

ANTENNA TEST REPORT

according to

ANSI C63.5: 1988

Equipment : **Motion Recognition Controller**
Model No. : **CW-CL01KP-C**
Brand Name : **CyWee**
Filing Type : **New Application**
Applicant : **CyWee Group Ltd.**
3F, 28 Jing Ye 1st Road, Lane 128, Taipei, Taiwan
10462
Manufacturer : **Dongguan Kunying Computer Products Co., Ltd**
Baodun Industrial District, Houjie Town, Dongguan City,
Guangdong Province, 523961 China
Received Date : Mar. 11, 2009
Final Test Date : Mar. 11, 2009

Statement

The test result in this report refers exclusively to the presented test model / sample.

Without written approval of SPORTON International Inc., the test report shall not be reproduced except in full.

The measurements and test results shown in this test report were made in accordance with the procedures and found in compliance with the limit given in ANSI C63.5: 1988.

The test equipment used to perform the test is calibrated and traceable to NML/ROC.

SPORTON International Inc.

6F, No. 106, Sec. 1, Hsin Tai Wu Rd., Hsi Chih, Taipei Hsien, Taiwan, R.O.C.

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History of This Test Report

Original Issue Date: Mar. 18, 2009

Report No.: AP8N1221

Report No.	Issue Date	Description

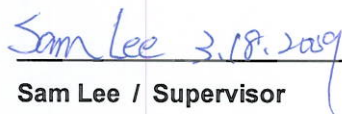
CERTIFICATE OF COMPLIANCE

according to

ANSI C63.5: 1988

Equipment : Motion Recognition Controller
Model No. : CW-CL01KP-C
Brand Name : CyWee
Applicant : CyWee Group Ltd.
3F, 28 Jing Ye 1st Road, Lane 128, Taipei, Taiwan
10462

Sporton International as requested by the applicant to calibrate antennas used for radiated emissions. The product sample received on Mar. 11, 2009 would like to declare that the tested sample has been evaluated and found to be in compliance with the tested standard(s). The data recorded as well as the test configuration specified is true and accurate for showing the sample's antenna nature.


Sam Lee / Supervisor

SPORTON International Inc.

6F, No.106, Sec. 1, Hsin Tai Wu Rd., Hsi Chih, Taipei Hsien, Taiwan, R.O.C.

1 SUMMARY OF THE TEST RESULT

Applied Standard: ANSI C63.5: 1988		
Part	Description of Test	Result
3.1	Antenna Radiated Pattern	Complies

Test Items	Uncertainty	Remark
Antenna Radiated Pattern	$\pm 2.7\text{dB}$	Confidence levels of 95%

2 GENERAL INFORMATION

2.1 Product Details

Items	Description
Product Type	Motion Recognition Controller
Frequency Range	2400 ~ 2483.5MHz

2.2 Table for Filed Antenna

Ant.	Antenna Type	Connector	Gain (dBi)
1	Printed Antenna	FIX ON BOARD	0.78

2.3 Table for Testing Locations

Test Site No.	Site Category	Location
05CH01-HY	FAC	Hwa Ya

Open Area Test Site (OATS); Semi Anechoic Chamber (SAC); Fully Anechoic Chamber (FAC).

