



Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

TEST REPORT

EN 50663:2017

EN62479:2010

Report Reference No......: **CTA24082301103**

Compiled by

(position+printed name+signature)...: File administrators Jinghua Xiao

Supervised by

(position+printed name+signature)...: Project Engineer Xudong Zhang

Approved by

(position+printed name+signature)...: RF Manager Eric Wang

Jinghua Xiao
Xudong Zhang
approved
Eric Wang

Date of issue.....: Aug. 30, 2024

Testing Laboratory Name: **Shenzhen CTA Testing Technology Co., Ltd.**

Address.....: Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name.....: **Η εταιρεία Κ. ΜΙΧΟΣ και ΣΙΑ Ο.Ε.**

Address.....: Chalandriou Str. 5, Ag. Paraskevi Athens 15343, Greece

Test specification :

Standard.....: **EN 50663:2017**
EN62479:2010

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Test item description: **UHF wireless microphone**

Trade Mark: GILBORD

Manufacturer: Η εταιρεία Κ. ΜΙΧΟΣ και ΣΙΑ Ο.Ε.

Model/Type reference.....: WRL848+WRLM-18

List Model: WRL838TDV+WRLM-10, WRL858+WRLM-11, WRL718+WRLM-12, WRL728+WRLM-13, WRL738+WRLM-14, WRL868instr+WRLM-15, WRL750+WRLM-16, REC850+LA-12 TROLLEY MIC, WRL838+WRLM-17

Modulation: FM

Operation Frequency.....: 660.3-690.0MHz

Hardware version: V1.0

Software version.....: V1.0

Ratings.....: TX: DC 3.0V From battery

RX: DC 12.0V From external circuit

Result.....: **PASS**

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Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

Tel:+86-755 2322 5875 E-mail:cta@cta-test.cn Web:http://www.cta-test.cn

TEST REPORT

Equipment under Test : UHF wireless microphone

Model /Type : WRL848+WRLM-18

Listed Models : WRL838TDV+WRLM-10, WRL858+WRLM-11,
WRL718+WRLM-12, WRL728+WRLM-13, WRL738+WRLM-14,
WRL868instr+WRLM-15, WRL750+WRLM-16,
REC850+LA-12 TROLLEY MIC, WRL838+WRLM-17

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Test Result:**PASS**

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. GENERAL INFORMATION

1.1. General Remarks

| | | |
|--------------------------------|---|---------------|
| Date of receipt of test sample | : | Aug. 24, 2024 |
| Testing commenced on | : | Aug. 24, 2024 |
| Testing concluded on | : | Aug. 30, 2024 |

1.2. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

| | |
|---------------------|------------|
| Normal Temperature: | 25°C -35°C |
| Relative Humidity: | 35%-55 % |
| Air Pressure: | 101 KPa |

1.3. Product Description

| | |
|----------------------------|--|
| Product Name: | UHF wireless microphone |
| Model/Type reference: | WRL848+WRLM-18 |
| Power supply: | TX: DC 3.0V From battery RX: DC 12.0V From external circuit |
| Adapter information: | Model: TY-801A Input: AC 100-240V 50/60Hz 0.25A Output: DC 12V 1A |
| Wireless microphone | |
| Operation frequency: | 660.3-690.0MHz |
| Modulation Type: | FM |
| Hardware Version: | V1.0 |
| Software Version: | V1.0 |
| Antenna | TX: Internal antenna, 0.8dBi (Max) RX: External antenna, 2.0dBi (Max) |

2. METHOD OF MEASUREMENT

Applicable Standard

EN50663: Generic standard for assessment of low power electronic and electrical equipment related to human exposure restrictions for electromagnetic fields(10MHz-300GHz)

EN62479: Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure restrictions for to electromagnetic fields (10 MHz to 300 GHz)

Limit

20mW (According to the table A.1)

Table A.1 – Example values of SAR-based P_{max} for some cases described by ICNIRP, IEEE Std C95.1-1999 and IEEE Std C95.1-2005

| Guideline / Standard | SAR limit, SAR_{max} W/kg | Averaging mass, m g | P_{max} mW | Exposure tier ^a | Region of body ^a |
|-------------------------|--------------------------------|--------------------------|-----------------|----------------------------|------------------------------------|
| ICNIRP [1] | 2 | 10 | 20 | General public | Head and trunk |
| | 4 | 10 | 40 | General public | Limbs |
| | 10 | 10 | 100 | Occupational | Head and trunk |
| | 20 | 10 | 200 | Occupational | Limbs |
| IEEE Std C95.1-1999 [2] | 1,6 | 1 | 1,6 | Uncontrolled environment | Head, trunk, arms, legs |
| | 4 | 10 | 40 | Uncontrolled environment | Hands, wrists, feet and ankles |
| | 8 | 1 | 8 | Controlled environment | Head, trunk, arms, legs |
| | 20 | 10 | 200 | Controlled environment | Hands, wrists, feet and ankles |
| IEEE Std C95.1-2005 [3] | 2 | 10 | 20 | Action level | Body except extremities and pinnae |
| | 4 | 10 | 40 | Action level | Extremities and pinnae |
| | 10 | 10 | 100 | Controlled environment | Body except extremities and pinnae |
| | 20 | 10 | 200 | Controlled environment | Extremities and pinnae |

^a Consult the appropriate standard for more information and definitions of terms.

Manufacturing Tolerance

| Channel | 660.30MHz | 675.00MHz | 690.00MHz |
|----------------------|-----------|-----------|-----------|
| Target (dBm) | 9.0 | 9.0 | 9.0 |
| Tolerance \pm (dB) | 1.0 | 1.0 | 1.0 |

Test result

| Modulation Type | Maximum EIRP including tune up (dBm) | Output power (mW) | Limit (mW) | Results |
|-----------------|--------------------------------------|-------------------|------------|---------|
| DQPSK | 10.0 | 10 | 20 | Pass |

3. External and Internal Photos of the EUT

Reference to the test report No. CTA24082301102

.....End of Report.....

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