Application for FCC Certification
On behalf of

Changzhou SEM machinery Co.,LTD

Product Name: Remote Control

Model No.: WRC200T-XX

FCC ID: 2AM7M741336572G

(MPE Calculation)

Prepared For : Changzhou SEM machinery Co.,LTD
The city of Changzhou City Road No. 2188 Building No. 7.

Prepared By : Audix Technology (Shanghai) Co., Ltd.
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Report No. : ACI-F17272
Date of Test : Jul. 10, 2017
Date of Report : Aug. 17, 2017

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TEST REPORT FOR FCC CERTIFICATE

Applicant	:	Changzhou SEM machinery Co.,LTD
Manufacturer	:	Changzhou SEM machinery Co.,LTD
EUT Description	:	Remote Control
		(A) Model No. : WRC200T-XX
		(B) Power Supply : DC 3V (AAA Battery*2)

Test Procedure Used:

FCC OET Bulletin 65 August 1997

The device described above is tested by Audix Technology (Shanghai) Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC OET Bulletin 65.

The test results are contained in this test report and Audix Technology (Shanghai) Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. This report also shows that the EUT (M/N: Refer to Sec2.1), which was tested on Aug. 17, 2017 is technically compliance with the FCC limits.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Audix Technology (Shanghai) Co., Ltd.

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Date of Test : Jul. 10, 2017 Date of Report : Aug. 17, 2017

Producer : Hui Min Yan
HUI MIN YAN / Assistant

Review : Byron Wu
BYRON WU / Deputy Assistant Manager

AUDIX® For and on behalf of
Audix Technology (Shanghai) Co., Ltd.

Signatory :
Authorized Signature EMC BYRON KWO / Assistant General Manager

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test

Description	:	Remote Control
Type of EUT		☑ Production ☐ Pre-product ☐ Pro-type
Model No.	:	WRC200T-XX
Test Model.	:	WRC200T-01
Note.	:	"XX" maybe any appearance shape and s/n different
Modulation	:	GFSK 500Kbps
Operation Frequency:		2400 MHz
Frequency Channel:		Total 1 Channel
Tested Frequency:		2400 MHz
Antenna Type:		Internal permanently attached antenna
Applicant	:	Changzhou SEM machinery Co.,LTD The city of Changzhou City Road No. 2188 Building No. 7
Manufacturer	:	Changzhou SEM machinery Co.,LTD The city of Changzhou City Road No. 2188 Building No. 7

1.2 Description of Test Facility

Site Description (Semi-Anechoic Chamber)	: Sept. 17, 1998 file on Jan. 15, 2017 Renewed Federal Communications Commission FCC Engineering Laboratory 7435 Oakland Mills Road Columbia, MD 21046, USA
Name of Firm	: Audix Technology (Shanghai) Co., Ltd.
Site Location	: 3F 34 Bldg 680 Guiping Rd., Caohejing Hi-Tech Park, Shanghai 200233, China
FCC registration Number	: 91789
Accredited by NVLAP, Lab Code	: 200371-0

2 SUMMARY OF STANDARDS AND RESULTS

2.1 Applicable Standard

FCC OET Bulletin 65:1997

2.2 Specification Limits

Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm^2)	Averaging Time $\|E\|^2$, $\|H\|^2$ or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f2)*	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	f/150	30
1500-100,000	--	--	1.0	30

f = frequency in MHz *Plane-wave equivalent power density

NOTE: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.

The limit value 1.0mW/cm^2 is available for this EUT.

2.3 MPE Calculation Method

$S = E^2/(120\pi)$

where: S = power density (in appropriate units, e.g. W/ m^2)
E= emission level at separation distance R (in appropriate units, e.g., V/m)

$R = [PG/(4\pi S)]^{0.5} = (E*d)/(120\pi S)^{0.5}$

where: S = power density (in appropriate units, e.g. W/ m^2)
E= emission level at separation distance d (in appropriate units, e.g., V/m)
R = distance to the center of radiation of the antenna (appropriate units, e.g., m)

2.4 Calculated Result

2.4.1 Radio Frequency Radiation Exposure Evaluation

Frequency	Emission Level @3m		Emission Level @20cm	Power Density		Limit
(MHz)	(dBuV/m)	(V/m)	(V/m)	(W/m^2)	(mW/cm^2)	(mW/cm^2)
2400	90.64	0.034	0.51	0.000690	**0.0000690**	1.0

Separation distance R= 20cm.

Frequency	Emission Level @3m		Limit		Distance	
(MHz)	(dBuV/m)	(V/m)	(mW/cm^2)	(W/m^2)	(m)	(cm)
2400	90.64	0.034	1.0	10	0.0001598	0.01598

The antenna used for this transmitter must be installed to provide a separation distance of at least 0.01598 cm from all persons.