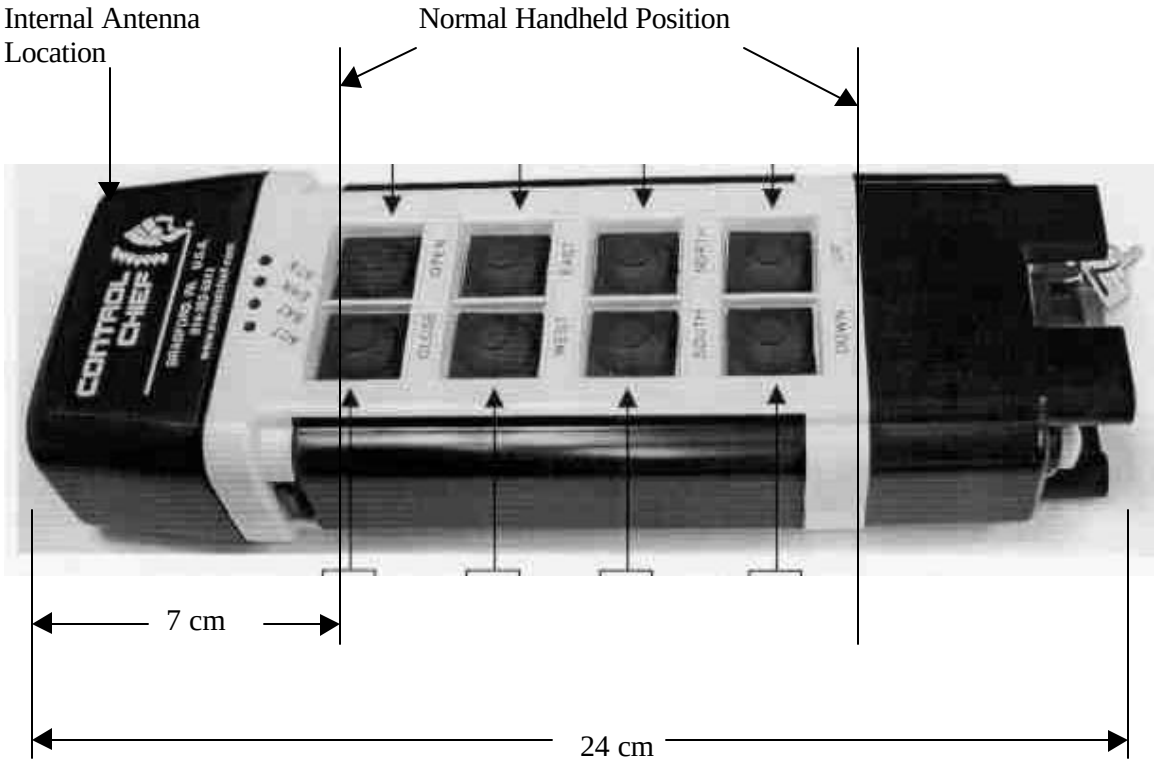
RF Exposure Statement



The above diagram shows the distance between the user's hand (in the center around the push buttons), and the antenna which is internal at the very tip of the housing. This distance is 7 cm as shown. The antenna is a Linx "Splatch" Grounded Line Planar type which is mounted on a PCB and located internally at the very top end of the plastic housing. The antenna is omni directional with a power gain of 2 dBi. Based on this, we conclude the following:

RF Exposure Calculations:

The following information provides the **minimum** separation distance for the highest gain antenna provided with the the **Model: Command Chief Transmitter**, as calculated from **FCC OET 65 Appendix B, Table 1B** Guidlines for General Population/Uncontrolled Exposure. This calculation is based on the highest EIRP possible from the system, considering maximum power and antenna

gain, and considering a 0.3 mW/cm^2 uncontrolled exposure limit. The Friss formula used was:

$$r = \sqrt{(Po*G) / (4*Pi*S)}$$

Where S = 0.3 mW/cm^2 for 450 MHz (Freq/1500)
Where Po = 11 mW (Peak RF)
Where G = Isotropic antenna gain (2 dBi or 1.6 numeric)
Where r = Minimum Safe Distance from antenna (cm)

For: 2 dBi Omni Antenna …… r = 2.1 cm

Conclusion

Since the normal handheld position provides 7 cm of separation between the user's hand and the antenna, the user would not be exposed to excessive RF radiation when holding the device properly, as the minimum 2 cm safe distance is maintained.