



RF Exposure Evaluation Report

Application No.: DNT2606234040R08043-09484

Applicant: Shenzhen Kejinming Electronic Co.,Ltd.

Address of Applicant: 1F-6F, Building B7, Yintian Industrial Zone, Yantian Community, Xixiang Street, Bao'an District, Shenzhen, China

EUT Description: Roku TV Smart Projector

Model No.: K200

Additional Model(s): RK100, RK200, RK300, RK350, RK201, K200-W, K200-B, K200-D, K210, K210-W, K210-B, K210-D, K220, K220-W, K220-B, K220-D, K230, K230-W, K230-B, K230-D, Q350, Q350-W, Q350-B, Q350-D, Q360, Q360-W, Q360-B, Q360-D, Q370, Q370-W, Q370-B, Q370-D, Q380, Q380-W, Q380-B, Q380-D, K201, K202, K203, SW100, EPJ140AGR, NeoPix 120, J7P2504, K240, K250, RK202, NeoPix 260, NeoPix 270, J1P2602, J1P2603, K350, K400, SH180, SH250, MPJ230-WHITE, NeoPix 350, J1P2604, BRP-PT210, BRP-PT220, BRP-PT230

FCC ID: 2BU2U-K200

Power Supply: Input: AC 100-240V 50/60Hz 42W
USB Output: 5V 1.0A

Trade Mark: /

Standards: 47 CFR Part 2.1091
FCC KDB 447498 D01 v06

Date of Receipt: 2026/02/28

Date of Test: 2026/03/01 to 2026/03/19

Date of Issue: 2026/06/26

Test Result: **PASS**

Prepared By: Calc. Lin (Testing Engineer)

Reviewed By: Wayne Lin (Project Engineer)

Approved By: Heise Shan (Manager)



Guangdong DN Testing Co., Ltd.

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Note: If there is any objection to the results in this report, please submit a written inquiry to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp, and is issued by the company in accordance with the requirements of the "Conditions of Issuance of Test Reports" printed in the attached page. Unless otherwise stated, the results presented in this report only apply to the samples tested this time. Partial reproduction of this report is not allowed unless approved by the company in writing.

Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	April 20, 2026	Original Report	DNT2602280176R00327-01108
V2.0	June 26, 2026	June 26, 2026	Report 1	DNT2606234040R08043-09484

Modification:

The original report ref. No. DNT2602280176R00327-01108, dated April 20, 2026 was modified and issued on June 26, 2026 to include the following changes:Based on the original report's model K200, BRP-PT210 external bracket has been modified, with added silk screen printing;The differences between models BRP-PT220 and BRP-PT230 and model BRP-PT210 lie in the name and color.

Note:

The other test data are derived from the original model report DNT2602280176R00327-01108.



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1 General Information

1.1 Test Location

Company:	Guangdong DN Testing Co., Ltd
Address:	No. 1, West Fourth Street, South Xinfu Road, Wusha Liwu, Chang ' an Town, Dongguan City, Guangdong P.R.China
Test engineer:	Gali Lin

1.2 General Description of EUT

Manufacturer:	Shenzhen Kejinming Electronic Co.,Ltd.
Address of Manufacturer:	1F-6F, Building B7, Yintian Industrial Zone, Yantian Community, Xixiang Street, Bao'an District, Shenzhen, China
Factory:	Huizhou Kejinming Electronics Co.,Ltd
Address of factory:	Building 1, Kejinming Industrial Park, No. 4, Yingshan Second Road, Shanbei Village, Lilin Town,Zhongkai Hi tech Zone,Huizhou
EUT Description:	Roku TV Smart Projector
Model No.:	K200
Additional Model(s):	RK100, RK200, RK300, RK350, RK201, K200-W, K200-B, K200-D, K210, K210-W, K210-B, K210-D, K220, K220-W, K220-B, K220-D, K230, K230-W, K230-B, K230-D, Q350, Q350-W, Q350-B, Q350-D, Q360, Q360-W, Q360-B, Q360-D, Q370, Q370-W, Q370-B, Q370-D, Q380, Q380-W, Q380-B, Q380-D, K201, K202, K203, SW100, EPJ140AGR, NeoPix 120, J7P2504,K240, K250 , RK202, NeoPix 260, NeoPix 270, J1P2602, J1P2603, K350, K400, SH180, SH250, MPJ230-WHITE, NeoPix 350, J1P2604,BRP-PT210,BRP-PT220,BRP-PT230
Power Supply:	Input: AC 100-240V 50/60Hz 42W USB Output: 5V 1.0A
Trade Mark:	/
Hardware Version:	V1.0
Software Version:	V1.0
Chip Type:	RTL8733BU
Serial number:	PR2606234040R08043
Sample Type:	☐ Portable Device, ☐ Module, ☒ Mobile Device
Antenna Type:	☐ External, ☒ Integrated
Antenna Ports:	☒ Ant 1, ☒ Ant 2, ☐ Ant 3
Antenna Gain:	☒ Provided by applicant 2.4G:2.02dBi 5.1G:2.70dBi 5.8G:2.17dBi
Note:	*The differences between the model BRP-PT210 and the original model K200 are external bracket has been modified, with added silk screen printing;The differences between models BRP-PT220 and BRP-PT230



