

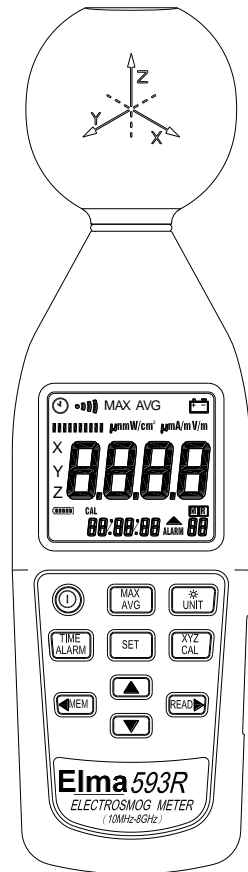
Elma 593R ELECTROSMOG METER (3 axis)

FEATURE:

- Frequency range 10MHz to 8.0GHz.
- 3 axis isotropic measurements of **EMF**.
- Non-directional (isotropic) measurement with three-channel measurement probe.
- High dynamic range.
- Configurable alarm threshold and memory function.
- Use rechargeable lithium-ion battery pack
- LCD backlight function.
- Easy & safety to use.

APPLICATIONS:

- High frequency (RF) electromagnetic wave field strength measurement.
- Mobil phone base station antenna radiation power density measurement.
- Wireless communication applications (CW, TDMA, GSM, DECT).
- RF power measurement for transmitters.
- Wireless LAN (Wi-Fi) detection, installation.
- Spy camera, wireless bug finder.
- Cellular/Cordless phone radiation safety level.
- Microwave oven leakage detection.
- Personal living environment EMF safety.



ELECTRICAL SPECIFICATIONS

Sensor type	Electric field (E).
Frequency range	10MHz to 8GHz
Directional characteristic	Isotropic, 3-dimensional.
Measurement range (CW signal > 10MHz)	20mV/m to 108.0V/m , 53µA/m to 286.4mA/m , 1µW/m ² to 30.93W/m ² , 0µW/cm ² to 3.093mW/cm ²
Dynamic range	Typical 75dB
Absolute error (@1V/m and 10MHz)	±1.0dB
Frequency response (taking into account typ. CAL factor)	±1.0dB (10MHz to 1.9GHz) ±2.4dB (1.9GHz to 8GHz)
Isotropy deviation	Typ. ±1.0dB for f >10MHz
Overload limit	10.61mW/cm ² (200V/m)
Temperature response (0 to 50°C)	±0.5dB

GENERAL SPECIFICATIONS

Measurement method	Digital, triaxial measurement
Directional characteristic	Isotropic, triaxial
Measurement range selection	One continuous range
Display resolution	0.1mV/m, 0.1 µA/m, 0.1 µW/m ² , 0.001 µW/cm ²
Setting time	Typically 1s (0 to 90% of meas. value)
Display refresh rate	Typically 0.5 seconds
Display type	LCD 4 digit
Audible alarm	Buzzer
Measurement units	mV/m, V/m, µA/m, mA/m, µW/m ² , mW/m ² , W/m ² , µW/cm ² , mW/cm ²
Measurement display value	Instantaneous measured value, maximum value or maximum average value
Measurement alarm function	Adjustable threshold with ON/OFF
Measurement calibration factor CAL	Adjustable
Manual data memory and read storage	99 sets (only recall by meter)
Rechargeable lithium-ion battery	3.6V, 1940mAh
Battery operation time	Charging time: Approx. 3 hours
Dimensions	Approx. 10 hours
Weight (including battery)	Approx. 67(W) x 60(T) x 247 (L)mm
Accessories	Approx. 250g
	Instruction manual, Rechargeable Lithium-ion battery, Carrying case, AC adaptor (DC 5V 1.5A)