## MPE Calculations (Fixed Location)

The device is not a portable device (i.e. intended to be worn on the body or be hand-held), so it is classified as a fixed mounted device. The user's manual specifies a minimum separation distance of at least 22.8cm, consistent with this classification.

FCC part 1.1310, Table 1 limits the power density for uncontrolled exposure. The power density, Pd (mW/cm2) calculated from the maximum EIRP, Pt (mW) and the distance, d (m), between the transmitting antenna and the closest person, can be calculated using:

Formula is:

$$Pd = Pt / (4*pi*d^2)$$

Frequency (MHz)	MPE Limit (mW/cm <sup>2</sup> )	Eirp (mW)	Pd at 20cm (mW/cm <sup>2</sup> )	Distance where Pd = Limit (cm)
2400 - 2483.5	1	5985.79	1.19	21.8

Band Mode	Modo	Mode Output		ut Power Antenna gain		RP	Channels Available	Channels Used	Total EIRP	
	Peak	Average	(Max)	dBm	W	Charmers Available	Charmers Osed	W	dBm	
2400 - 2483.5	CCK	-	25.0	8.0	33.0	2.00	11	1	1.995	33.00
2400 - 2483.5	CCK	-	25.0	8.0	33.0	2.00	11	1	1.995	33.00
2400 - 2483.5	CCK	-	25.0	8.0	33.0	2.00	10	1	1.995	33.00
2400 - 2483.5	CCK	-	-	8.0	-	-	10	1	ı	-
	Totals								5.986	37.77

MPE exposure is based on Three 2.4GHz transmitting with one 2.4GHz receiving. Device can be programmed to transmit simultaneously.

Formula is:

 $Pd = Pt / (4*pi*d^2)$ 

Frequency (MHz)	MPE Limit (mW/cm <sup>2</sup> )	Eirp (mW)	Pd at 20cm (mW/cm <sup>2</sup> )	Distance where Pd = Limit (cm)
5725 - 5825	1	6516.67	1.30	22.8

Band Mode	Mode Outpr		Power	Antenna gain	EIRP		Channels Available	Channels Used	Total EIRP	
	Peak	Average	(Max)	dBm	W	Chamileis Available	Charmers Used	W	dBm	
2400 - 2483.5	CCK	ı	25.0	8.0	33.0	2.00	10	1	1.995	33.00
2400 - 2483.5	OFDM	ı	25.0	8.0	33.0	2.00	10	1	1.995	33.00
2400 - 2483.5	OFDM	-	25.0	8.0	33.0	2.00	10	1	1.995	33.00
5725 - 5825	OFDM	-	19.3	8.0	27.3	0.53	10	1	0.531	27.25
	Totals:								6.517	38.14

MPE exposure is based on Three 2.4GHz transmitting with one 5GHz transmitting. Device can be programmed to transmit simultaneously.

Formula is:

 $Pd = Pt / (4*pi*d^2)$ 

Frequency (MHz)	MPE Limit (mW/cm <sup>2</sup> )	Eirp (mW)	Pd at 20cm (mW/cm <sup>2</sup> )	Distance where Pd = Limit (cm)
2400 - 5825	1	5052.29	1.01	20.1

Band	Modo	Mode Output		Antenna gain	EIRP		Channels Available	Channels Used	Total EIRP	
Bariu Wode	Peak	Average	(Max)	dBm	W	Chamileis Available	Charmers Osed	W	dBm	
2400 - 2483.5	CCK	1	25.0	8.0	33.0	2.00	11	1	1.995	33.00
2400 - 2483.5	CCK	1	25.0	8.0	33.0	2.00	11	1	1.995	33.00
5725 - 5825	OFDM	-	19.3	8.0	27.3	0.53	10	1	0.531	27.25
5725 - 5825	OFDM	1	19.3	8.0	27.3	0.53	10	1	0.531	27.25
	Totals:								5.052	37.03

MPE exposure is based on two 2.4GHz with two 5GHz transmitter. Device can be programmed to transmitt simultaneously.

Formula is:

 $Pd = Pt / (4*pi*d^2)$ 

Frequency (MHz)	MPE Limit (mW/cm <sup>2</sup> )	Eirp (mW)	Pd at 20cm (mW/cm <sup>2</sup> )	Distance where Pd = Limit (cm)
5725 - 5825	1	3587.92	0.71	16.9

Band Mode	Mada	Output	Power	Antenna gain	EIRP		Channels Available	Channels Used	Total EIRP	
	Peak	Average	(Max)	dBm	W	Charineis Available	Charmers Osed	W	dBm	
2400 - 2483.5	CCK	ı	25.0	8.0	33.0	2.00	10	1	1.995	33.00
5725 - 5825	OFDM	ı	19.3	8.0	27.3	0.53	10	1	0.531	27.25
5725 - 5825	OFDM	ı	19.3	8.0	27.3	0.53	10	1	0.531	27.25
5725 - 5825	OFDM	ı	19.3	8.0	27.3	0.53	10	1	0.531	27.25
	Totals:							4	3.588	35.55

MPE exposure is based on one 2.4GHz transmitting with three 5GHz transmitting. Device can be programmed to transmit simultaneously.

Formula is:

 $Pd = Pt / (4*pi*d^2)$ 

Frequency (MHz)	MPE Limit (mW/cm <sup>2</sup> )	Eirp (mW)	Pd at 20cm (mW/cm²)	Distance where Pd = Limit (cm)
5725 - 5825	1	2123.54	0.42	13.0

Band	Modo	Mode Output		t Power Antenna gain		RP	Channels Available	Channels Used	Total EIRP	
Danu	Pea	Peak	Average	(Max)	dBm	W	Charineis Available	Chamileis Osed	W	dBm
5725 - 5825	OFDM	1	19.3	8.0	27.3	0.53	10	1	0.531	27.25
5725 - 5825	OFDM	1	19.3	8.0	27.3	0.53	10	1	0.531	27.25
5725 - 5825	OFDM	1	19.3	8.0	27.3	0.53	10	1	0.531	27.25
5725 - 5825	OFDM	-	19.3	8.0	27.3	0.53	10	1	0.531	27.25
	Totals								2.124	33.27

MPE exposure is based on Four 5GHz transmitter. Device can be programmed to transmitt simultaneously.