



FCC RF EXPOSURE REPORT

For

Conbox

MODEL NUMBER: SR-700

FCC ID: 2ATCV-SR700
IC: 25038-SR700

REPORT NUMBER: 4788821505-2

ISSUE DATE: May 12, 2019

Prepared for

Shanghai Gaussian Automation Technology Development Co.,LTD

Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	05/12/2019	Initial Issue	

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Shanghai Gaussian Automation Technology Development Co.,LTD
Address: No.899 Dangui Rd., Pudong District Shanghai, 201203,China

Manufacturer Information

Company Name: Shanghai Gaussian Automation Technology Development Co.,LTD
Address: No.899 Dangui Rd., Pudong District Shanghai, 201203,China

Factory Information

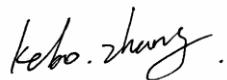
Company Name: Suzhou Gaozhixian Automation Technology Co., Ltd
Address: Workshop No.2, No.1 Jifu Road, Korea Industrial Park, Fenghuang
Town, Zhangjiagang City, Jiangsu Province, China

EUT Description

EUT Name: Conbox
Model: SR-700
Sample Status: Good
Sample Received Date: February 26, 2019
Date of Tested: February 26~ May 10, 2019

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC 47CFR§2.1091	Complies
KDB-447498 D01 V06	

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 447498 D01 General RF Exposure Guidance v06.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	<p>A2LA (Certificate No.: 4102.01) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA.</p> <p>FCC (FCC Designation No.: CN1187) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules</p> <p>IC(Company No.: 21320) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with Industry Canada. The Company Number is 21320.</p> <p>VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793.</p> <p>Facility Name: Chamber D, the VCCI registration No. is G-20019 and R-20004 Shielding Room B , the VCCI registration No. is C-20012 and T-20011</p>
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Note 1: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China

Note 2: The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3: For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30MHz had been correlated to measurements performed on an OFS.

4. REQUIREMENT

LIMIT

Limits for General Population/Uncontrolled Exposure

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/f ²)*	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	f/150	30
1500-100,000	--	--	1.0	30

Note 1: f = frequency in MHz, * means Plane-wave equivalent power density

Note 2: 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 cannot exercise control over their exposure.

Note 3: The limit value 1.0mW/cm² is available for this EUT.

MPE CALCULATION METHOD

$$S = PG/(4\pi R^2)$$

where: S = power density (in appropriate units, e.g. mW/ cm²)

P = power input to the antenna (in appropriate units, e.g., mW)

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

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

CALCULATED RESULTS

Radio Frequency Radiation Exposure Evaluation

WIFI2.4G (Worst case_Ant1+Ant2)					
Operating Mode	Max. Tune up Power	Directional gain		Power density	Limit
	(dBm)	(dBi)	(num)	(mW/ cm ²)	
802.11 b	16.0	6.01	2	0.0316	1

Note: Directional gain= $10\log[(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}] = 6.01\text{dBi}$

N_{ANT} : the number of Antenna

$G1=3.0\text{dBi}$; $G2=3.0\text{dBi}$

Note:

1. the calculated distance is 20cm.
2. For this product, it has two antennas, antenna1 and antenna2, it can transmit at the same time during work at 802.11B & 802.11G & 802.11N20 & 802.11N40 modes, but only the 802.11N20 & 802.11N40 modes support the MIMO technical.

END OF REPORT