ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT CERTIFICATION TO FCC PART 15 REQUIREMENTS

for

UNINTENTIONAL RADIATOR

AUTO ALARM SYSTEM RECEIVER

MODEL: 6731

FCC ID NO: H50R25

REPORT NO: 99T0123-1

ISSUE DATE: MARCH 17, 1999

Prepared for

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REPORT NO:99T0123-1 FCC ID:H50R25 DATE:MARCH 17, 1999

EUT: AUTO ALARM SYSTEM RECEIVER

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EUT: AUTO ALARM SYSTEM RECEIVER

1. VERIFICATION OF COMPLIANCE

COMPANY NAME : ADVANCE SECURITY INC.

3F, 48, TA AN STREET, HSI CHIH TAIPEI HSIEN, TAIWAN, R.O.C.

CONTACT PERSON : JESSIE CHIU/SALES MANAGER

TELEPHONE NO. : 886-2-643-8192

EUT DESCRIPTION : AUTO ALARM SYSTEM RECEIVER

MODEL NAME/NUMBER : 6731

FCC ID : H50R25

DATE TESTED : MARCH 17, 1999

REPORT NUMBER : 99T0123-1

TYPE OF EQUIPMENT	SECURITY EQUIPMENT (UNINTENTIONAL RADIATOR)
EQUIPMENT TYPE	310 MHz SUPERREGENERATE RECEIVER
MEASUREMENT PROCEDURE	ANSI 63.4 / 1992
LIMIT TYPE	CERTIFICATION
FCC RULE	CFR 47, PART 15.109

The above equipment was tested by Compliance Engineering Services, Inc. for compliance with the requirements set forth in CFR 47, PART 15. This said equipment in the configuration described in this report shows that maximum emission levels emanating from equipment are within the compliance requirements.

MIKE C.I. KUO / VICE PRESIDENT COMPLIANCE ENGINEERING SERVICES, INC.

2. PRODUCT DESCRIPTION

ADVANCE SECURITY INC., Model 6731 is the receiving portion of a multi-purpose security device. The associated Transmitter is manufactured by Advance Security Inc, Model No: 603, FCC ID: H50603. It can be used with any 677X series alarms.

3. TEST FACILITY

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The 3 meter open area test site and conducted measurement facility used to collect the radiated data is located at 561F Monterey Road, Morgan Hill, California, U.S.A. A detailed description of the test facilities was submitted to the Commission on May 27, 1994.

The measuring instrument which was utilized in performing the tests documented herein has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment which is traceable to recognized national standards.

MEASUREMENT EQUIPMENT USED 4.

Manufacturer	Model Number	Description	Cal Due Date
H.P.	E4432A	Signal Generator	08/99
		(0.5 - 1024 MHz)	
H.P.	8566B Spectrum Analyzer		08/99
		(100Hz - 22GHz)	
EMCO	3146	Antenna	10/99
		(200-1000 MHz)	
H.P. 8447D		Preamplifier	09/99
		(0.1 - 1300 MHz)	
ARA	DRG-18/A	Antenna(1 - 18GHZ)	12/99
H.P.	8449B	Preamplifier (1-26.5GHZ)	03/00

5. **TEST CONFIGURATION**

Set frequency generator to 310 MHz, EUT receiving transmission continuously. All the wires are placed on the turn table to their maximum length to simulate the worse emission conditions.

TESTS CONDUCTED 6.

CFR 47, 15.109	CONDUCTED AT 3 METERS
RADIATED EMISSION TESTS	

7. RADIATED EMISSION TEST PROCEDURE

The EUT and all other support equipment are placed on a wooden table 80 cm above the ground screen. Antenna to EUT distance is 3 meters. During the test, the table is rotated 360 degrees to maximize emissions and the antenna is positioned from 1 to 4 meters above the ground screen to further maximize emissions. The antenna is polarized in both vertical and horizontal positions.

Monitor the frequency range of interest at a fixed antenna height and EUT azimuth. Frequency span should be small enough to easily differentiate between broadcast stations and intermittent ambients. Rotate EUT 360 degrees to maximize emissions received from EUT. If emission increases by more than 1 dB, or if another emission appears that is greater by 1 dB, return to azimuth where maximum occurred and perform additional cable manipulation to further maximize received emission.

Move antenna up and down to further maximize suspected highest amplitude signal. If emission increased by 1 dB or more, or if another emission appears that is greater by 1dB or more, return to antenna height where maximum signal was observed and manipulate cables to produce highest emissions, noting frequency and amplitude.

8. COHERENT TESTS

During Radiated Emission Tests, H.P. signal generator model no: E4432A (0.5-1024mhz) was used to radiate unmodulated CW signal to EUT at 309.67 MHz. Please refer to radiated emission data no: 990317C1 for six highest readings.

9. EQUIPMENT MODIFICATIONS

To achieve compliance to FCC section 15.109, the following change(s) were made during compliance testing:

NOT APPLICABLE

10. TEST CONFIGURATION PHOTOS (Radiated Emission Test)







