

RF Exposure / SAR Statement

No. : 30DE0120-YK-A

Applicant : Sony EMCS Corporation Kisarazu TEC
Type of Equipment : Digital Stereo Transmitter
Model No. : TMR-RF4000
FCC ID : AK8TMR4000

Sony EMCS Corporation Kisarazu TEC declares that Model : Digital Stereo Transmitter complies with FCC radiation exposure requirement specified in the FCC Rules 2.1091. The "TMR-RF4000" has 8.51 mW of conducted Peak Output power and 5.75 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 "TMR-RF4000" 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 = 8.51 mW (Maximum peak output power)
G = 0.68 Numerical Antenna gain; equal -1.70 dBi
r = 20.0 cm

For: TMR-RF4000

$$S = 0.00114 \text{ mW/cm}^2$$

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