

RF Exposure / MPE Calculation

No. : 10003588H

Applicant : silex technology, Inc.
Type of Equipment : SX-DS-3000WN
Model No. : SX-DS-3000WN
FCC ID : N6C-SXDS3000WN

silex technology, Inc. declares that Model : SX-DS-3000WN
complies with FCC radiation exposure requirement specified in the FCC Rules 2.1091 (for mobile).

RF Exposure Calculations:

The following information provides the minimum separation distance for the highest gain antenna provided with the "SX-DS-3000WN" as calculated from (B) Limits for General Population / Uncontrolled Exposure of TABLE 1- LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE) of §1.1310 Radiofrequency radiation exposure limits.

This calculation is based on the highest EIRP possible from the system, considering maximum power and antenna gain, and considering a 1.0mW/cm² uncontrolled exposure limit. The Friis formula used was:

$$S = (P * G) / (4 * \pi * r^2)$$

Where

P = 45.39 mW (Average output power)
G = 1.58 Numerical Antenna gain; equal to 2.00 dBi
r = 20.0 cm

For: SX-DS-3000WN

$$S = 0.01431 \text{ mW/cm}^2$$

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