RF exposure evaluation according to §15.247(e)(i) and §1.1307

Limit for power density for general population/uncontrolled exposure is 1 mW/cm^2 (for 1500 –100,000 MHz frequency range).

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

P_T is the transmitted power, which is equal to the peak transmitter output power 29.7 dBm plus maximum antenna gain 32.5 dBi, the maximum equivalent isotropically radiated power EIRP is

$$P_T = 29.7\ dBm + 32.5\ dBi = 62.2\ dBm = 1659586\ mW.$$

The minimum safe distance "r", where RF exposure does not exceed FCC permissible limit, is

$$r = \sqrt{\{P_T / (P \times 4\pi)\}} = \sqrt{\{1659586 / 12.56\}} = 364\ cm.$$

The warning has been inserted in User Manual.