

Federal Communication Commission
Authorization and Evaluation Division
7435 Oakland Mills Road
Columbia, MD 21046

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Attention: Reviewing Engineer

Company: Sony Corporation
Model: PCG-6J1L
FCC ID: AK8PCG6J1L

Due to the construction and the position of the antenna a distance under normal operating conditions of more than 20 cm is guaranteed.

Regarding MPE limits, GPUC environment limits maximum exposure to 1 mW/cm².

The power density is:

$$S = E^2 / 3770 = 13 \text{ H}^2 = \text{limit} < 1 \text{ mW/cm}^2$$

Where: S = Power density (mW/cm²)
E = electrical field strength (V/m)

This formula converted using the EIRP is

$$P_{\text{out}} * G / 4\pi * r^2 \text{ mW/cm}^2$$

Maximum EIRP 2400 MHz band: 0.56W at 2412 MHz

$$560 / 4\pi * 400 = 0.11 \text{ mW/cm}^2 \text{ at } 20 \text{ cm.}$$

Maximum EIRP 5000 MHz band: 0.186W at 5825 MHz

$$186 / 4\pi * 400 = 0.04 \text{ mW/cm}^2 \text{ at } 20 \text{ cm.}$$

Calculations are based on standard formula for calculating field strength at a distance and converting power density using free space impedance.

If you should have any questions regarding this submission, please feel free to contact the undersigned.

Yours truly,



Lothar Schmidt
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CETECOM Inc.