

RF Exposure Report

Report No.: MFBCOR-WTW-P24100231

FCC ID: NRIWS270000

Test Model: LDT-700SW

Series Model: LD(X) -70(Y)S(Z), X can be S or T, Y can be 0 ~ 9, Z can be A~Z (denotes housing color)

Received Date: 2024/10/15

Date of Evaluation: 2026/1/8

Issued Date: 2026/2/2

Applicant: IR-TEC International Ltd.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lin Kou Laboratories

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Test Location: No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City
33383, TAIWAN

**FCC Registration /
Designation Number:** 788550 / TW0003



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Release Control Record

Issue No.	Description	Date Issued
MFBCOR-WTW-P24100231	Original Release	2026/2/2

1 Certificate of Conformity

Product: Line Voltage Dual-Tech Wall Switch Sensor

Brand: 

Test Model: LDT-700SW

Series Model: LD(X) -70(Y)S(Z), X can be S or T, Y can be 0 ~ 9, Z can be A~Z (denotes housing color)

Sample Status: Engineering Sample

Applicant: IR-TEC International Ltd.

Date of Evaluation: 2026/1/8

FCC Rule Part: FCC Part 2 (Section 2.1091)

Standards: KDB 447498 D01 General RF Exposure Guidance v06

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by :  , **Date:** 2026/2/2
Vera Huang / Specialist

Approved by :  , **Date:** 2026/2/2
Jeremy Lin / Project Engineer

2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

2.2 MPE Calculation Formula

$$P_d = (P_{out} * G) / (4 * \pi * r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

r = distance between observation point and center of the radiator in cm

2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

3 Calculation Result

Evaluation Frequency (GHz)	Max EIRP Power (dBm)	Max EIRP Power (mW)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Result
10.51138	-15.56	0.0278	20	0.00000553	1.0	Pass

Note:

- Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
- Calculate the EIRP from the radiated field strength:
 - $EIRP (dBm) = Radiated\ field\ strength\ (dBuV/m) + 20 * Log(d) - 104.7$
 - d is the measurement distance, in m
 - $EIRP = 79.6 + 20 * Log(3) - 104.7 = -15.56\ dBm$

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