3 TEST RESULT

3.1 Antenna Radiated Pattern Measurement

3.1.1 Measuring Instruments and Setting

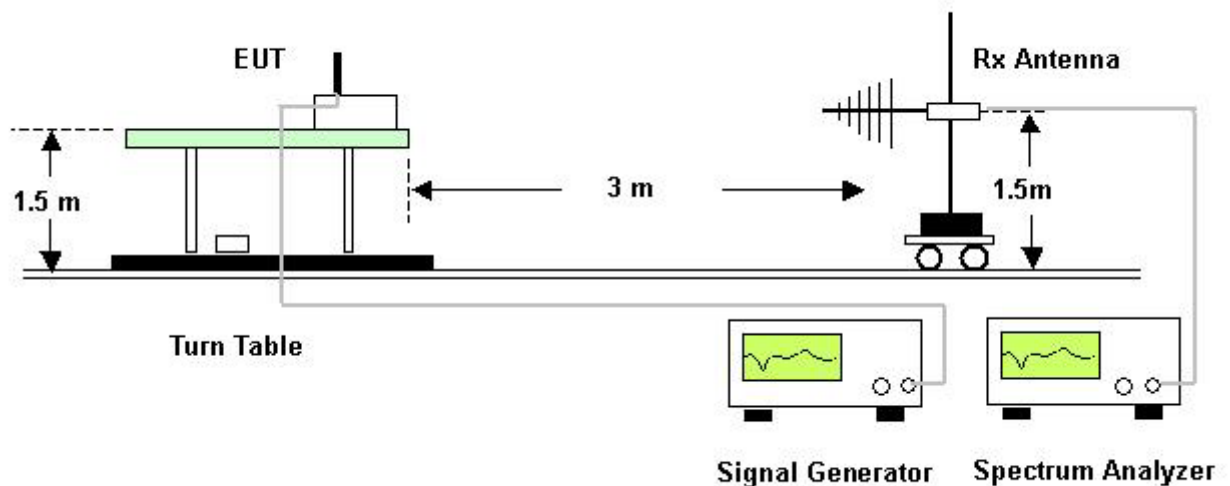
Please refer to section 5 of equipments list in this report. The following table is the setting of the Spectrum Analyzer.

Spectrum Analyzer	Setting
Attenuation	Auto
Span	1MHz
Sweep Time	5ms
RB / VB	100 kHz / 100 kHz

