RF EXPOSURE REPORT

FCC Applicant:	Universal Electronics Inc. 15147 North Scottsdale Road, Suite 300, Scottsdale Arizona 85254 USA
Manufacturer:	Universal Electronics Inc. 15147 North Scottsdale Road, Suite 300, Scottsdale Arizona 85254 USA
Factory 1:	Gemstar Technology (Yangzhou) Co., Ltd No. 9 Junsheng Road Fanshui Industrial Zone Baoying County Yangzhou Jiangsu 225819 China
Factory 2:	UE Vietnam Company Limited Slot A4, An Phat Complex High-Tech Industrial Park, KM47, Viet Hoa Ward, Hai Duong City, Vietnam
Product Name:	Voice Remote Control
Brand Name:	Sony
Model No.:	RMF-TX920U
Model Difference:	N/A
Report Number:	TESA2309000517ES
FCC ID	MG3-TX920U
Issue Date:	Oct. 06, 2023

Approved By John Yeh
John Yeh

We hereby certify that:

The above equipment was evaluated by SGS Taiwan Ltd. The evaluation in this report is in compliance with FCC KDB 447498 D01v06.

The results of this report relate only to the sample identified in this report.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TESA2309000517ES	00	Original	Oct. 06, 2023	Cindy Chou	

Note:

1、The remark "*" indicates modification of the report upon requests from certification body.

2、Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received. And are assessed as electrically identical in RF characteristics, therefore, no further assessment required for the variant(s).

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1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

1.1 Product Description

Product Name:	Voice Remote Control
Brand Name:	Sony
Model No.:	RMF-TX920U
Model Difference:	N/A

1.2 Antenna Information:

Antenna Type	Freq. (MHz)	Peak Antenna Gain (dBi)
PCB Trace	2.4GHz	**1.82**

The antenna information is provided by the applicant.

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2 RF EXPOSURE EVALUATION FOR PORTABLE CONDITIONS

2.1 FCC Standard Applicable:

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

2.1.1 As per KDB 447498 D01 4.3.1,

Step a: For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g Head & Body SAR and ≤ 7.5 for 10-g extremity Hand SAR, where

- *f(GHz) is the RF channel transmit frequency in GHz*
- *Power and distance are rounded to the nearest mW and mm before calculation*
- *The result is rounded to one decimal place for comparison*
- *The values 3.0 and 7.5 are referred to as numeric thresholds in **step b)** below*

Step b: For 100 MHz to 6 GHz and test separation distances > 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following (also illustrated in Appendix B):

1) {[Power allowed at numeric threshold for 50 mm in step a)] + [(test separation distance – 50 mm)·(f(MHz)/150)]} mW, for 100 MHz to 1500 MHz

2) {[Power allowed at numeric threshold for 50 mm in step a)] + [(test separation distance – 50 mm)·10]} mW, for > 1500 MHz and ≤ 6 GHz

Step c: For frequencies below 100 MHz, the following may be considered for SAR test exclusion (also illustrated in Appendix C):

1) For test separation distances > 50 mm and < 200 mm, the power threshold at the corresponding test separation distance at 100 MHz in step b) is multiplied by [1 + log(100/f(MHz))]

2) For test separation distances ≤ 50 mm, the power threshold determined by the equation in c) 1) for 50 mm and 100 MHz is multiplied by ½

3) SAR measurement procedures are not established below 100 MHz

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2.2 Measurement Result:

Step a:

This is a portable device and the max. output power including tune-up tolerance is 6.31 (mW), lower than the threshold given and derived as formula given above, where

=6.31(mW)/5(mm)*√2.48(GHz) = 1.987 <7.5

Frequency (MHz)	Max. output power including tune-up tolerance(dBm)	Max. output power including tune-up tolerance(mW)	Distance (mm)	Result	≤ 7.5 for 10-g extremity SAR
2480	8	6.31	5	1.987	TRUE

As the result of calculation result indicates, the RF exposure generating from given transmitter (transmitter employed digital modulation) can be excluded from SAR measurement, and is deemed compliant with RF exposure as per FCC.

~ End of Report ~

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