

## RF Exposure Report

**Report No.:** SA161028C01

**FCC ID:** VPQ-PIXIUMDHXA222

**Test Model:** DHXA-222

**Received Date:** Nov. 11, 2016

**Test Date:** Feb. 02 ~ Feb. 23, 2017

**Issued Date:** Mar. 07, 2017

**Applicant:** TRIXELL

**Address:** 460, rue du Pommarin 38430 Moirans, France

**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.

**Test Location:** No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, TAIWAN (R.O.C.)



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## Table of Contents

|   |          |
|---|----------|
| <b>Release Control Record.....</b>                              | <b>3</b> |
| <b>1     Certificate of Conformity.....</b>                     | <b>4</b> |
| <b>2     RF Exposure.....</b>                                   | <b>5</b> |
| 2.1   Limits for Maximum Permissible Exposure (MPE).....        | 5        |
| 2.2   MPE Calculation Formula .....                             | 5        |
| <b>3     Calculation Result of Maximum Conducted Power.....</b> | <b>5</b> |

### Release Control Record

| Issue No.   | Description       | Date Issued   |
|-------------|-------------------|---------------|
| SA161028C01 | Original release. | Mar. 07, 2017 |

## 1 Certificate of Conformity

**Product:** pixium 3543 DR

**Brand:** TRIXELL

**Test Model:** DHXA-222

**Sample Status:** Engineering sample

**Applicant:** TRIXELL

**Test Date:** Feb. 02 ~ Feb. 23, 2017

**Standards:** FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1

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 EMC characteristics under the conditions specified in this report.

**Prepared by :** Sunt Lee , **Date:** Mar. 07, 2017  
Sunt Lee / Specialist

**Approved by :** Ken Liu , **Date:** Mar. 07, 2017  
Ken Liu / Senior 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 <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

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

where

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = 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

## 3 Calculation Result of Maximum Conducted Power

| Frequency Band (MHz) | Max Power (dBm) | Antenna Gain (dBi) | Distance (cm) | Power Density (mW/cm <sup>2</sup> ) | Limit (mW/cm <sup>2</sup> ) |
|----------------------|-----------------|--------------------|---------------|-------------------------------------|-----------------------------|
| WLAN 2412~2462       | 20.21           | 2.24               | 20            | 0.035                               | 1                           |
| WLAN 5180~5240       | 17.78           | 4.84               | 20            | 0.036                               | 1                           |
| WLAN 5260~5320       | 18.21           | 4.84               | 20            | 0.040                               | 1                           |
| WLAN 5500~5700       | 18.26           | 4.84               | 20            | 0.041                               | 1                           |
| WLAN 5745~5825       | 17.42           | 4.84               | 20            | 0.033                               | 1                           |

Note:

2.4GHz: Directional gain = -0.77dBi + 10log(2) = 2.24dBi

5GHz: Directional gain = 1.83dBi + 10log(2) = 4.84dBi

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