

FCC RF EXPOSURE REPORT

FCC ID: R7RDMC23X6

Project No. : 1410008
Equipment : Surpass
Model : DMC-23X6 (X=0~9,A~Z)
Applicant : VAST TECHNOLOGIES INC.
Address : 7F, NO.80,SEC.1,KUANG FU
RD.SANCHUNG,TAIPEI,TAIWAN,R.O.C.

According: : FCC Guidelines for Human Exposure IEEE C95.1

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MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi^2} = \frac{EIRP}{4\pi^2}$$

where:

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 center of radiation of the antenna

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)	Note
1		NB0159-A100BX	PCB Antenna	N/A	2.2	2.4G

TEST RESULTS

EUT :	Surpass	Model Name :	DMC-23X6
Temperature :	26 °C	Relative Humidity:	56 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX B MODE /CH01, CH06, CH11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2.2	1.6596	17.05	50.6991	0.01674751	1	Complies
2.2	1.6596	17.58	57.2796	0.01892127	1	Complies
2.2	1.6596	17.65	58.2103	0.01922872	1	Complies

EUT :	Surpass	Model Name :	DMC-23X6
Temperature :	26 °C	Relative Humidity:	56 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX G MODE /CH01, CH06, CH11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2.2	1.6596	19.64	92.0450	0.03040538	1	Complies
2.2	1.6596	20.02	100.4616	0.03318565	1	Complies
2.2	1.6596	19.78	95.0605	0.03140150	1	Complies

EUT :	Surpass	Model Name :	DMC-23X6
Temperature:	26 °C	Relative Humidity:	56 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N-20M MODE_ Total /CH01, CH06, CH11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2.2	1.6596	19.18	82.7942	0.02734956	1	Complies
2.2	1.6596	19.76	94.6237	0.03125722	1	Complies
2.2	1.6596	19.65	92.2571	0.03047547	1	Complies

EUT :	Surpass	Model Name :	DMC-23X6
Temperature:	26 °C	Relative Humidity:	56 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N-40M MODE_ Total /CH03, CH06, CH09		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2.2	1.6596	18.56	71.7794	0.02371103	1	Complies
2.2	1.6596	18.94	78.3430	0.02587917	1	Complies
2.2	1.6596	18.93	78.1628	0.02581965	1	Complies

Note: the calculated distance is 20 cm.