

### RF EXPOSURE REPORT

REPORT NO.: SA140704E05A

**MODEL NO.:** xCE-25-M

FCC ID: MQT-E25M

RECEIVED: July 04, 2014

**TESTED:** July 29, 2014

**ISSUED:** Aug. 22, 2014

**APPLICANT:** XAC AUTOMATION CORP.

ADDRESS: 4F, No. 30, INDUSTRY E. RD. IX,

SCIENCE-BASED INDUSTRIAL

PARK, HSINCHU, TAIWAN

**ISSUED BY:** Bureau Veritas Consumer Products Services

(H.K.) Ltd., Taoyuan Branch Hsin Chu

Laboratory

LAB ADDRESS: No. 81-1, Lu Liao Keng, 9th Ling, Wu Lung

Tsuen, Chiung Lin Hsiang, Hsin Chu Hsien 307,

Taiwan, R.O.C.

TEST LOCATION (1): No. 81-1, Lu Liao Keng, 9th Ling, Wu Lung

Tsuen, Chiung Lin Hsiang, Hsin Chu Hsien 307,

Taiwan, R.O.C.

**TEST LOCATION (2):** No. 49, Ln. 206, Wende Rd., Shangshan Tsuen,

Chiung Lin Hsiang, Hsin Chu Hsien 307, Taiwan,

R.O.C.

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## **RELEASE CONTROL RECORD**

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED	
SA140704E05A	Original release	Aug. 22, 2014	

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### 1. CERTIFICATION

PRODUCT: **PINPAD** 

**BRAND NAME:** XAC

> **MODEL NO.:** xCE-25-M

TEST SAMPLE: **ENGINEERING SAMPLE** 

APPLICANT: XAC AUTOMATION CORP.

TESTED: July 29, 2014

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

KDB 447498 D03

**IEEE C95.1** 

The above equipment (Model: xCE-25-M) 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: \_\_\_\_\_, DATE: \_Aug. 22, 2014 (Lori Chung, Specialist)

, **DATE**: Aug. 22, 2014 APPROVED BY

( May Chen, Manager )



### 2. EVALUATION RESULT

#### 2.1 SAR TEST EXCLUSION THRESHOLDS

### Following FCC KDB 447498 D03 "General SAR test exclusion guidance"

The corresponding SAR Exclusion Threshold condition, listed below:

- 1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:
  - [(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]  $\cdot [\sqrt{f(GHz)}] \le 3.0$  for 1-g SAR and  $\le 7.5$  for 10-g extremity SAR where
  - f(GHz) is the RF channel transmit frequency in GHz
  - Power and distance are rounded to the nearest mW and mm before calculation
  - The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

- 2) At 100 MHz to 6 GHz and for test separation distances > 50 mm, the SAR test exclusion threshold is determined according to the following:
  - a) [Threshold at 50 mm in step 1) + (test separation distance 50 mm)·( f(MHz)/150)] mW, at 100MHz to 1500 MHz
  - b) [Threshold at 50 mm in step 1) + (test separation distance 50 mm)·10] mW at > 1500 MHz and ≤ 6 GHz
- 3) At frequencies below 100 MHz, the following may be considered for SAR test exclusion.
  - a) The threshold at the corresponding test separation distance at 100 MHz in step 2) is multiplied by [1 + log(100/f(MHz))] for test separation distances > 50 mm and < 200 mm.
  - b) The threshold determined by the equation in a) for 50 mm and 100 MHz is multiplied by  $\frac{1}{2}$  for test separation distances  $\leq$  50 mm.
  - c) SAR measurement procedures are not established below 100 MHz. When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for any test results to be acceptable.

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### Maximum measured transmitter power:

Frequency (GHz)	Max. Power (mW)	Min. test separation distance (mm)	SAR test exclusion calculation value <sup>(NOTE 2)</sup>	10-g extremity SAR test exclusion thresholds	Result
2.402 ~ 2.480	1.531	5	0.482	7.5	Pass

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**NOTE:** 1. The antenna type is Chip printed antenna with 1.5dBi gain.

2. Calculate SAR test exclusion thresholds from condition "1" formulas.

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