

**Exhibit B: Test Report  
Xanboo  
Security Camera, Model XWC700**

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Project Number: 03193-10

Prepared for:  
Xanboo  
1626 Vineyard  
Grand Praire , TX 75052

By

Professional Testing (EMI), Inc.  
1601 FM 1460, Suite B  
Round Rock, Texas 78664

December 2003

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**CERTIFICATION**  
**Electromagnetic Interference Test Report**  
**Xanboo**  
**Security Camera, Model XWC700**  
**(Intentional Radiator Portion)**

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*THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF PROFESSIONAL TESTING (EMI), INC.*



# Certificate of Compliance

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Applicant: Xanboo  
Applicant's Address: 1626 Vineyard  
Grand Praire, TX 75052  
FCC ID: OU4-XWC700  
Project Number: 03193-10  
Test Dates: March 20, 2003

I, Jeffrey A. Lenk, for Professional Testing (EMI), Inc., being familiar with the FCC rules and test procedures have reviewed the test setup, measured data and this report. I believe them to be true and accurate.

The **Xanboo, Security Camera, Model XWC700** was tested to and found to be in compliance with FCC Part 15 Subpart C for an Intentional Radiator.

The highest emissions generated by the above equipment are listed below:

	<u>Frequency (MHz)</u>	<u>Level (dB<math>\mu</math>V/m)</u>	<u>Limit (dB<math>\mu</math>V/m)</u>	<u>Margin (dB)</u>
Fundamental	2470	100.8	103.5	-2.7
	418	79.8	80.3	-0.5
Spurious	4940	46.7	63.5	-16.8
	1254	45.7	69.8	-24.1
Conducted	0.498	44.7	46.0	-1.3
Occupied Bandwidth	166 (kHz)		1.045 (MHz)	

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Jeffrey A. Lenk  
President

This report has been reviewed and accepted by Xanboo. The undersigned is responsible for ensuring that **Xanboo, Security Camera, Model XWC700** will continue to comply with the FCC rules.

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## 1.0 EUT Description

The Equipment under Test (EUT) is the **Xanboo, Security Camera, Model XWC700**. The **Security Camera, Model XWC700** is a TV security camera with motion sensor. The EUT operates at 2470 MHz and 418 MHz and is designed for compliance with 47 CFR 15.231 of the FCC rules. The EUT uses five battery cells and operates either using a power supply or batteries, but not both. Specific test requirements for this device include the following:

47 CFR 15.231 & 15.249	Fundamental Transmit Power
47 CFR 15.231 & 15.205 & 15.249	Spurious Radiated Power
47 CFR 15.231	Occupied Bandwidth
47 CFR 15.203	Antenna Requirement
47 CFR 15.207	Conducted Emissions

The system tested consisted of the following:

<u>Manufacturer &amp; Model</u>	<u>Serial #</u>	<u>FCC ID #</u>	<u>Description</u>
Xanboo, Security Camera, Model XWC700	N/A	OU4-XWC700	Security Camera

## 1.1 EUT Operation

The **Xanboo Security Camera, Model XWC700** was tested using internal batteries with the exception of conducted emissions testing. The frequency of the transmitting television signal is 2470 MHz. This signal is transmitted continuously. The Infrared Motion Sensor Transmitter operating at 418 MHz under normal configuration can only be triggered once per fifteen seconds and transmits a recognition code for 52 milliseconds.

For the purpose of testing, a special mode was used, for most of the testing, allowing the 418 MHz infrared transmitter to transmit continuously.

## 2.0 Electromagnetic Emissions Testing

Professional Testing (EMI), Inc. (PTI), follows the guidelines of NIST for all uncertainty calculations, estimates and expressions thereof for EMC testing.

### 2.1 Conducted Emissions Measurements

Conducted emissions measurements were made on the Class II Power Supply mains terminals of the **Xanboo Security Camera, Model XWC700** to determine the line-to-ground radio noise emitted from each power-input terminal. Conducted emissions measurements on the mains terminals were performed at Professional Testing, located in Round Rock, Texas.

### 2.1.1 Test Procedure

The EUT was configured and operated in a manner consistent with typical applications. The EUT power cord in excess of one meter was folded back and forth forming a bundle 30 to 40 cm long in the approximate center of the cable. Power supply cords for the peripheral equipment were powered from an auxiliary LISN. Excess interface cable lengths were separately bundled in a non-inductive arrangement at the approximate center of the cable with the bundle 30 to 40 centimeters in length. The conducted emissions were maximized, by varying the operating states and configuration of the EUT.

The tests were performed in a 12' x 16' RayProof modular shielded room. The EUT was placed on a non-metallic table 0.4 meters from a vertical metal reference plane and 0.8 meters from a horizontal metal reference plane.

The measurements were taken using a Line Impedance Stabilization Network (LISN). A Spectrum Analyzer with a measurement bandwidth of 10 kHz was used to record the conducted emissions measurements. The configuration of the shielded room showing the location of the EUT and the measurement equipment is given as Figure 1.

### 2.1.2 Test Criteria

The FCC Part 15.207 B conducted emissions limits are given below.

Frequency (MHz)	Limits (dBµV) Average
0.15 – .50	56 - 46
.50 - 5	46
5 – 30	50

The lower limit shall apply at the transition frequency.

