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
Lab Address:	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan, R.O.C.
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

$Pd = (Pout*G) / (4*pi*r^2)$

where

Pd = power density in mW/cm^2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 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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