

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

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

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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 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

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

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

3 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)
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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