### 2.1.3 Test Results

The conducted emissions data is included as Appendix A. The conducted emissions generated by the **Xanboo Security Camera, Model XWC700** as measured on the Class II Power Supply mains terminals were found to be below FCC 15.207 maximum emissions criteria.

## 2.2 Radiated Emissions Measurements

Radiated emission measurements were made of the Fundamental and Spurious Emission levels for the **Xanboo Security Camera, Model XWC700**. Measurements of the occupied bandwidth were also made for the Infrared Transmitter.

Measurements of the maximum emission levels for the fundamental and the spurious/harmonic emissions of the **Xanboo Security Camera, Model XWC700** were made at the Professional Testing "Open Field" Site 3, located in Round Rock, Texas to determine the radio noise radiated from the EUT. A "Description of Measurement Facilities" has been submitted to the FCC and approved pursuant to Section 2.948 of CFR 47 of the FCC rules.

Tests of the fundamental for the device were performed to determine the worst case polarization of the devices. The fundamental emissions of the device were measured with the antennas of the device in the three orthogonal axes. The on/off switch is activated by raising the antenna to the vertical position.

### 2.2.1 Test Procedure

The EUT was placed on a non-conductive table 0.8 meters above the ground plane. The table was centered on a motorized turntable which allows 360 degree rotation. For measurements of the fundamental signal, a measurement antenna was positioned at a distance of 3 meters as measured from the closest point of the EUT. For spurious/harmonic measurements above 1 GHz, the measurement antenna was placed 1 meter from the EUT. The radiated emissions were maximized by rotating the EUT.

A Spectrum Analyzer with peak detection was used to find the maximums of the radiated emissions during the variability testing. A drawing showing the test setup is given as Figure 2.

### 2.2.2 Test Criteria

The table below shows FCC Part 15.231 radiated limits for an intentional radiator operating at 418 MHz band. FCC Part 15.231 allows the use of its spurious limit which is higher than the 15.209 limit normally associated with the restricted bands outlined in 15.205. The television transmitter transmitting in the band of 2400-2483.5 MHz is limited to fundamental field strength of 50 millivolts per meter for the fundamental emission and 500 microvolts per meter for the strength of harmonics. The spurious measurements of the harmonic were performed to the 10th harmonic of the fundamental. The reference distance for each limit is also shown in this table.

<u>Signal Type</u>	<u>Test Distance (Meters)</u>	<u>Field Strength</u>	
		<u>(<math>\mu</math>V/m)</u>	<u>(dB<math>\mu</math>V/m)</u>
Fundamental 2470 MHz	3	50,000	94
Harmonics (2nd through 10th)	3	500	54

<u>Signal Type</u>	<u>Test Distance (Meters)</u>	<u>Field Strength</u>	
		<u>(<math>\mu</math>V/m)</u>	<u>(dB<math>\mu</math>V/m)</u>
Fundamental 418 MHz	3	10333.35	80.3
Harmonics (2nd through 10th)	3	1033.335	60.3

Note: Radiated emissions above 1000 MHz were measured at 1 meter and the limit was increased by 9.5 dB.

### 2.2.3 Test Results

The radiated test data for the fundamental is included in Appendix A. Peak detection was used during the test and the corrected signal level was then averaged to account for the duty cycle of the pulsed transmission of the 418 MHz transmitter. The radiated emission test data for the harmonics is included in Appendix A. The emissions were maximized at each frequency and the highest emissions identified were measured using peak detection. The radiated emissions generated by the **Xanboo Security Camera, Model XWC700** are below the FCC Part 15.231 and FCC Part 15.249 maximum emission criteria.

## 3.0 Occupied Bandwidth Measurements

Measurements of the occupied bandwidth for the fundamental signals of the FCC Part 15.231 were made at the Professional Testing's Round Rock, Texas site. All measurements were made in a controlled indoor environment in a configuration which did not present measurement distortion or ambient interference.

### 3.1 Test Procedure

The EUT was placed on a non-conductive table 0.8 meters above the floor. The table was rotated to an angle which presented the highest signal level. The occupied bandwidth was also measured on the device. Peak detection was used for all tests. The occupied bandwidth was based on a 20 dB criteria (20 dB down either side of the emission from the peak emission). A drawing showing the test setup is given as Figure 1.

### 3.2 Test Criteria

According to FCC Part 15.231, the bandwidth of the emission shall not be wider than 0.25 % of the center frequency for the devices operating above 70 MHz and below 900 MHz. The limit is 1.045 MHz for the transmitter working at 418 MHz.

Measurement of the occupied bandwidth was performed to verify that the emission bandwidth from the EUT did not exceed 1.045 MHz. The typical occupied bandwidth for the module is 170 kHz.

FCC Part 15.249 deals with frequency bands. No occupied bandwidth criteria is set forth.

### 3.3 Test Results

The occupied bandwidth test data is included in Appendix B. The occupied bandwidth for the fundamental frequency 418MHz is 166 kHz. The figure is typical for the **Security Camera, Model XWC700** This occupied bandwidth complies with the FCC Part 15.231 requirement.

The intended center frequency for the EUT was centered at 2470 MHz. The center frequency is within the allowed band. The fundamental signal generated by the **Xanboo Security Camera, Model XWC700** is within the band allowed under FCC Part 15.249 emission band criteria.



