



HERMON LABORATORIES

FCC ID: KDYZX10M

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

The Remote Control are classified as a mobile device. The Zone Expander 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  $f/1500 \text{ mW/cm}^2$  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 1.84 dBm plus maximum antenna gain 0 dBi, the maximum equivalent isotropically radiated power EIRP is

$$P_T = 19.56 \text{ dBm} + 0 \text{ dBi} = 19.56 \text{ dBm} = 90.36 \text{ mW}.$$

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

$$\text{Compliance with FCC limit: } 90.36 \text{ mW} / 4\pi (20 \text{ cm})^2 = 0.018 \text{ mW/cm}^2 \ll 0.6 \text{ mW/cm}^2$$

General public cannot be exposed to dangerous RF level.

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### EXPERTS IN GLOBAL COMPLIANCE SOLUTIONS



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