Client: ARES Corp. Model: Dark Eyes 7010 FCC ID: VFN-DARKEYES7010 Standard: FCC Part 90 RTL WO: 2007188

Appendix A: RF Exposure Compliance

FCC Rules and Regulations Part 1.1307, 1.1310, 2.1091, 2.1093:

Using FCC 1.1310 Table 1B as guidance, the maximum permissible RF exposure for a controlled environment is 5 mW/cm² for the frequencies used in this device ((8,750 to 10,038 MHz). The worst case power at the center frequency of the band of operation is used for the calculation below.

Environment: Occupational/Controlled Exposure

Device category: Mobile per Part 2.1091

Modulation Type/Mode: Pulsed

Antenna Type(s):

Antenna	Туре	Gain (dBi)	Numeric Gain
9.1 to 9.5 GHz Mini Splashplate	14" reflector	27.9	617

The actual power density for the EUT calculated as shown below, using the manufacturer's peak rated power:

$$S = (P \times G)/(4 \times \pi \times d^2)$$

where:

S = power density

P = transmitter conducted power in (W)

G = antenna numeric gain

d = distance to radiation center (m)

Frequency (MHz)	Antenna Gain	Peak Conducted	Separation	Power Density
	(dBi)	Power (mW)	Distance (cm)	(mW/cm²)
9,394	27.9	1,000	100	5

Conclusion:

The device must use a 100 cm separation distance to comply with the MPE requirements of 5 mW/cm² exposure to the end user. The manufacturer has selected a more conservative safe distance of 120 cm.

Notice:

Radiation Exposure Statement

The required separation distance for this equipment is 120 cm. All users must be kept 120 cm away from the antenna. This equipment may only be used in a controlled environment.