

RF Exposure Report

Report No.: SA180515D12

FCC ID: NRIRS420900

Test Model: ON-LRD-209S

Received Date: Sep. 7, 2018

Test Date: Sep. 17 ~ Oct. 5, 2018

Issued Date: Oct. 8, 2018

Applicant: IR-TEC International Ltd.

Address: 6 Rong An Road, Luzhu Taoyuan 33852, TAIWAN

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

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**FCC Registration /
Designation Number:** 198487 / TW2021



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Release Control Record

Issue No.	Description	Date Issued
SA180515D12	Original release.	Oct. 8, 2018

1 Certificate of Conformity

Product: Line Voltage OS-NET Sensor

Brand: IR-TEC

Test Model: ON-LRD-209S

Sample Status: Engineering sample

Applicant: IR-TEC International Ltd.

Test Date: Sep. 17 ~ Oct. 5, 2018

Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1-1992

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 : Annie Chang, **Date:** Oct. 8, 2018
Annie Chang / Senior Specialist

Approved by : Rex Lai, **Date:** Oct. 8, 2018
Rex Lai / Associate Technical Manager

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**.

2.4 Calculation Result Of Maximum Conducted Power

Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
2405-2480	6.23	4.2	20	0.0022	1

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