

**ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT
CERTIFICATION TO FCC PART 15 REQUIREMENTS**

for

INTENTIONAL RADIATOR

27 MHZ WIRELESS MOUSE

MODEL: HM-868

BRAND NAME: High & Hyper

FCC ID NO: P92HHQ011113MSTX3

REPORT NO: 01E9855

ISSUE DATE: May 31, 2002

Prepared for

**HIGH & HYPER TECHNOLOGY CO., LTD.
2F, NO. 60, TA TUNG RD., TAOYUAN CITY, TAIWAN, R. O. C.**

Prepared by

**COMPLIANCE ENGINEERING SERVICES, INC.
NO. 199, CHUNG SHENG ROAD, HSIN TIEN CITY, TAIPEI,
TAIWAN, R. O. C.**

d.b.a.

COMPLIANCE CERTIFICATION SERVICES



TABLE OF CONTENTS	PAGE
1. VERIFICATION OF COMPLIANCE	1
2. PRODUCT DESCRIPTION	2
3. TEST FACILITY	2
4. MEASUREMENT STANDARDS	2
5. TEST METHODOLOGY	2
6. MEASUREMENT EQUIPMENT USED.....	2
7. POWERLINE RFI LIMIT	2
8. RADIATED EMISSION LIMITS	3
9. SYSTEM TEST CONFIGURATION	4
10. SYSTEM TEST CONFIGURATION	5
11. TEST PROCEDURE AND RESULT	5
11. 1 RADIATED EMISSION TEST PROCEDURE And RESULT	5
● TEST DATA	
● EXTERNAL & INTERNAL PHOTOS	
● SCHEMATICS	
● BLOCK DIAGRAM	
● USER MANUAL	

1. VERIFICATION OF COMPLIANCE

COMPANY NAME: HIGH & HYPER TECHNOLOGY CO., LTD.
2F, NO. 60, TA TUNG RD., TAOYUAN CITY,
TAIWAN, R. O. C.

CONTACT PERSON: Nelson Yeh / General Manager

TELEPHONE NO.: 886-3-3472619

EUT DESCRIPTION: 27 MHz WIRELESS MOUSE

MODEL NAME/NUMBER: HM-868

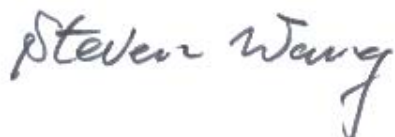
FCC ID: P92HHQ011113MSTX3

DATE TESTED: January 25, 2001

REPORT NUMBER: 01E9855

TYPE OF EQUIPMENT	REMOTE CONTROL
EQUIPMENT TYPE	27 MHz WIRELESS MOUSE
MEASUREMENT PROCEDURE	ANSI C63.4 / 1992
LIMIT TYPE	CERTIFICATION
FCC RULE	CFR 47, PART 15

The above equipment was tested by Compliance Engineering Services, Inc. for compliance with the requirements set forth in the FCC CFR 47, PART 15. The results of testing in this report apply to the product/system which was tested only. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties. **Warning** : This document reports conditions under which testing was conducted and results of tests performed. This document may not be altered or revised in any way unless done so by Compliance Engineering Services, Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by Compliance Engineering Services, Inc. will constitute fraud and shall nullify the document.



STEVEN WANG / RF DEPT. MANAGER
COMPLIANCE ENGINEERING SERVICES, INC.

2. PRODUCT DESCRIPTION

CHASSIS TYPE	Plastic
Fundamental Frequency	27.045MHz ; 27.195MHz
Power source	3.0V Battery
Transmitting Time	Continuous
Local Oscillators	N/A

3. TEST FACILITY

The open area test sites and conducted measurement facilities used to collect the radiated data are located at No. 199, Chung Sheng Road, Hsin Tien City, Taipei, Taiwan R.O.C. The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

4. MEASUREMENT STANDARDS

The site is constructed and calibrated in conformance with the requirements of ANSI C63.4/1992.

5. TEST METHODOLOGY

For an intentional radiator, the spectrum shall be investigated from the lowest radio frequency signal generated in the device, without going below 9 KHz, up to at least the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower. (CFR 47 Section 15.33)

6. MEASUREMENT EQUIPMENT USED

Manufacturer	Model Number	Description	Cal Due Date
R & S	DSAI-D 804.8932.52	EMI Test Display (20Hz – 5GHz)	10/2002
R & S	ESBI- RF/1005.4300.52	EMI Test RF Unit (20Hz – 5GHz)	10/2002
EMCO	6502	Antenna (9KHz – 30MHz)	04/2003
SCHWARZBECK	VULB 9160	Antenna (30 - 2000 MHz)	05/2003
H.P.	8447D	Pre-Amplifier	05/2003
R & S	FSEB30	Spectrum Analyzer	11/2002
Agilent	E3640A	DC Power Supply	12/2002
HP	7475A	Plotter	N/A

7. POWERLINE RFI LIMIT

CONNECTED TO AC POWER LINE	SECTION 15.207
CARRIER CURRENT SYSTEM IN THE FREQUENCY RANGE OF 450 kHz TO 30 MHz	SECTION 15.205 AND SECTION 15.209, 15.221, 15.223, 15.225 OR 15.227, AS APPROPRIATE.
BATTERY POWER	NOT REQUIRED.

8. RADIATED EMISSION LIMITS

GENERAL REQUIREMENTS	SECTION 15.209
RESTRICTED BANDS OF OPERATION	SECTION 15.205
OPERATION WITHIN THE BAND 26.69 – 27.20MHz	SECTION 15.227

9. SYSTEM TEST CONFIGURATION

The EUT was configured for testing in a typical fashion (as a customer would normally use it).



Radiated Open Site Test Set-up

10. SYSTEM TEST CONFIGURATION

To achieve compliance to FCC Section 15.227 technical limits, the following change(s) were made during compliance testing:

There is no modification on this EUT.

11. TEST PROCEDURE AND RESULT

Powerline RFI Limits	Eut	Radiated Emission Limits	Eut
SECTION 15.207		SECTION 15.209	X
SECTION 15.205, 15.209, 15.221, 15.223, x 15.225 OR 15.227		SECTION 15.205	X
BATTEY POWER	X	SECTION 15.227	X

11.1 Radiated Emission Test Procedure and Result

1. The EUT was placed on a wooden table on the outdoor ground plane. The search antenna was placed 3 meter from the EUT. The EUT antenna was mounted vertically was per normal installation.
2. The turntable was slowly rotated to locate the direction of maximum emission at each emission falling in the restricted bands of 15.205.
3. Once maximum direction was determined,, the search antenna was raised and lowered in both vertical and horizontal polarizations. The readings so obtained are recorded in data listed appendix.