150kHz: for peak value: 50~500ms, for quasi-value: 1000~15000ms
- 150kHz~30MHz: for peak value and average value: 5~500ms, for quasi-value: 1000~15000ms
- 30MHz ~300MHz: for peak value and average value: 2~500ms, for quasi-value: 1000~8000ms
- Accuracy: ±3dB
- Input resistance 50Ω, max input signal is 2V and protected at 5V
- New standard can be added in freely and easily. For your convenience, GB17743, FCC, EN55015, GB4343 standards are already in instrument, user can choose to use any of them directly
- Offer software in English version, running under Windows98/2000/XP/Vista, nice-looking, easy to operate. Nice report format, support color print
- Power supply for instrument: 220V/50Hz ±10%

The Next Pages are the test report from EMC500: