

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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REPORT No. R-7684-2

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EXHIBIT 1

Installation and Operating Instructions

Para. 2.1033(b)(3)

EXHIBIT 2

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

EXHIBIT 3

Block Diagram and Schematic

Para. 2.1033(b)(5)

EXHIBIT 4

Report of Measurements

Para. 2.1033(b)(6)

<u>APPLICANT</u>	<u>MANUFACTURER</u>
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>	<u>PRINTED</u>	<u>TITLE</u>
	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.

EXHIBIT 4

Radiated Emissions, Fundamental & Harmonics

Para. 15.249(a)

EXHIBIT 4

Out-of-Band Radiated Emissions

Para. 15.249(c)/15.209

EXHIBIT 4

Occupied Bandwidth

Para. 15.249(c)

EXHIBIT 4

Conducted Emissions

Para. 15.207(a)

EXHIBIT 5

Equipment Photographs and Label

Para. 2.1033(b)(7)

EQUIPMENT LABEL