

FCC COMPLIANCE TEST REPORT

ON

X-10
Wireless Video Transmitter
Model: 15-1971T
FCC ID: AAO1501971-T

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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- Exhibit 1 Installation and Operating Instructions per 2.1033(b)(3)
- Exhibit 2 Technical Description per 2.1033(b)(4)
- Exhibit 3 Block Diagram and Schematics per 2.1033(b)(5)
- Exhibit 4 Report of Measurements - per 2.1033(b)(6)
- Radiated Emissions, Fundamental & Harmonics 15.249(a)
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 - Occupied Bandwidth 15.249(c)
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- Exhibit 5 Equipment Photographs and Label per 2.1033(b)(7)

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

AAO1501971-T

Operating Instructions

See Exhibit 1

Trade Name

RadioShack

Model Number

15-1971T

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)

REPORT OF MEASUREMENTS

Applicant: X-10 (USA), Inc.
Device: 2400 to 2483.5MHz Wireless Video Transmitter
FCC ID: AAO1501971-T
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 500 μ V/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/50 μ henry 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