## 4.0 Antenna Requirement

An analysis of the **Xanboo Security Camera, Model XWC700** was performed to determine compliance with Section 15.203 of the Rules. This section requires specific handling and control of antennas used for devices subject to regulations under the Intentional Radiator portions of Part 15.

### 4.1 Evaluation Procedure

The structure and application of the **Xanboo Security Camera, Model XWC700** were analyzed with respect to the rules. The antenna for the television transmitter is an external antenna, which is molded as part of the EUT housing and is not accessible to the user. The antenna for the motion sensor transmitter is a wire that is soldered to the PCB and is inside of the EUT housing and is not accessible to the user. An auxiliary antenna port is not present in either case.

### 4.2 Evaluation Criteria

Section 15.203 of the rules states that the subject device must meet at least one of the following criteria:

- (a) Antenna be permanently attached to the unit.
- (b) Antenna must use a unique type of connector to attach to the EUT.
- (c) Unit must be professionally installed. Installer shall be responsible for verifying that the correct antenna is employed with the unit.

### 4.3 Evaluation Results

The **Security Camera, Model XWC700** meets the criteria of this rule by virtue of having an external antenna permanently attached to the unit and an internal antenna not accessible to the user. The EUT is therefore compliant with §15.203.

## 5.0 Modifications to Equipment

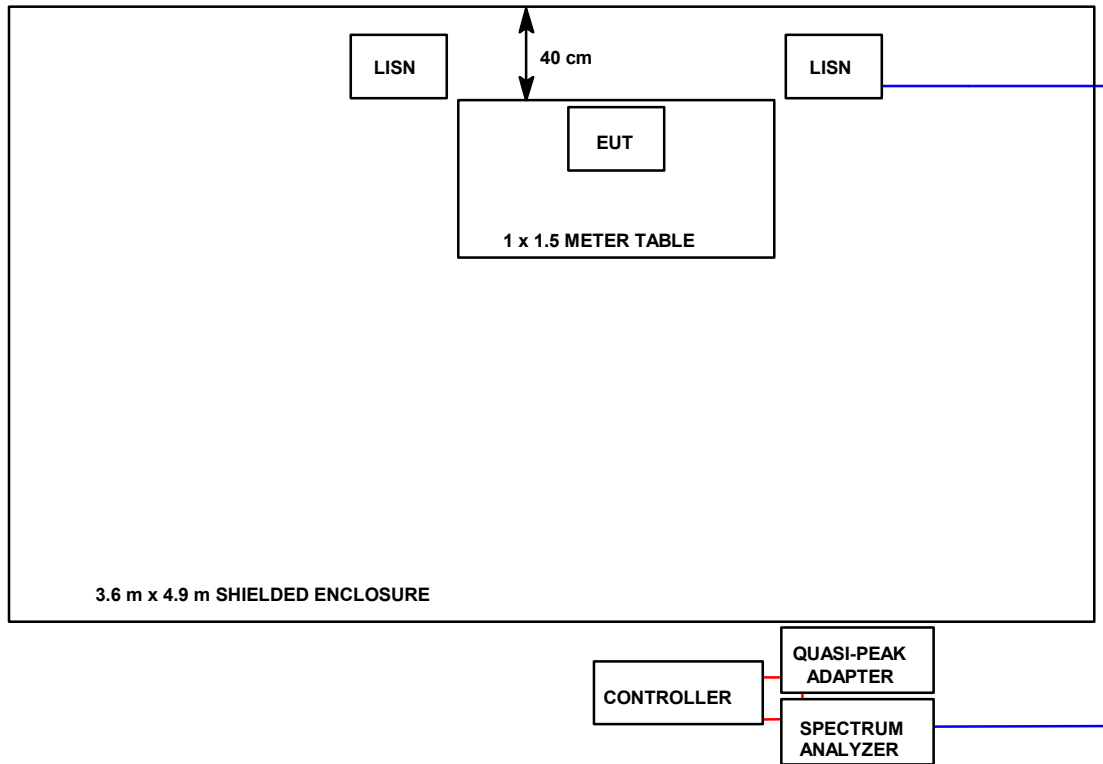
There were no modifications made on the **Security Camera, Model XWC700** during the performance of the test program in order to meet the FCC criteria.

## 6.0 List of Test Equipment

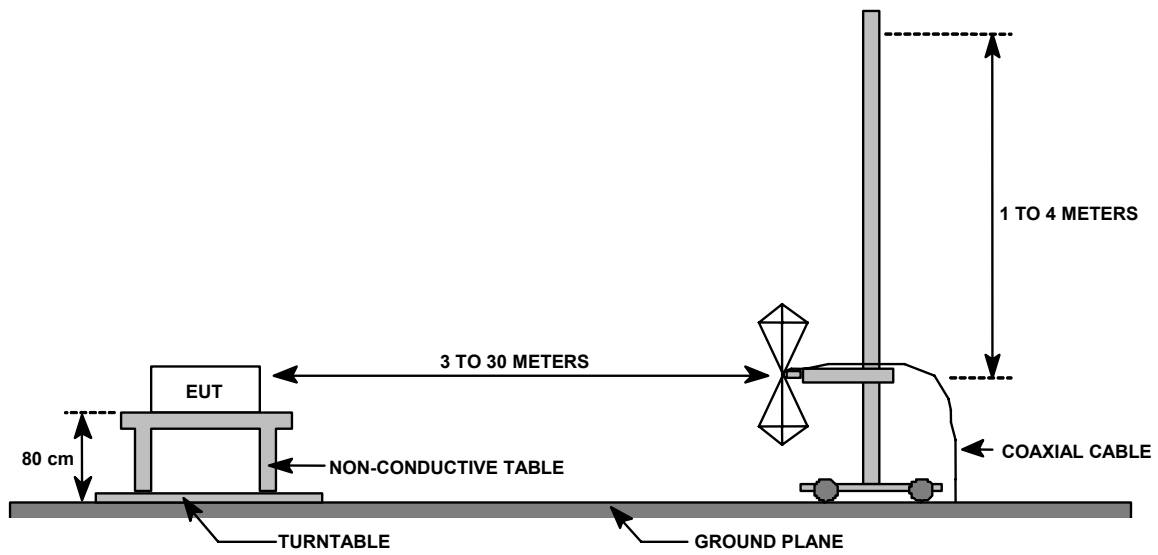
A list of the test equipment utilized to perform the testing is given below. The date of calibration is given for each.