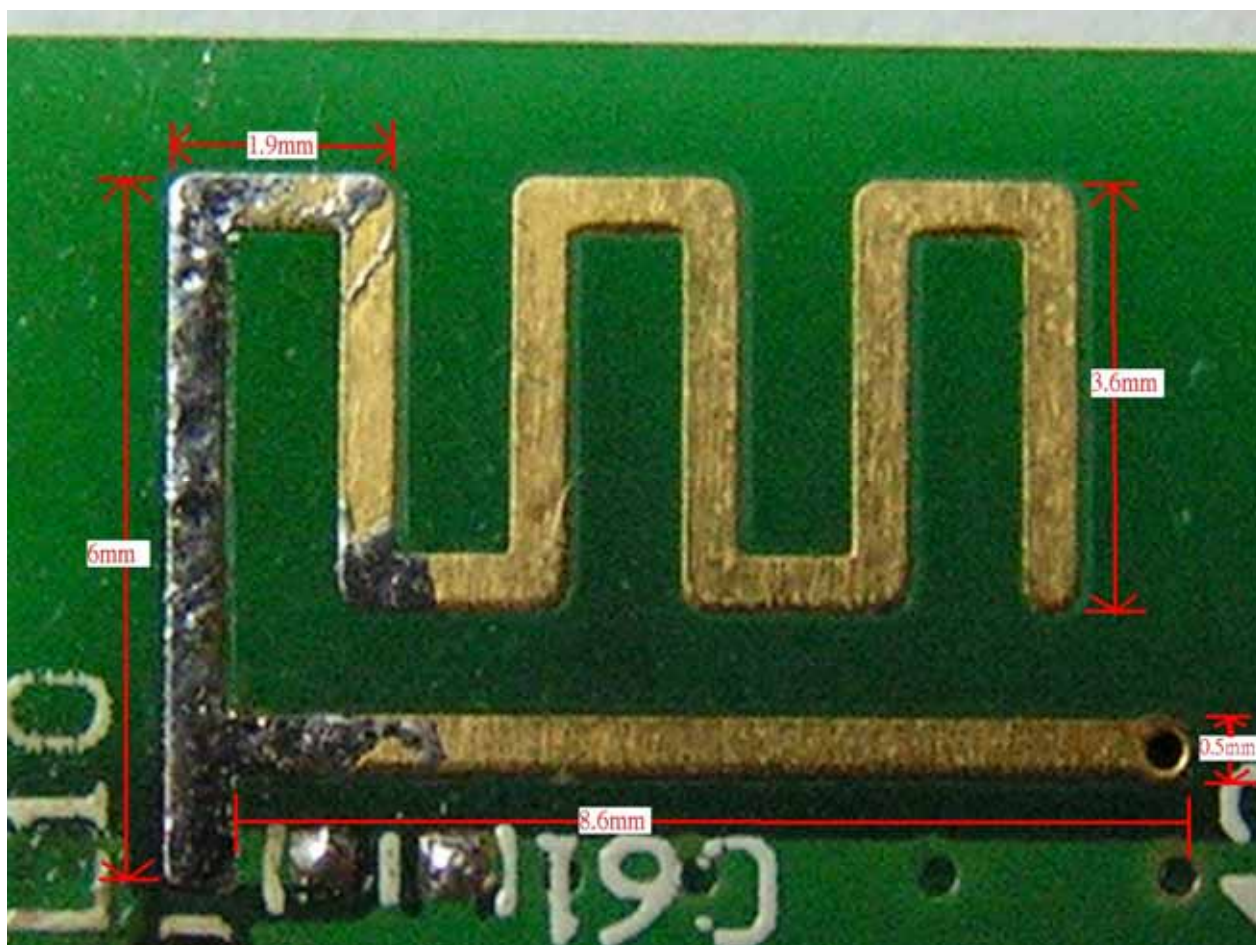
3.1.2 Test Procedures

1. The EUT was placed on the top of the turntable 1.5 meter on the fully chamber.
2. The phase center of the receiving antenna mounted on the top of an antenna tower was placed 3 meters far away from the turn table.
3. SG was connected to EUT by the cable and power level is 0dBm on operating frequency.
4. The turntable was rotated by 360 degrees to record the radiated power of each degree.
5. The EUT was replaced by the standard antenna for Gain calibration.

