



CTK Co., Ltd.
The First Leader of Global Regulatory Compliance

CTK Co., Ltd.

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Tel: +82-31-339-9970 Fax: +82-31-624-9501
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RF EXPOSURE EVALUATION

Applicant : LifePrint Products, Inc.

Applicant Address : 4667 Golden Foothill Parkway, suite 102 EL Dorado Hills, CA 95762

Kind of Product : Lifeprint 2x3 Slim Printer

Equipment model name : LP007

FCC ID : 2AJH8LP007

Certification Number IC : 23905-LP007

Antenna type : Chip Antenna

Antenna Gain : 3.29 dBi



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** MPE Calculations **

The EUT will only be used with a separation of 20 centimeters or greater between the antenna and the body of the user. The MPE calculation for this exposure is shown below.

The peak radiated output power (EIRP) is calculated as follows:

$EIRP = P + G$	Where, P = Power input to the antenna (mW) G = Power gain of the antenna (dBi)
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The numeric gain(G) of the antenna with a gain specified in dB is determined by:

$$G = \text{Log}^{-1} (\text{dB antenna gain} / 10)$$

Power density at the specific separation:

$S = PG / (4R^2\pi)$	Where, S = Maximum power density (mW/cm ²) P = Power input to the antenna (mW) G = Numeric power gain of the antenna R = Distance to the center of the radiation of the antenna (20cm = limit for MPE)
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The Maximum permissible exposure (MPE) for the general population is 1 mW/cm² .
The power density at 20cm does not exceed the 1 mW/cm² limit.

Estimated safe separation:

$R = \sqrt{(PG / 4\pi)}$	Where, P = Power input to the antenna (mW) G = Numeric power gain of the antenna R = Distance to the center of the radiation of the antenna (20cm = limit for MPE)
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Mode	P (dBm)	P (mW)	G (dBi)	S (mW/cm ²)	R (cm)
GFSK	7.83	6.07	3.29	0.0026	20
8-DPSK	6.73	4.71		0.0020	