<u>Device</u>	<u>Description</u>	<u>Calibration Due</u>
<u>Electromagnetic Emissions</u>		
<u>Test Equipment</u>		
EMCO 3146	Log Periodic Antenna	December 2004
HP 85662A	Display unit	November 2004
HP 85662B	Spectrum Analyzer	November 2004
HP 8447D	Preamplifier	November 2004
HP 8566B	Spectrum Analyzer	November 2004
Cond. EMI Cable	RG-223	November 2004
Tektronix 2706	RF Preselctor	January 2005
MITEQ	18GHz 20dB Preamplifier	December 2003
SOLAR 8012-50-R-24-	LISN	October 2004
EMCO 3108	Biconical Antenna	September 2004
EMCO 3115	Ridge Guide Antenna	June 2004

**FIGURE 1: Conducted Emissions Mains Terminal Measurements**



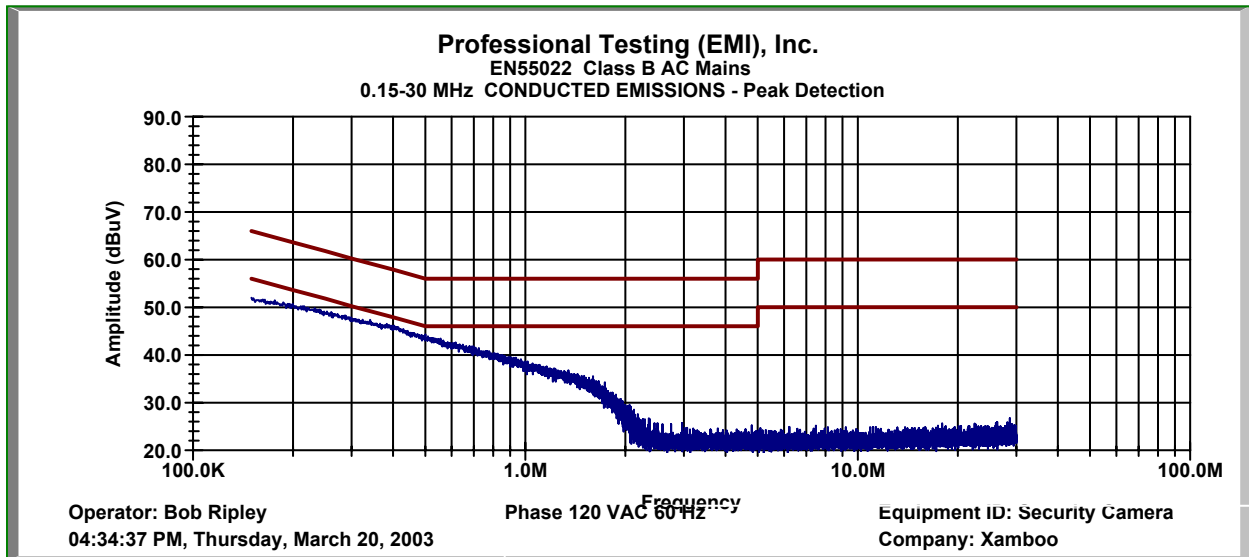
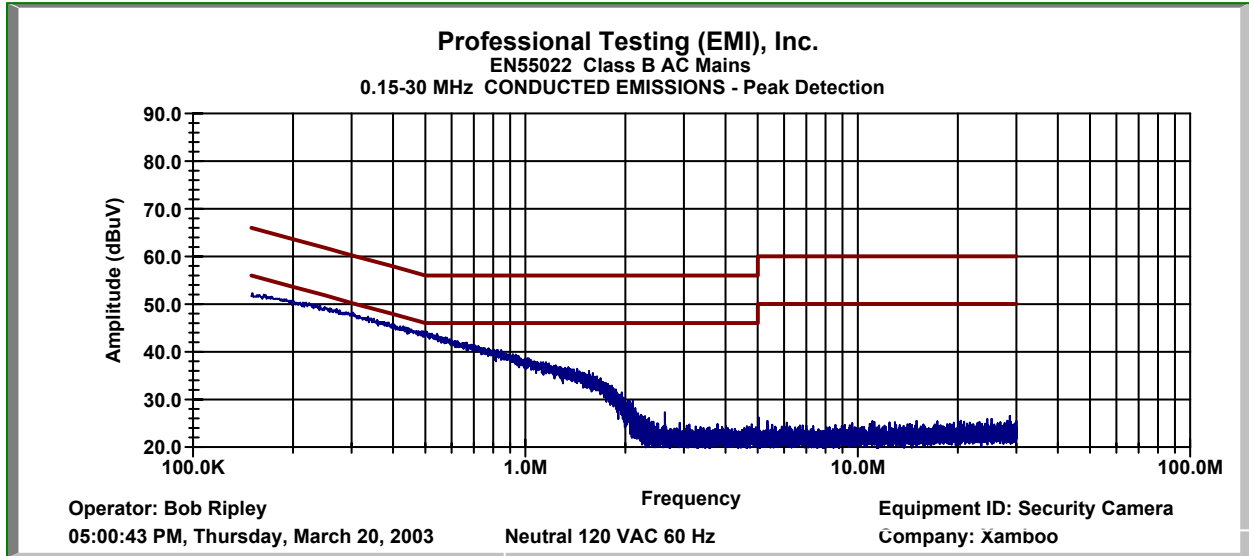
**FIGURE 2: Radiated Emissions Test Setup**





