



MDE_PARRO_1222

To Whom It May Concern:

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**Maximum Permissible Exposure - according to FCC -
Parrot ZIKMU SOLO**

Dear Sirs,

please find our Maximum Permissible Exposure calculations for the Parrot ZIKMU SOLO.

Best Regards

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Maximum Permissible Exposure

<i>Frequency range (MHz)</i>	<i>Power density (mW/cm²)</i>
400 - 1500	f/2000
1500 - 100000	1 mW/cm ²

Calculations 2.4 GHz band

Maximum peak output power at antenna input terminal: 14.5 dBm

Prediction distance **R**: 20 cm
Prediction frequency: 2412 MHz
MPE limit **S**: 1 mW/cm²

Equation **S = P * G / (4πR²)**

- S = power density
- P = power input to the antenna
- G = power gain of the antenna in the direction of interest relative to an isotropic radiator
- R = distance to the centre of radiation of the antenna

Maximum permissible antenna gain: **-0.4 dBi**

power density reached value: **0.0051 mW/cm²**

Prediction

The maximum allowed MPE value of 1 mW/cm² will not be reached in a distance of 20 cm in case that an antenna with an antenna gain of -0.4 dBi would be used. This means that the power density levels in a distance of 20 cm are in accordance with the FCC regulations as long as the used antenna has a gain below -0.4 dBi.