



HERMON LABORATORIES

FCC ID: KDYPMD37M

Environmental evaluation and exposure limit according to FCC CFR 47part 1, §1.1307, §1.1310

The Wireless PIR Detector, model PMD37M are classified as a mobile device. The Wireless PIR Detector includes transmitter operating according to FCC part 15 subpart C section 15.247 (FHSS)

The FCC limit for power density for general population/uncontrolled exposure is $P_{1500} = 0.6 \text{ mW/cm}^2$ for 300 – 1500 MHz frequency range:

$$P = 902.25/1500 = 0.6 \text{ mW/cm}^2$$

The power density $P (\text{mW/cm}^2) = P_T / 4\pi r^2$

P_T is the transmitted power, which is equal to the peak transmitter output power 19.58 dBm plus maximum antenna gain 0 dBi, the maximum equivalent isotropically radiated power EIRP is

$$P_T = 19.58 \text{ dBm} + 0 \text{ dBi} = 19.58 \text{ dBm} = 90.78 \text{ mW.}$$

The power density at 20 cm (minimum safe distance, required for mobile devices), calculated as follows:

$$\text{Compliance with FCC limit: } 99.54 \text{ mW} / 4\pi (20 \text{ cm})^2 = 0.018 \text{ mW/cm}^2 \ll 0.6 \text{ mW/cm}^2$$

General public cannot be exposed to dangerous RF level.

Mrs. S. Peysahov Sheynin,
certification specialist, EMC & Radio

EXPERTS IN GLOBAL COMPLIANCE SOLUTIONS



EMC



Radio



Telecom



Environmental



Product Safety



International Approvals

Hermon Laboratories Ltd.

POB 23, Binyamina 3055001 Israel

Phone: +972 4 628 8001, Fax: +972 4 628 8277

Email: mail@hermonlabs.com, www.hermonlabs.com