	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
	TAF Tac-MRA Testing Laborator 2021
ly with our prior written permission. Th	copying or replication of this report to or for any other person or entity, or use of our name or trademark, is perminis report sets forth our findings solely with respect to the test samples identified herein. The results set forth in e of the quality or characteristics of the lot from which a test sample was taken or any similar or identical pro- Our report includes all of the tests requested by you and the results thereof based upon the information that

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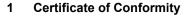
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# **Release Control Record**

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



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		
Rex. Jai	, Date:	Oct. 8, 2018
x Lai / Associate Technical Manager		

Approved by :

Rex Lai / Associate Technical Manager



# 2 RF Exposure

#### 2.1 Limits For Maximum Permissible Exposure (MPE)

Frequency Range (MHz)			Power Density (mW/cm <sup>2</sup> )	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<sup>2</sup>

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 Banc	d Max Power	Antenna Gain	Distance	Power Density	Limit
(MHz)	(dBm)	(dBi)	(cm)	(mW/cm <sup>2</sup> )	(mW/cm²)
2405-2480	6.23	4.2	20	0.0022	1

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