

Compliance Certification Services Inc.

Report No: C130722Z01 -RP1_MPE FCC ID: LNQWPB300 Date of Issue: August 1, 2013

RADIO FREQUENCY EXPOSURE

LIMIT

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See §15.247(b)(4) and §1.1307(b)(1) of this chapter.

EUT Specification

EUT	Pocket Projector
	WLAN: 2.412GHz ~ 2.462GHz
Frequency band	WLAN: 5.18GHz ~ 5.32GHz / 5.50GHz ~ 5.70GHz
(Operating)	☐ WLAN: 5.745GHz ~ 5825GHz
	Others _
Device category	Portable (<20cm separation)
	Mobile (>20cm separation)
	Others
Exposure classification	Occupational/Controlled exposure $(S = 5mW/cm^2)$
	General Population/Uncontrolled exposure
	$(S=1mW/cm^2)$
Antenna diversity	Single antenna
	Multiple antennas
	Tx diversity
	Rx diversity
	Tx/Rx diversity
Max. output power	24.11dBm (257.63mW)
Antenna gain (Max)	2.0dBi (Numeric gain:1.58)
Evaluation applied	MPE Evaluation
	SAR Evaluation
Note:	
1. The maximum output power is <u>24.11dBm (257.63mW)</u> at <u>2437MHz</u> (with <u>2.0 numeric</u>	
antenna gain.)	
2. For mobile or fixed location transmitters, no SAR consideration applied. The minimum	
separation generally be used is at least 20 cm, even if the calculations indicate that the	
MPE distance would be lesser.	

TEST RESULT

No non-compliance noted.



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Given
$$S = \frac{P \times G}{4 \Pi d^2}$$

Equation 1

Where d = distance in cm

P = Power in mW

G = Numeric antenna gain

 $S = Power Density in mW/cm^2$

Maximum Permissible Exposure

EUT Output Power=257.63mW

Numeric antenna gain=1.58

Substituting the MPE safe distance using d=20 cm into *Equation 1*:

Yields

The power density S = 257.63 \times 1.58/ (4 Π \times 400) cm^2 =0.0810 mW/cm^2

(For mobile or fixed location transmitters, the maximum power density is $1.0 \, mW/cm^2$ even if the calculation indicates that the power density would be larger.)