

RF Exposure / SAR Statement

No. : 32CE0340-SH-01-A

Applicant : **Kenwood Corporation**
Type of Equipment : **GPS NAVIGATION SYSTEM**
Model No. : **KW-NT500HDT**
FCC ID : **IOMKWNT500HDT**

Kenwood Corporation declares that Model : GPS NAVIGATION SYSTEM complies with FCC radiation exposure requirement specified in the FCC Rules 2.1091. The "KW-NT500HDT" has 4.82 mW of conducted Peak Output power and 7.08 mW of EIRP. This equipment is considered as a mobile device so that SAR testing is excluded. The Following calculation is the reference data for 20cm distance.

RF Exposure Calculations:

The following information provides the minimum separation distance for the highest gain antenna provided with the "KW-NT500HDT" as calculated from FCC OET Bulletin 65 Appendix A, Table (B) Limits 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 1.0mW/cm² uncontrolled exposure limit. The Friis formula used was:

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

Where

P = 4.82 mW (Maximum peak output power)
G = 1.47 Numerical Antenna gain; equal 1.67 dBi
r = 20.0 cm

For: KW-NT500HDT

$$S = 0.00141 \text{ mW/cm}^2$$

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