3.1.3 Test Setup Layout

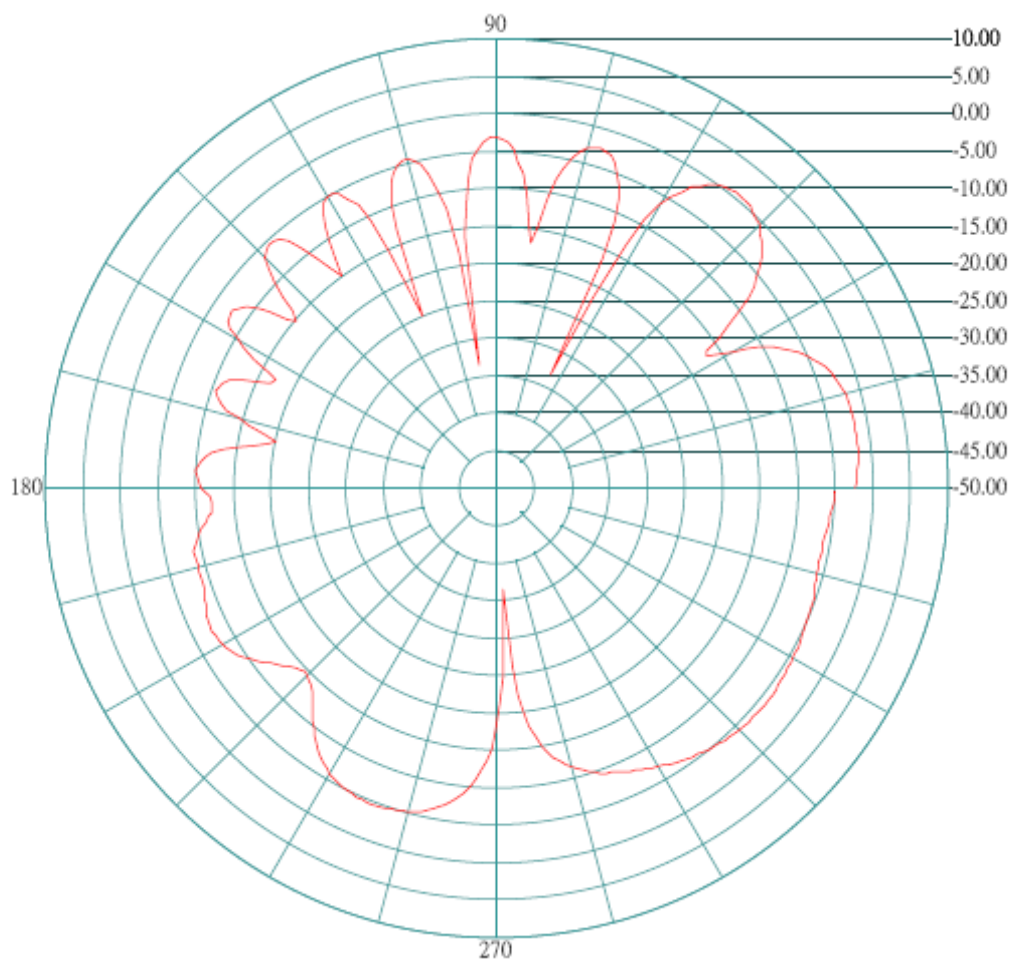


3.1.4 Antenna Configuration



3.1.5 Test Result of Antenna Pattern

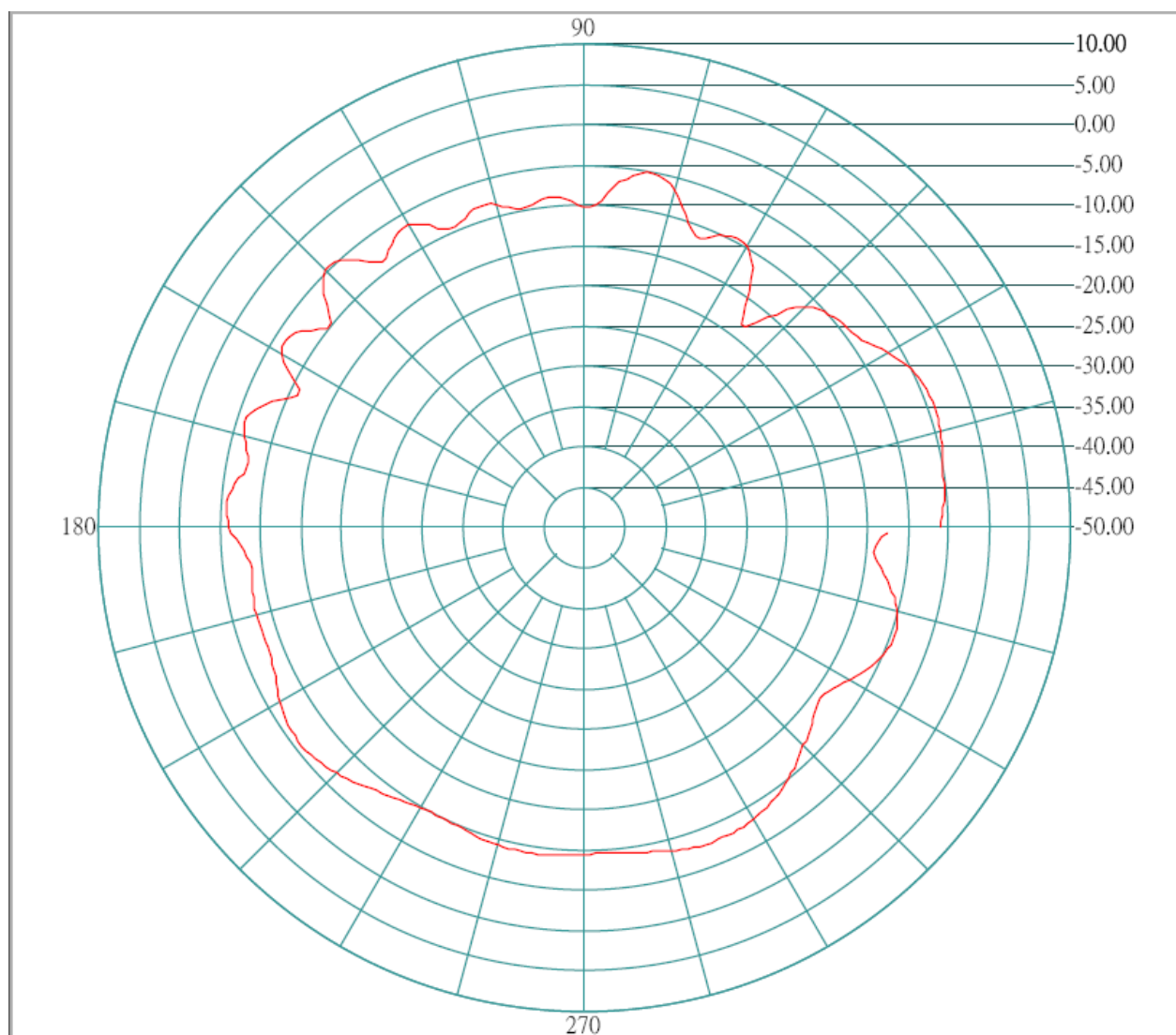
Test date	Mar. 11, 2009	Test Site No.	05CH01-HY
Temperature	26°C	Humidity	53%
Test Engineer	Vic	Polarization	Horizontal
Test Frequency	2450 MHz	Max Peak Gain	0.78 dBi



