

Federal Communication Commission Authorization and Evaluation Division 7435 Oakland Mills Road Columbia, MD 21046 02/02/2006

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:

$$S = E^2/3770 = -13 H^2 = limit < 1 mW/cm^2$$

Where: $S = Power density (mW/cm^2)$

E = electrical field strength (V/m)

This formula converted using the EIRP is

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

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.