**Conducted Data Sheet**  
**Xanboo**  
**Security Camera, Model XWC700**  
**Television Transmitter**

DATE: March 20, 2003  
PROJECT: 03193-10



The data presented here in graphical form is for overview only. Detailed and precise data is in the datasheets that follow.

**Conducted Data Sheet**  
**Xanboo**  
**Security Camera, Model XWC700**

Project# 03193-10	Line Selection : Neutral
Date: March 20, 2003	120 VAC/60 Hz

FREQ INPUT MHz	CORR READING dBuV	Limit dBuV	Margin dB	Detector Function
0.151	52.3	55.9	-3.6	Peak
0.166	51.8	55.2	-3.4	Peak
0.247	49.1	51.9	-2.8	Peak
0.336	47.4	49.3	-1.9	Peak
0.422	45.0	47.4	-2.4	Peak
0.498	44.7	46.0	-1.3	Peak

*Margin = Limit - Corrected Reading*

**Conducted Data Sheet  
Xanboo  
Security Camera, Model XWC700**

Project# 03193-10	Line Selection : Phase
Date: March 20, 2003	120 VAC/60 Hz

FREQ INPUT MHz	CORR READING dBuV	Limit dBuV	Margin dB	Detector Function
0.15	52.0	56.0	-4.0	Peak
0.176	51.4	54.7	-3.3	Peak
0.291	47.8	50.5	-2.7	Peak
0.340	47.1	49.2	-2.1	Peak
0.390	46.2	48.1	-1.9	Peak
0.555	43.4	46.0	-2.6	Peak

*Margin = Limit – Corrected Reading*



**Radiated Data Sheet  
Fundamental and Harmonics  
Xanboo  
Security Camera, Model XWC700  
Television Transmitter**

DATE: March 20, 2003  
PROJECT: 03193-10

MEASUREMENT DISTANCE (m): 1  
DETECTOR FUNCTION: Average  
RBW = 1 MHz : VBW = 10 KHz

*Antenna Horizontal*

Freq. (MHz)	EUT Dir (Deg.)	Antenna Elevation (Meters)	Recorded Level (dBuV)	Amplifier Gain (dB)	Antenna Factor (dB/M)	Cable Loss (dB)	Corrected Level (dBuV/M)	Limit (dBuV/M)	Margin (dB)
2470	90	1	83.9	21.8	26.7	2.9	91.6	103.5	-11.9
4937.5	Noise	Floor	24.3	22.5	31.5	4.2	37.5	63.5	-26.0

*Antenna Vertical*

Freq. (MHz)	EUT Dir (Deg.)	Antenna Elevation (Meters)	Recorded Level (dBuV)	Amplifier Gain (dB)	Antenna Factor (dB/M)	Cable Loss (dB)	Corrected Level (dBuV/M)	Limit (dBuV/M)	Margin (dB)
2470	350	1	93.1	21.8	26.7	2.9	100.8	103.5	-2.7
4940	90	1	34.5	21.8	31.5	2.5	46.7	63.5	-16.8

$$\text{Corrected Level} = \text{Recorded Level} - \text{Amplifier Gain} + \text{Antenna Factor} + \text{Cable Loss}$$

TEST ENGINEER: Bob Ripley

**Radiated Data Sheet  
Fundamental and Spurious  
Xanboo  
Security Camera, Model XWC700  
Motion Sensor**

DATE: March 20, 2003  
PROJECT: 03193-10

DETECTOR FUNCTION: Average  
Transmit On for 19 ms

*Antenna Horizontal*

Freq. (MHz)	EUT Orientation	EUT Dir (Deg.)	Antenna Elevation (Meters)	Test Distance (Meters)	Peak Corr Level (dBuV/m)	Averaging Factor (dB)	Average Corr Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
418	Horizontal	110	2	3.0	91.5	-11.7	79.8	80.3	-0.5
836	Horizontal	30	2.4	3.0	46.5	-11.7	34.8	54	-25.5
1254	Horizontal	160	1	1.0	57.4	-11.7	45.7	63.5	-24.1
1672	Horizontal	270	1	1.0	46.6	-11.7	34.9	63.5	-34.9
2090	Noise	Floor	1	1.0	50.5	0	50.5	63.5	-19.3
2508	Noise	Floor	1	1.0	50.0	0	50.0	63.5	-19.8
2926	Noise	Floor	1	1.0	50.8	0	50.8	63.5	-19
3344	Noise	Floor	1	1.0	50.9	0	50.9	63.5	-18.9
3762	Noise	Floor	1	1.0	51.9	0	51.9	63.5	-17.9
4180	Noise	Floor	1	1.0	54.1	0	54.1	63.5	-15.7

