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FCC ID.: Y40-FORCE Report No.: T190401N03-MF

IEEE C95.1 KDB 447498 D03 47 C.F.R. Part 1, Subpart I, Section 1.1310 47 C.F.R. Part 2, Subpart J, Section 2.1091

RF EXPOSURE REPORT

For

Standalone Cliplauncher W/7inch Touchdisplay

Model: FORCE, Force, ADA2, AdA2

Data Applies To: N/A

Trade Name: PROFESSIONAL

Issued to

inMusic Brands, Inc. 200 Scenic View Drive, Cumberland, RI 02864, U.S.A.

Issued By

Compliance Certification Services Inc. No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.)

Issued Date: August 07, 2019

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部分複製。

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REVISION HISTORY

Rev.	Issue Date Revisions		Effect Page	Revised By
00	May 23, 2019	Initial Issue	ALL	Angel Cheng
01	July 23, 2019	See the following note rev.01	ALL	Angel Cheng
02	August 07, 2019	See the following note rev.02	ALL	Angel Cheng

Note:

※ Rev.00 May 23, 2019 Issue Date:

Original Report

※ Rev.01 Issue Date: July 23, 2019 Update EUT Specification.

※ Rev.02 August 07, 2019 Issue Date:

Modify EUT name.



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1. TEST RESULT CERTIFICATION

We hereby certify that:

The equipment has been tested by Compliance Certification Services Inc., and found compliance with the requirement of the applicable standards. The test record, data evaluation and Equipment under Test (EUT) configurations represented herein are true and accurate accounts of the measurement of the sample's RF characteristics under the conditions specified in this report.

APPLICABLE STANDARDS							
STANDARD	TEST RESULT						
IEEE C95.1 2005 KDB 447498 D03							
47 C.F.R. Part 1, Subpart I, Section 1.1310 47 C.F.R. Part 2, Subpart J, Section 2.1091	No non-compliance noted						

Statements of Conformity

Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

Approved by:

Kevin Tsai

Deputy Manager

Compliance Certification Services Inc.

Komil Tson

Reporter:

Angel Cheng

Report coordinator

Compliance Certification Services Inc.

Angel Chent





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2. LIMIT

According to §15.247(i), 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 § 1.1307(b)(1) of this chapter.

3. EUT SPECIFICATION

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EUT	Standalone Cliplauncher W/7inch Touchdisplay							
Model	FORCE, Force, ADA2, AdA2							
Brand	PROFESSIONAL	•						
RF Module	SMSC	Model:	AP6255					
Frequency band (Operating)	☑ IEEE 802.11b/g, 802.11☑ Bluetooth 4.0: 2402MH		2MHz~246	2MHz				
Device category	☐ Portable (<20cm separated	•						
Exposure classification	☐ Occupational/Controlle ☑ General Population/Un (S=1.65mW/cm²)			m ²)				
Antenna Specification	PCB Antenna / Gain: 4.6	dBi (Nu	ımeric gair	n: 2.88) worst				
Maximum Output power	IEEE 802.11b Mode: IEEE 802.11g Mode: IEEE 802.11n HT20 Mode Bluetooth 4.0 Mode:	15.41 19.76 : 20.06 5.63 d	dBm dBm	(34.754 mW) (94.624 mW) (101.391 mW) (3.656 mW)				
Maximum Average output power	IEEE 802.11b Mode : IEEE 802.11g Mode : IEEE 802.11n HT20 Mode Bluetooth 4.0 Mode :	12.38 11.26 11.42 5.20 d	dBm dBm	(17.298 mW) (13.366 mW) (13.868 mW) (3.311 mW)				
Maximum Tune up Power	IEEE 802.11g Mode : 13.000 dBm (19.953 IEEE 802.11n HT20 Mode : 13.000 dBm (19.953		(19.953 mW) (19.953 mW) (19.953 mW) (3.981 mW)					
Evaluation SAR Evaluation N/A								
Reported Date	May 23, 2019							



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4. TEST RESULTS

No non-compliance noted.

Calculation

Given

$$E = \frac{\sqrt{30 \times P \times G}}{d} \quad \& \quad S = \frac{E^2}{377}$$

Where E = Field strength in Volts / meter

P = Power in Watts

G = Numeric antenna gain

d = *Distance in meters*

S = Power density in milliwatts / square centimeter

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

$$S = \frac{30 \times P \times G}{377d^2}$$

Changing to units of mW and cm, using:

$$P(mW) = P(W) / 1000$$
 and

$$d(cm) = d(m) / 100$$

Yields

$$S = \frac{30 \times (P/1000) \times G}{377 \times (d/100)^2} = 0.0796 \times \frac{P \times G}{d^2}$$
 Equation 1

Where d = Distance in cm

P = Power in mW

G = Numeric antenna gain

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



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5. MAXIMUM PERMISSIBLE EXPOSURE

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

 $S = 0.000199 \times P \times G$

Where P = Power in mW

G = Numeric antenna gain

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

IEEE 802.11b Mode:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm2)	Result
High	2462	19.953	2.88	20	0.0114	1	Pass

IEEE 802.11g Mode:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm2)	Result
Mid	2437	19.953	2.88	20	0.0114	1	Pass

IEEE 802.11n HT 20 Mode:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm2)	Result
High	2462	19.953	2.88	20	0.0114	1	Pass

Bluetooth 4.0 Mode:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm2)	Result
High	2480	3.981	2.88	20	0.0023	1	Pass