

# RF EXPOSURE REPORT

**REPORT NO.:** SA140715C03A

**MODEL NO.:** PX\* (\* can be 0~9, A~Z or Blank)

**FCC ID:** HFS-PXC

**RECEIVED:** Jul. 21, 2014

**TESTED:** Aug. 14 ~ Aug. 21, 2014

**ISSUED:** Aug. 29, 2014

**APPLICANT:** Quanta Computer Inc

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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.	REASON FOR CHANGE	DATE ISSUED
SA140715C03A	Original release.	Aug. 29, 2014

## 1. CERTIFICATION

**PRODUCT:** Quanta Video Presence Solution  
**MODEL:** PX\* (\* can be 0~9, A~Z or Blank)  
**BRAND:** Quanta  
**APPLICANT:** Quanta Computer Inc  
**TESTED:** Aug. 14 ~ Aug. 21, 2014  
**TEST SAMPLE:** ENGINEERING SAMPLE  
**STANDARDS:** **FCC Part 2 (Section 2.1091)**  
**KDB 447498 D03**  
IEEE C95.1

The above equipment (Model: PXC) 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.

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Celine Chou / Specialist

**APPROVED BY :** Ken Liu , **DATE :** Aug. 29, 2014  
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

### 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 <sup>2</sup> )	LIMIT (mW/cm <sup>2</sup> )
5180-5240	8.10	3.12	20	0.003	1
5736-5814	6.61	5.22	20	0.003	1

FREQUENCY BAND (MHz)	MAX POWER (dBuV/m)	MAX POWER (dBm)	DISTANCE (cm)	POWER DENSITY (mW/cm <sup>2</sup> )	LIMIT (mW/cm <sup>2</sup> )
6336-7920	72.59	-32.17	20	0.0000001	1

\* Max. Power of UWB Band was provided by client.

### CONCLUSION:

The WLAN 5G & UWB Band can transmit simultaneously, the formula of calculated the MPE is:

$CPD1 / LPD1 + CPD2 / LPD2 + \dots \text{etc.} < 1$

CPD = Calculation power density

LPD = Limit of power density

$WLAN\ 5.0G + UWB = 0.003 + 0.0000001 = 0.0030001$

Therefore, the maximum calculation of this situation is 0.0030001, which is less than the "1" limit.