*Average Corrected Level = Peak corrected Level + Averaging Factor*

*Averaging Factor = 20 \* Log (T on / 100 ms) which in this case = -11.7 dB*

**Radiated Data Sheet  
Fundamental and Spurious  
Xanboo  
Security Camera, Model XWC700  
Motion Sensor**

DATE: March 20, 2003  
PROJECT: 03193-10

DETECTOR FUNCTION: Average  
Transmit On for 19 ms

*Antenna Vertical*

Freq. (MHz)	EUT Orientation	EUT Dir (Deg.)	Antenna Elevation (Meters)	Test Distance (Meters)	Peak Corr Level (dBuV/m)	Averaging Factor (dB)	Average Corr Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
418	Vertical	90	1.5	3.0	85.8	-11.7	74.1	80.3	-6.2
836	Vertical	0	1	3.0	35.0	-11.7	23.3	54	-37.0
1254	Vertical	160	1	1.0	56.1	-11.7	44.4	63.5	-25.4
1672	Vertical	270	1	1.0	55	-11.7	43.3	63.5	-26.5
2090	Noise	Floor	1	1.0	50.5	0	50.5	63.5	-19.3
2508	Noise	Floor	1	1.0	50.0	0	50.0	63.5	-19.8
2926	Noise	Floor	1	1.0	50.8	0	50.8	63.5	-19
3344	Noise	Floor	1	1.0	50.9	0	50.9	63.5	-18.9
3762	Noise	Floor	1	1.0	51.9	0	51.9	63.5	-17.9
4180	Noise	Floor	1	1.0	54.1	0	54.1	63.5	-15.7

*Average Corrected Level = Peak Corrected Level + Averaging Factor (when T on < 100 ms)*

*Averaging Factor = 20 \* Log (T on / 100 ms) which in this case = -11.7 dB*

**Radiated Data Sheet**  
**Spurious**  
**Xanboo**  
**Security Camera, Model XWC700**

DATE: March 20, 2003  
PROJECT: 03193-10

DETECTOR FUNCTION: Average

*Antenna Horizontal*

Freq. (MHz)	EUT Dir (Deg.)	Antenna Elevation (Meters)	Recorded Level (dBuV)	Amplifier Gain (dB)	Antenna Factor (dB/M)	Cable Loss (dB)	Corrected Level (dBuV/M)	Limit (dBuV/M)	Margin (dB)
1254	170	1	50.5	20.8	25.7	2.0	57.4	69.8	-12.4
1672	200	1	39.8	21.5	25.9	2.3	46.6	63.5	-16.9
2090	210	1	34.8	22.4	27.3	2.6	42.3	69.8	-27.5
2508	Noise	Floor	32.5	21.8	26.6	2.9	40.2	69.8	-29.6
2926	Noise	Floor	33.1	21.7	27.7	3.2	42.2	69.8	-27.6
3344	Noise	Floor	32.5	22.5	28.7	3.4	42.1	69.8	-27.7
3762	Noise	Floor	32.4	22.5	29.6	3.7	43.2	63.5	-20.3
4180	Noise	Floor	32.5	22.1	30.2	4.0	44.5	63.5	-19.0

*Antenna Vertical*

Freq. (MHz)	EUT Dir (Deg.)	Antenna Elevation (Meters)	Recorded Level (dBuV)	Amplifier Gain (dB)	Antenna Factor (dB/M)	Cable Loss (dB)	Corrected Level (dBuV/M)	Limit (dBuV/M)	Margin (dB)
1254	180	1	49.2	20.8	25.7	2.0	56.1	63.5	-7.4
1672	180	1	48.2	21.5	25.9	2.3	55.0	63.5	-8.5
2090	180	1	37.9	22.4	27.3	2.6	45.4	63.5	-18.1
2508	180	1	34.6	21.8	26.6	2.9	42.3	63.5	-21.2
2926	0	1	33.1	21.7	27.7	3.2	42.2	63.5	-21.3
3344	Noise	Floor	32	22.5	28.7	3.4	41.6	63.5	-21.9
3762	70	1	33.5	22.5	29.6	3.7	44.3	63.5	-19.2
4180	Noise	Floor	32.5	22.1	30.2	4.0	44.5	63.5	-19.0

