

RF Exposure Report

Report No.: SABIBJ-WTW-P22010912

FCC ID: HBW-GDOCAMF1

Test Model: GDOCAMF1

Received Date: Feb. 16, 2022

Date of Evaluation: Apr. 25, 2022

Issued Date: May 04, 2022

Applicant: The Chamberlain Group Inc.

Address: 300 Windsor Drive Oak Brook, IL 60523

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

Lin Kou Laboratories

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33383, TAIWAN

FCC Registration /

788550 / TW0003

Designation Number:





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Table of Contents

Relea	ase Control Record	
1	Certificate of Conformity	4
	RF Exposure	
2.1	1 Limits for Maximum Permissible Exposure (MPE)	5
2.2	2 MPE Calculation Formula	5
2.3	3 Classification	5
2.4	4 Calculation Result of Maximum Conducted Power	6



Release Control Record

Issue No.	Description	Date Issued
SABIBJ-WTW-P22010912	Original Release	May 04, 2022



1 Certificate of Conformity

Product: Camera Module

Brand: Chamberlain

Test Model: GDOCAMF1

Sample Status: Engineering Sample

Applicant: The Chamberlain Group Inc.

Date of Evaluation: Apr. 25, 2022

Standards: FCC Part 2 (Section 2.1091)

References Test KDB 447498 D01 General RF Exposure Guidance v06

Guidance:

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Gina Liu / Specialist

Approved by : , Date: May 04, 2022

Jeremy Lin / Project Engineer



2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm²)	Average Time (minutes)				
Limits For General Population / Uncontrolled Exposure								
0.3-1.34	614	1.63	(100)*	30				
1.34-30	824/f	2.19/f	(180/f ²)*	30				
30-300	27.5	0.073	0.2	30				
300-1500			f/1500	30				
1500-100,000			1.0	30				

f = Frequency in MHz; *Plane-wave equivalent power density

2.2 MPE Calculation Formula

 $Pd = (Pout*G) / (4*pi*r^2)$

where

Pd = power density in mW/cm²

Pout = output power to antenna in mW

G = gain of antenna in linear scale

pi = 3.1416

r = distance between observation point and center of the radiator in cm

2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.



2.4 Calculation Result of Maximum Conducted Power

Band	Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm²)	Limit (mW/cm²)
	2412-2462	19.23	4.3	20	0.045	1.00
WLAN	5180-5240	17.36	5.29	20	0.037	1.00
	5745-5825	19.76	5.29	20	0.064	1.00
BT LE	2402-2480	0.01	4.25	20	0.001	1.00

Note:

- 1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
- 2. The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible

Conclusion:

Both of the WLAN and BT LE can transmit simultaneously, the formula of calculated the MPE is:

CPD1 / LPD1 + CPD2 / LPD2 +etc. < 1

CPD = Calculation power density

LPD = Limit of power density

WLAN + BT LE = 0.064 + 0.001 = 0.065

Therefore the maximum calculations of above situations are less than the "1" limit.

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