I. GENERAL INFORMATION

1. Applicant's Name and Mailing Address : Sam Joo Electronic Co.
366-7 Songnae-Dong, Nam-Ku, Buchun-City, Kyungki-Do, Korea

2. Manufacturer's Name and Mailing Address : Sam Joo Electronic Co.
366-7 Songnae-Dong, Nam-Ku, Buchun-City, Kyungki-Do, Korea

3. Equipment Descriptions

- 3.1 Tuning Frequency : 300MHz
- 3.2 Detect Method : Superregenerative Detector
- 3.3 Used Oscillator : 4.0MHz(Resonator)
- 3.4 Power Supply : DC 12.0V (Car Battery)

4. Rules and Regulations : FCC Part 15, Subpart B

5. Measuring Procedure : ANSI C63.4-1992

6. Place of Measurement : Absorber-lined room(3-Meter) of KAITECH

7. Date of Measurement

- 7.1 Line Conducted : Not Applicable
- 7.2 Radiated Emission : July 22, 1998

8. Statement of Compliance

We, KAITECH, HEREBY STATE THAT the measurements shown in this report were made in accordance with the procedures indicated and the emission emitted by this equipment was found to be within the limits applicable.

Measured by ;

S. J. Kim

Seok-Jin Kim
Senior Engineer

Reviewed by ;

Chang Ho Ko

Chang-Ho Ko
Team Leader
EMC Team

II. GENERAL REQUIREMENTS OF THE EUT

1. Labelling Requirement (Section 15.19)

> This device complies with Part 15 of the FCC Rules.
> Operation is subject to the following two conditions :
> (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

1.1 Location on Enclosure : Bottom Side

1.2 How Applied : By Ink-Printing on Adhesive Label

2. Information to User (Section 15.21)

The following or similar statements were provided in the manual for user instruction.
Please refer page 1 of the attached manual for details.

> CAUTION : Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

3. Special Accessories (Section 15.27)

3.1 Were the special Accessories provided? [ ] yes, [x] no

3.2 If yes, details for the special accessories are as follows :

3.3 If yes, were the appropriate instructions provided on the first page of the text concerned with the device?
[ ] yes, [ ] no

3.4 Are these accessories provided of the type which can be readily obtained from multiple retail outlets?
[ ] yes, [ ] no

And therefore does the manual specify what additional components or accessories are required to used in order to comply with the Rules?
[ ] yes, [ ] no

DESCRIPTION OF CIRCUIT FUNCTION

Circuit description of the receiver

-.When the car 12 volts battery is connected to the base unit, the power is applied to the IC U1,2,3,4,5,6 and Q1,2,3 through the 5 Volts Regulator IC U5.

-.Once the 300 Mhz frequency's ratio wave with encoded data receive through the antenna, it is amplified in the RF buffer Stage amplifier Q1.

-.This signal is applied to the Regenerator type ASK Detector stage which is constructed by Q2,T1,C5~8,L1,etc,and recovered data.

-.Since the recovery data is very weak for driving logic level, it is passed through the two amplification IC U1 enough to driver the μ-com IC U4 to the logic level.

-.The EEPROM IC U3 memorized the early data(the encoded security data code)from the Transmitter.

-.After that, the received data is decoded by the micro-controller IC U4. and comparing it to the security code, the micro-controller perform the Car Security functions such as Arming, Disarming, Panic, etc...

-.All functions of the Auto-security convenience system are determined by the customized μ-controller IC U4.

-The 7-darlington TR array IC U5 is Input / Output driver