



# FCC TEST REPORT

## FCC ID: 2AW99-K-MULTI6

Product	:	Active Compact Column Pa System
Model Name	:	K-MULTI6
Additional model	:	N/A
Brand	:	KONEX
Report No.	:	PTC20072105602E-FC02
<b>Prepared for</b>		
NINGBO RIXING ELECTRONICS CO.,LTD		
NO.495, SHIDAI ROAD, WUXIANG TOWN, NINGBO,CHINA		
<b>Prepared by</b>		
Precise Testing & Certification Co., Ltd		
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## TEST RESULT CERTIFICATION

Applicant's name : NINGBO RIXING ELECTRONICS CO.,LTD  
Address : NO.495, SHIDAI ROAD, WUXIANG TOWN, NINGBO,CHINA  
Manufacture's name : NINGBO RIXING ELECTRONICS CO.,LTD  
Address : NO.495, SHIDAI ROAD, WUXIANG TOWN, NINGBO,CHINA  
Product name : Active Compact Column Pa System  
Model name : K-MULTI6  
Test procedure : KDB 447498 D01 General RF Exposure Guidance v05  
Test Date : Aug. 11, 2020 to Aug. 28 2020  
Date of Issue : Aug. 28 2020  
Test Result : Pass

This device described above has been tested by PTS, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Test Engineer:

A handwritten signature in black ink that reads "Leo Yang" with a long, sweeping horizontal stroke at the end.

Leo Yang / Engineer

Technical Manager:

A handwritten signature in black ink that appears to read "Chris Du" in a stylized, cursive script.

Chris Du / Manager



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## 2 Test Summary

Test Items	Test Requirement	Result
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	1.1307(b)(1)	PASS
Remark:		
N/A: Not Applicable		



### 3 General Information

#### 3.1 General Description of E.U.T.

Product Name	:	Active Compact Column Pa System
Model Name	:	K-MULTI6
Additional model	:	N/A
Bluetooth Version	:	BT 4.0 BDR+EDR
Operating frequency	:	2402-2480MHz
Numbers of Channel	:	79 channels
Antenna Type	:	PCB Antenna
Antenna Gain	:	-0.58 dBi
Type of Modulation	:	GFSK, $\pi/4$ -DQPSK, 8DPSK For DSS
Power supply	:	Adapter model:N/A Input: AC100-240V 50/60hz
Hardware Version	:	N/A
Software Version	:	N/A



## 4 RF Exposure

Test Requirement : FCC Part 1.1307(b)(1)

Evaluation Method : FCC Part 2.1091

### 4.1 Requirements

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 limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

### 4.2 The procedures / limit

(A) Limits for Occupational / Controlled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	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

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz ; \*Plane-wave equivalent power density



#### 4.3 MPE Calculation Method

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d} \quad \text{Power Density: } P_d \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

E = Electric field (V/m)

P = Peak RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

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

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained

#### 4.4 Test Result

Item	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (mW/cm <sup>2</sup> )	Limit of Power Density (mW/cm <sup>2</sup> )	Result
BT	0.87	-0.466	0.90	0.000156	1	Pass

\*\*\*\*\*THE END REPORT\*\*\*\*\*