Corrected Level = Recorded Level - Amplifier Gain + Antenna Factor + Cable Loss

**Radiated Data Sheet**  
**Xanboo**  
**Security Camera, Model XWC700**

DATE: February 13, 2004  
PROJECT: 03193-10

DETECTOR FUNCTION: Peak  
Measurement Distance: 1 Meter

*Antenna Horizontal*

Freq. (MHz)	EUT Dir (Deg.)	Antenna Elevation (Meters)	Recorded Level (dBuV)	Amplifier Gain (dB)	Antenna Factor (dB/M)	Cable Loss (dB)	Corrected Level (dBuV/M)	Limit (dBuV/M)	Margin (dB)
1254	170	1	55.4	20.8	25.7	2.0	62.3	91.4	-29.1
1672	200	1	44.7	21.5	25.9	2.3	51.5	91.4	-39.9
2090	210	1	42.4	22.4	27.3	2.6	49.9	91.4	-41.5
2508	Noise	Floor	41	21.8	26.6	2.9	48.7	91.4	-42.7
2926	Noise	Floor	41	21.7	27.7	3.2	50.1	91.4	-41.3
3344	Noise	Floor	41	22.5	28.7	3.4	50.6	91.4	-40.8
3762	Noise	Floor	41	22.5	29.6	3.7	51.8	91.4	-39.6
4180	Noise	Floor	41	22.1	30.2	4.0	53.0	91.4	-38.4

*Antenna Vertical*

Freq. (MHz)	EUT Dir (Deg.)	Antenna Elevation (Meters)	Recorded Level (dBuV)	Amplifier Gain (dB)	Antenna Factor (dB/M)	Cable Loss (dB)	Corrected Level (dBuV/M)	Limit (dBuV/M)	Margin (dB)
1254	180	1	53.7	20.8	25.7	2.0	60.6	91.4	-30.8
1672	180	1	46.2	21.5	25.9	2.3	53.0	91.4	-38.4
2090	180	1	43.6	22.4	27.3	2.6	51.1	91.4	-40.3
2508	Noise	Floor	41.6	21.8	26.6	2.9	49.3	91.4	-42.1
2926	Noise	Floor	41	21.7	27.7	3.2	50.1	91.4	-41.3
3344	Noise	Floor	41	22.5	28.7	3.4	50.6	91.4	-40.8
3762	Noise	Floor	41	22.5	29.6	3.7	51.8	91.4	-39.6
4180	Noise	Floor	41	22.1	30.2	4.0	53.0	91.4	-38.4

Corrected Level = Recorded Level - Amplifier Gain + Antenna Factor + Cable Loss

**Radiated Data Sheet**  
**Xanboo**  
**Security Camera, Model XWC700**

DATE: February 13, 2004  
PROJECT: 03193-10

DETECTOR FUNCTION: Peak  
Measurement Distance: 1 Meter

*Antenna Horizontal*

Freq. (MHz)	EUT Dir (Deg.)	Antenna Elevation (Meters)	Recorded Level (dBuV)	Amplifier Gain (dB)	Antenna Factor (dB/M)	Cable Loss (dB)	Corrected Level (dBuV/M)	Limit (dBuV/M)	Margin (dB)
2470	90	1	94.8	21.8	26.7	2.9	102.5	123.5	-21.0
4937.5	90	1	52.5	22.5	31.5	4.2	65.7	83.5	-17.8
7410	Noise	Floor	42	20.4	35.1	3.0	59.7	83.5	-23.8
9880	Noise	Floor	42	20.5	37.9	3.5	62.9	83.5	-20.6
12350	Noise	Floor	42	21.6	38.6	1.5	60.6	83.5	-23.0
14820	Noise	Floor	42	20.7	40.1	1.5	62.9	83.5	-20.6
17290	Noise	Floor	42	20.2	41.4	1.6	64.8	83.5	-18.7
19760	Noise	Floor	42	20.0	42.0	2.0	66.0	83.5	-17.5

*Antenna Vertical*

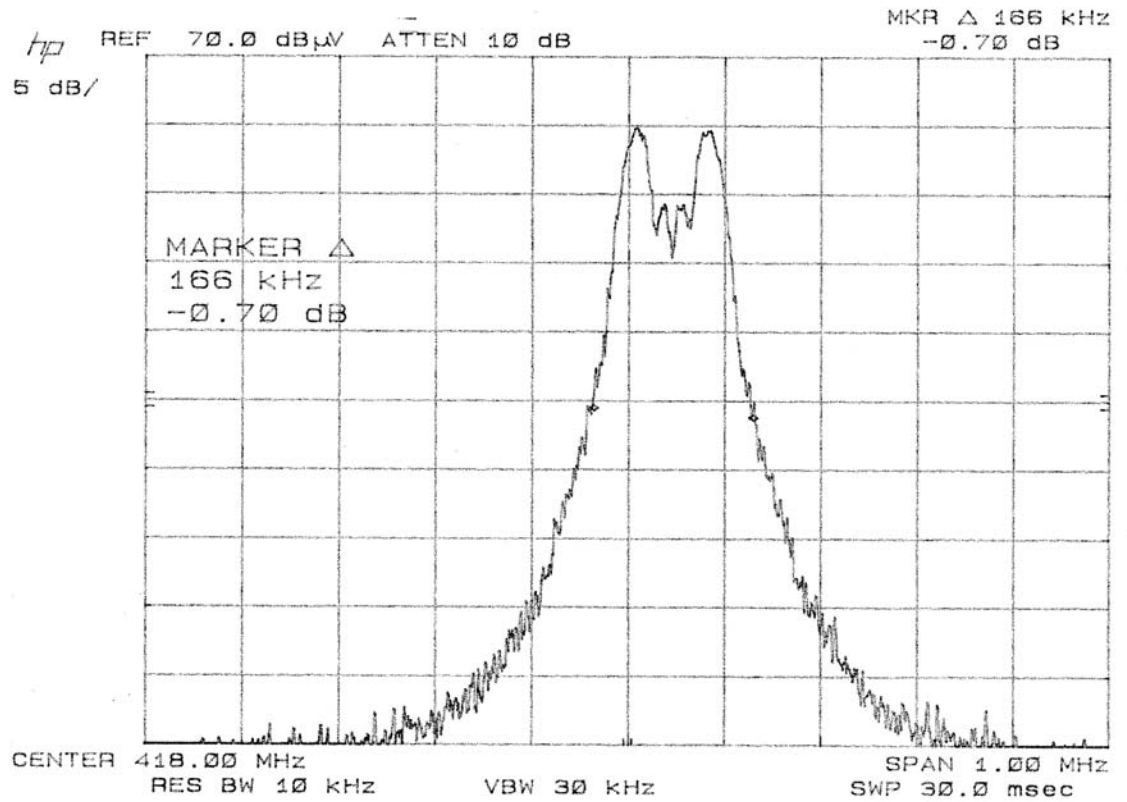
Freq. (MHz)	EUT Dir (Deg.)	Antenna Elevation (Meters)	Recorded Level (dBuV)	Amplifier Gain (dB)	Antenna Factor (dB/M)	Cable Loss (dB)	Corrected Level (dBuV/M)	Limit (dBuV/M)	Margin (dB)
2470	350	1	96.2	21.8	26.7	2.9	103.9	123.5	-19.6
4940	90	1	53.1	21.8	31.5	2.5	65.3	83.5	-18.2
7410	Noise	Floor	41	21.8	35.1	3.0	57.3	83.5	-26.2
9880	Noise	Floor	41	21.8	37.9	3.5	60.6	83.5	-22.9
12350	Noise	Floor	41	21.8	38.6	1.5	59.3	83.5	-24.2
14820	Noise	Floor	41	21.8	40.1	1.5	60.8	83.5	-22.7
17290	Noise	Floor	41	21.8	41.4	1.6	62.2	83.5	-21.3
19760	Noise	Floor	41	20.0	42.0	2.0	65.0	83.5	-18.5

