

RF Exposure Evaluation Report

Product : Smart projector
Trade mark : TOUMEI
Model/Type reference : C900, C800, C800i, C800S, C800Pro, C900Pro, C1000, C1000Pro, C2000, C2000Pro, K1, K2, K3, K4, K5, K6, K7, K8, K9, K1Pro, K2Pro, K3Pro, K5Pro, K6Pro, K7Pro, K8Pro, K9Pro, S900, S1000, V3, V5, V6, V7, V8, V9, V3Pro, V5Pro, V6Pro, V7Pro, V8Pro, V9Pro, Q1, Q2, Q3, Q5, Q6, Q8, C1, C2, C3, C4, C5, C6, C7, C8, C9, T5, T6, T7, T8, T9, X1, X2, X3, X4, X5, X6, X7, X8, X9, S1, S2, S3, S4, S5, S6, S7, S8, S9, A3, A4, A5, A6, A7, A8, A9
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Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
KDB447498D01v06
Test result : PASS

Prepared for:

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1 Version

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3 General Information

3.1 Client Information

Applicant:	SHENZHEN TOUMEI TECHNOLOGY CO., LTD
Address of Applicant:	Building 601, JinChongda Building, Building 00082, Shangwei Industrial Zone, Yukeng Trail Community, Guanhu Street, Longhua District, Shenzhen, China
Manufacturer:	SHENZHEN TOUMEI TECHNOLOGY CO., LTD
Address of Manufacturer:	Building 601, JinChongda Building, Building 00082, Shangwei Industrial Zone, Yukeng Trail Community, Guanhu Street, Longhua District, Shenzhen, China
Factory:	SHENZHEN TOUMEI TECHNOLOGY CO., LTD
Address of Factory:	Building 601, JinChongda Building, Building 00082, Shangwei Industrial Zone, Yukeng Trail Community, Guanhu Street, Longhua District, Shenzhen, China

3.2 General Description of EUT

Product Name:	Smart projector
Test Model No.:	C900
Trade Mark:	TOUMEI
EUT Supports Radios application	BT 4.2 Dual mode, 2402-2480MHz 2.4G WiFi, 802.11b/g/n(20MHz)/n(40MHz), 2412-2462MHz 5G WiFi, 802.11a/n(HT20)/n(HT40)/ac(HT20)/ac(HT40)/ac(HT80) 5G WiFi, 5150-5250MHz; 5725-5850MHz

3.3 Product Specification subjective to this standard

Frequency Range:	BT 4.2 Dual mode, 2402-2480MHz 2.4G WiFi, 802.11b/g/n(20MHz)/n(40MHz), 2412-2462MHz 5G WiFi, 802.11a/n(HT20)/n(HT40)/ac(HT20)/ac(HT40)/ac(HT80) 5G WiFi, 5150-5250MHz; 5725-5850MHz
Antenna Type:	integral antenna
Antenna gain:	BT ANT: 3.5dBi; WIFI ANT1: 3.5dBi; WIFI ANT2: 3.5dBi
Product Type:	☒ Mobile ☐ Portable ☐ Fix Location
Power Supply:	DC 12V
Conducted Peak Output Power:	14.58dBm The Conducted Peak Output Power data refer to the report EED32N80001601, EED32N80001602, EED32N80001603, EED32N80001604
Sample Received Date:	Jan. 07, 2021
Sample tested Date:	Jan. 07, 2021 to Feb. 26, 2021
Company Name and Address shown on Report, the sample(s) and sample Information was/ were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.	

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3.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

None.

3.7 Other Information Requested by the Customer

None.

4 RF Exposure Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Limits

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*(900/f ²)	6
30–300	61.4	0.163	1.0	6
300–1500			f/300	6
1500–100,000			5	6
(B) 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

A rough estimation of the expected exposure in power flux density on a given point can be made with the following equation:

$$S = \frac{P \times G}{4 \times \pi \times R^2}$$

Where:

S = power density

P = power input to the antenna

G = numeric gain of the antenna in the direction of interest relative to an isotropic radiator

R= distance to the centre of radiation of the antenna

EIRP = P*G

The antenna of the product, under normal use condition is at least 20 cm away from the body of the user.

Warning statement to the user for keeping at least 20cm separation distance and the prohibition of operating to a person has been printed on the user's manual. Therefore, the S of the device is calculated with R=20cm, and if it is below the limits, then we can conclude the device complies with the rules.

4.1.2 Test Procedure

Software provided by client enabled the EUT to transmit data at lowest, middle and highest channel individually.

4.1.3 EUT RF Exposure Evaluation

Antenna Gain: 3.5 dBi

Output Power Into Antenna & RF Exposure Evaluation Distance:

Channel	Frequency (MHz)	Max Conducted Peak Output Power(dBm)	Gain (dBi)	EIRP* (dBm)	EIRP (mW)	R (cm)	S (mW/cm ²)	Limit (mW/cm ²)	Result
Highest	2462	14.58	3.50	18.08	64.27	20	0.0128	1.0	Pass

Note: Refer to report No. EED32N80001601, EED32N80001602, EED32N80001603, EED32N80001604 for EUT test Max Conducted Peak Output Power value.

PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32N80001601 for EUT external and internal photos.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.

*** End of Report ***