### FCC COMPLIANCE TEST REPORT

ON

X-10 Wireless Video Transmitter Model: VT30A FCC ID: B4SVT30A

Customer Name: X-10 (USA), Inc.

Customer P.O.: Verbal Authorization

Test Method: ANSI C63.4:1992

Test Specification: FCC Rules and Regulations Part 15

Date of Report: January 11, 1999

Test Engineer: T.J. Schneider

Report Written By: R. Stremel

Supervisor: R.J. Reitz

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Installation and Operating Instructions

Para. 2.1033(b)(3)

Technical Description

Para. 2.1033(b)(4)

# Technical Report 2.1033(b)(4)

# **Equipment Manufacturer**

X-10 Electronics Shenzhen Co. Ltd. X-10 Building Labour Industrial District Shenzhen, Xixiang, Bao An Guang Dong, China, 518102

FCC Identifier

B4SVT30A

**Operating Instructions** 

See Exhibit 1

Trade Name

X-10 PowerHouse

Model Number

VT30A

Additional Model Numbers and Trade Names

Not Applicable

Block Diagram and Schematic

Para. 2.1033(b)(5)

Report of Measurements

Para. 2.1033(b)(6)

# APPLICANT X-10 USA, Inc. 91 Ruckman Road Closter, NJ 07624 X-10 Electronics Shenzhen Co. Ltd. X-10 Building Labour Industrial District Shenzhen, Xixiang, Bao An Guang Dong, China, 518102

TEST SPECIFICATION: FCC Rules and Regulations Part 15, Subpart C

TEST PROCEDURE: ANSI C63.4:1992

### TEST SAMPLE DESCRIPTION

BRANDNAME: X-10 PowerHouse

MODEL: VT30A FCC ID: B4SVT30A

TYPE: Wireless Video Transmitter

FREQUENCY RANGE: 2400MHz to 2483.5MHz

POWER REQUIREMENTS: 12 VDC

### **TESTS PERFORMED**

- 15.249(a) Radiated Emissions, Fundamental and Harmonics

- 15.249(c)/15.209 Out-of-Band Radiated Emissions

- 15.294(c) Occupied Bandwidth

- 15.207(a) Conducted Emissions

I HEREBY CERTIFY THAT: The measurements shown here were made in accordance with the procedures indicated and that the energy emitted by this equipment was found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements and vouch for the qualifications of all persons taking them.

I FURTHER CERTIFY THAT: On the basis of the measurements made, the device tested is capable of operation in compliance with the requirements of **PART 15**, **SUBPART C** under normal use and maintenance.

<u>SIGNATURE</u>	PRINTED	TITLE
	Thomas J. Schneider	EMC Test Engineer

### REPORT OF MEASUREMENTS

Applicant: X-10 (USA), Inc.

Device: 2400 to 2483.5MHz Wireless Video Transmitter

FCC ID: B4SVT30A

Power Requirements: 12 VDC

Applicable Rule Section: Part 15, Subpart C, Section 15.249

### **TEST RESULTS**

15.203: The intentional radiator is designed to ensure that no antenna other than that furnished by the applicant can be used with the device.

15.207(a): The radio frequency voltage that was conducted back on to the AC power line on any frequency/frequencies within the bandwidth of 450kHz to 30MHz did not exceed 250

microvolts.

15.249(a): The unit operates in the 2400-2483.5MHz band. The field strength of the

fundamental did not exceed 50mV/M AVERAGE. The field strength of the

harmonics did not exceed 500µV/M AVERAGE.

15.249(b): Field strength readings were taken at three meters unless otherwise noted.

15.249(c): Emissions radiated outside the specified frequency band were attenuated in

accordance with the general radiated emissions limits of 15.209.

15.249(d): The peak field strength of any emission did not exceed the maximum permitted

average field strength by more than 20dB under any condition of modulation.

### **GENERAL NOTES**

- 1. The AC input was varied from 85 to 115% of the rated input. Field strength measurements were taken with the AC input adjusted to produce the maximum emissions.
- 2. All user accessible controls were adjusted to produce maximum emissions.

### **REPORT OF MEASUREMENTS (continued)**

### GENERAL NOTES (continued)

- 3. The device has provisions for video in and audio in from an external VCR or television, and an IR extender.
- 4. Measurements of conducted emissions were performed utilizing a 50 ohm/50μhenry Line Impedance Stabilization Network (LISN).
- 5. The unit operates in the band of 2400.0MHz to 2483.5MHz. The unit operates at four (4) discrete frequencies, 2410.0MHz, 2433.0MHz, 2452.0MHz, and 2472.0MHz. Since the unit tunes over a range greater than 10MHz, three frequencies were chosen for testing, in accordance with Section 15.31(m). The unit was tested at 2410.0MHz, 2433.0MHz, 2472.0MHz.
- 6. The frequency range was scanned from 30MHz to 24.72GHz. All emissions not reported were more than 20dB below the specified limit.

Radiated Emissions, Fundamental & Harmonics

Para. 15.249(a)

**Out-of-Band Radiated Emissions** 

Para. 15.249(c)/15.209

Occupied Bandwidth

Para. 15.249(c)

**Conducted Emissions** 

Para. 15.207(a)

Equipment Photographs and Label

Para. 2.1033(b)(7)

# EQUIPMENT LABEL