

RF Safety Exposure Per FCC Requirement

The Maximum Permissible Exposure (MPE) distance per ANSI C95.1, table 2 for uncontrolled Environments is $f(\text{Mhz})/1500$ [mW/cm^2]. The maximum output power for the pager is 2000 mw and the numerical value of the antenna gain is 4 (6dBi). Therefore, the power density is:

$$(2000 \text{ mw} \times 1.995)/(4 \pi r^2) = 900 \text{ MHz}/1500 [\text{mW}/\text{cm}^2]$$

Therefore, the maximum calculated MPE distance (r) is 32 cm. The installation instructions shall indicate that at least 34cm (32+2 margin) separation be provided between the antennas and the people.