and model BRP-PT210 lie in the name and color; The differences between other models and model K200 lie in the name, while the motherboard, PCB circuit board, chip, electronic components is all the same.

*Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, DNT is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.

1.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

Lab A:

• **FCC, USA**

Designation Number: CN1348

• **A2LA (Certificate No. 7050.01)**

GUANGDONG DN TESTING CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 7050.01.

• **Innovation, Science and Economic Development Canada**

GUANGDONG DN TESTING CO., LTD. EMC Laboratory has been recognized by ISED as an accredited testing laboratory. CAB identifier is CN0149.

IC#: 30755.



2 RF Exposure Evaluation

2.1 RF Exposure Compliance Requirement

2.1.1 Limits

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
F=frequency in MHz *=Plane-wave equivalent power density RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).				

Friis Formula

Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * R^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

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

P_d is the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.



2.1.2 Test Procedure

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

2.1.3 EUT RF Exposure Evaluation

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2.0 / 2.0 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

This confirmed that the device comply with MPE limit.

Test Mode	Antenna	Freq(MHz)	Power [dBm]
GFSK	Ant1	2402	0.70
	Ant1	2441	0.60
	Ant1	2480	-0.13
$\pi/4$ -DQPSK	Ant1	2402	1.38
	Ant1	2441	1.34
	Ant1	2480	0.60
8-DPSK	Ant1	2402	1.81
	Ant1	2441	1.68
	Ant1	2480	0.99
GFSK 1Mbps	Ant1	2402	-0.11
	Ant1	2440	-0.59
	Ant1	2480	-1.30
GFSK 2Mbps	Ant1	2404	-0.13
	Ant1	2440	-0.59
	Ant1	2478	-1.24
Test Mode	Antenna	Freq(MHz)	Power [dBm]
11B	Ant1	2412	10.57
	Ant1	2437	13.86
	Ant1	2462	17.87
11G	Ant1	2412	17.08
	Ant1	2437	15.30
	Ant1	2462	14.88
11N20SISO	Ant1	2412	11.55
	Ant1	2437	13.85
	Ant1	2462	14.84
11N40SISO	Ant1	2422	13.92
	Ant1	2437	13.93
	Ant1	2452	12.10



Test Mode	Antenna	Freq (MHz)	Power [dBm]
11A	Ant1	5180	12.04
	Ant1	5200	11.72
	Ant1	5240	11.34
	Ant1	5745	11.81
	Ant1	5785	13.29
	Ant1	5825	12.43
11N20SISO	Ant1	5180	13.77
	Ant1	5200	12.29
	Ant1	5240	10.61
	Ant1	5745	13.24
	Ant1	5785	12.70
	Ant1	5825	12.52
11N40SISO	Ant1	5190	9.71
	Ant1	5230	12.29
	Ant1	5755	10.70
	Ant1	5795	9.81

The Worst Mode	Antenna	MAX output power (dBm)	Target power (dBm)	MAX Target power (dBm)	Antenna gain		Power Density (S) (mW /cm ²)	Limited of Power Density (S) (mW /cm ²)	Test Result	Distance (cm)
					(dBi)	(Linear)				
8-DPSK	Ant1	1.81	1±1	2	2.02	1.59	0.00050	1	Complies	20
BLE GFSK 1Mbps	Ant1	-0.11	0±1	1	2.02	1.59	0.00040	1	Complies	20
11b(2.4G Wi-Fi)	Ant1	17.87	17±1	18	2.02	1.59	0.01999	1	Complies	20
11N20(5G Wi-Fi)	Ant1	13.77	13±1	14	2.70	1.86	0.00931	1	Complies	20

WIFI+BT Total Radio:0.00050+0.01999=0.02049,The result less than 1,So complies.

The End Report