NOTE:

*** Electromagnetic wave field strength/power density reduces very fast with distance (distance square), keep a good distance from the high frequency RF signal source can reduce the high frequency radiation effect. Alumina foil or window sun reflector film (silver color) can be used as a effective and cheap shielding material for most of RF radiations.**

*** ED85EX does not have build-in internal Antenna, Please use external Antenna with SMA connector or adaptors to connect to ED85EX for measuring the RF field strength, Use external antenna with right frequency coverage for the RF signal to be measured. The included whip antenna is centered for 2.4GHz, it can be used for general use. Broadband antenna such as Log Periodic Antenna or UWB Antenna can be used for more broad frequency coverage.**

*** ED85EX is designed for quick living environment RF radiation evaluation and reference only. Official RF safety radiation measurement procedure is complicate and should be handled by trained technical person with lab instruments. Safety range standard are listed here as a reference only. ED85EX is not a medical instrument, Please do not use it in medical, legal certification or other related applications. This product is not for commercial rental purpose/use.**

The European Community provided general guidelines in its Council Recommendation of July 1999.[1] ICNIRP published similar guidelines in April 1998.[2] Table I gives a sampling of the international and national field-strength limit values for the general public and continuous exposure

		950Mhz	1850Mhz
International	Council Recommendation 1999/519/EC	42 V/m ($4.75W/m^2$)	59 V/m ($9.25W/m^2$)
International	ICNIRP Guidelines, April 1998	42 V/m ($4.75W/m^2$)	59 V/m ($9.25W/m^2$)
Austria	ÖNORM S1120	49 V/m ($6.33W/m^2$)	61 V/m ($10W/m^2$)
Belgium	Belgisch Staatsblad F.2001-1365	21 V/m ($1.18W/m^2$)	30 V/m ($2.31W/m^2$)
Germany	26. Deutsche Verordnung	42 V/m ($4.75W/m^2$)	59 V/m ($9.25W/m^2$)
Italy	Decreto n. 381, 1998	6 V/m ($0.1W/m^2$) 20 V/m ($1W/m^2$)	6 V/m ($0.1W/m^2$) 20 V/m ($1W/m^2$)
The Netherlands	Health Council	51 V/m ($6.92W/m^2$)	83 V/m ($18W/m^2$)
Switzerland	Verordnung 1999	4 V/m ($0.04W/m^2$)	6 V/m ($0.1W/m^2$)
United States	IEEE C95.1	49 V/m ($6.33W/m^2$)	68 V/m ($12W/m^2$)
China	Draft: National Quality Technology Monitoring Bureau	49 V/m ($6.33W/m^2$)	61 V/m ($10W/m^2$)
Japan	Radio-Radiation Protection Guidelines, 1990	49 V/m ($6.33W/m^2$)	61 V/m ($10W/m^2$)

Sampling of international and national field-strength limits for mobile communications frequencies (reference only).

Specification:

Sensor type:	Electric field sensor with SMA connector
Frequency range:	1MHz to 8GHz (SMA RF input)
Sensitivity:	-55dBm to 0dBm
Dynamic range:	60 dB
Input Impedance:	50 Ohms
Connector type:	SMA female
Peak power measurement:	$1.5uw/m^2$ to $0.58w/m^2$
Display type:	Digital LCD display, LED color segment display
Unit of measurements:	dBm, uw/m^2, mw/m^2 (auto scale)
Display error rate:	±1.5dBm
LCD back light:	12- 15 seconds auto-off
Display of data:	LCD 3 and 5 digit, 8 LED color segment, Histogram of 32 reading, LCD Bar segment (5 dBm/segment)
Safety standard indication:	3 safety range indication by 3 Red LED
Battery used:	9V alkaline battery, (not included)
Battery life:	>20 hours
Internal Antenna:	None
External Antenna:	External whip antenna included. (2.4GHz band)