Corrected Level = Recorded Level - Amplifier Gain + Antenna Factor + Cable Loss

# **Appendix B Occupied Bandwidth Data Sheets**

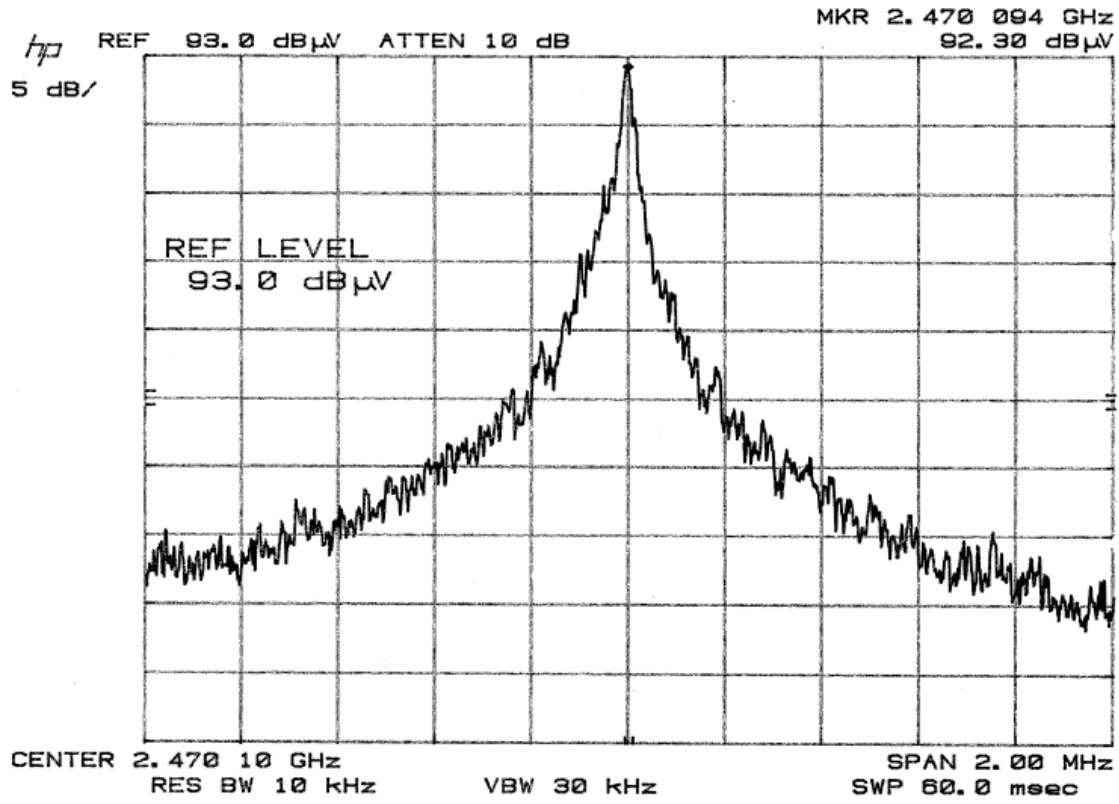
Occupied Bandwidth Datasheet  
Xanboo  
Security Camera, Model XWC700

418 MHz Trasmmitter





Occupied Bandwidth Datasheet  
Xanboo  
Security Camera, Model XWC700



Transmitter Timing Measurement  
Xanboo  
Security Camera, Model XWC700

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