



SPORTON International Inc.

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.
Ph: 886-3-327-3456 / FAX: 886-3-327-0973 / www.sporton.com.tw

Project No: CB10502124

RF Exposure Evaluation Report

Applicant's company	Technicolor Connected Home USA LLC
Applicant Address	101 West 103rd Street, Indianapolis, IN 46290
FCC ID	G95TKA105
Manufacturer's company	Technicolor Connected Home USA LLC
Manufacturer Address	101 West 103rd Street, Indianapolis, IN 46290
Factory	Nanning Fugui Precision Industrial Co., Ltd
Factory's Address	B Workshop, NO.51, Tongle Road, Foxconn Nanning Industrial Park, Nanning, Guangxi, China

Product Name	KeyPad
Brand Name	Technicolor
Model Name	TKA105
Ref. Standard(s)	47 CFR FCC Part 2 Subpart J, section 2.1093
Received Date	Feb. 03, 2016
Final Test Date	Mar. 17, 2016
Submission Type	Original Equipment

Sam Chen

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Table of Contents

1. GENERAL DESCRIPTION.....	1
1.1. EUT General Information	1
1.2. Testing Location.....	1
2. RF EXPOSURE EVALUATION	2
2.1. Applicable Standard	2
2.2. SAR evaluation.....	2

History of This Test Report

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA620502	Rev. 01	Initial issue of report	Mar. 30, 2016

1. GENERAL DESCRIPTION

1.1. EUT General Information

RF General Information			
Evaluation Mode	Frequency Range (MHz)	Operating Frequency (MHz)	Modulation Type
Zigbee	2400-2483.5	2405-2480	DSSS (QPSK)

1.2. Testing Location

Testing Location		
☐	HWA YA	ADD : No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL : 886-3-327-3456 FAX : 886-3-327-0973
☒	JHUBEI	ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C. TEL : 886-3-656-9065 FAX : 886-3-656-9085

2. RF EXPOSURE EVALUATION

2.1. Applicable Standard

In accordance with FCC 47 CFR part 2 (2.1093) this device has been defined as a portable device which is defined as a transmitting device designed to be used so that the radiating structure(s) of the device is/are within 20 centimeters of the body of the user.

Portable devices must be evaluated using the specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2003.

2.2. SAR evaluation

- Per FCC KDB 447498 D01 v06r02, 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:

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot$$

$$[\sqrt{f_{\text{(GHz)}}}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR}$$

- $f_{\text{(GHz)}}$ 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

Maximum Conducted Output Power	Tune-up Average Power		Test Distance (mm)	Frequency (GHz)	Exclusion Thresholds
(dBm)	(dBm)	(mW)			
7.23	7.50	5.6	5	2.445	1.76

- Per FCC KDB 447498 D01 v06r02 exclusion thresholds is $1.76 < 3$, RF exposure evaluation is not required.