ANTENNA TEST REPORT

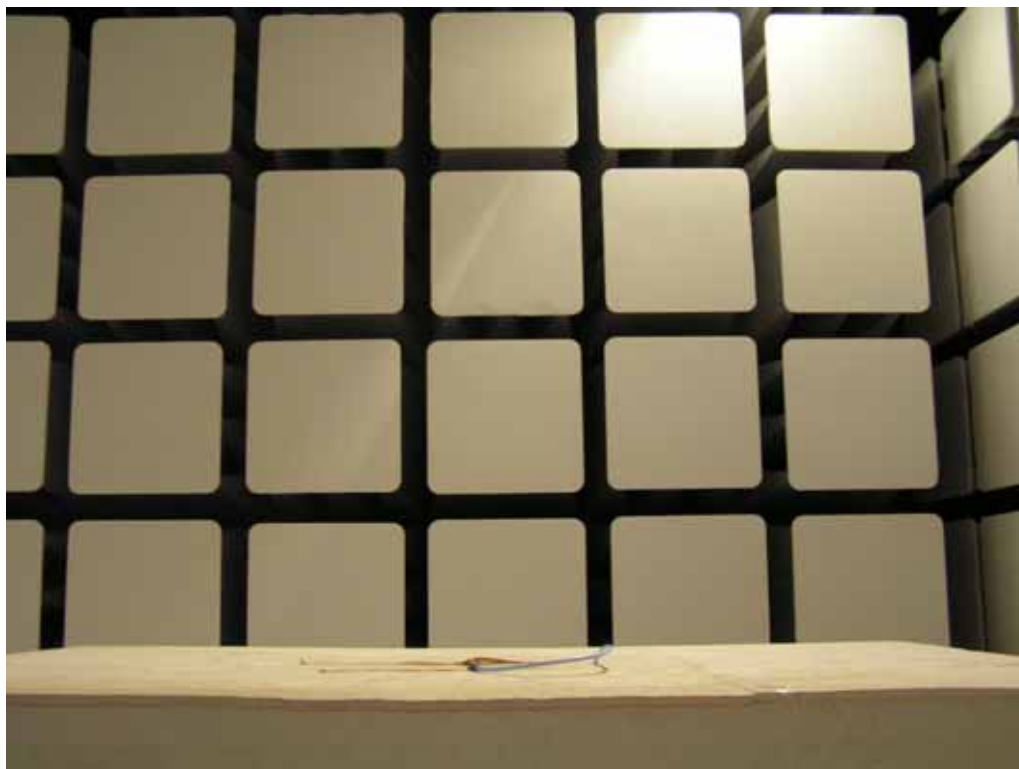
Report No.: AP8N1221

Test date	Mar. 11, 2009	Test Site No.	05CH01-HY
Temperature	26°C	Humidity	53%
Test Engineer	Vic	Polarization	Vertical
Test Frequency	2450 MHz	Max Peak Gain	-4.08 dBi

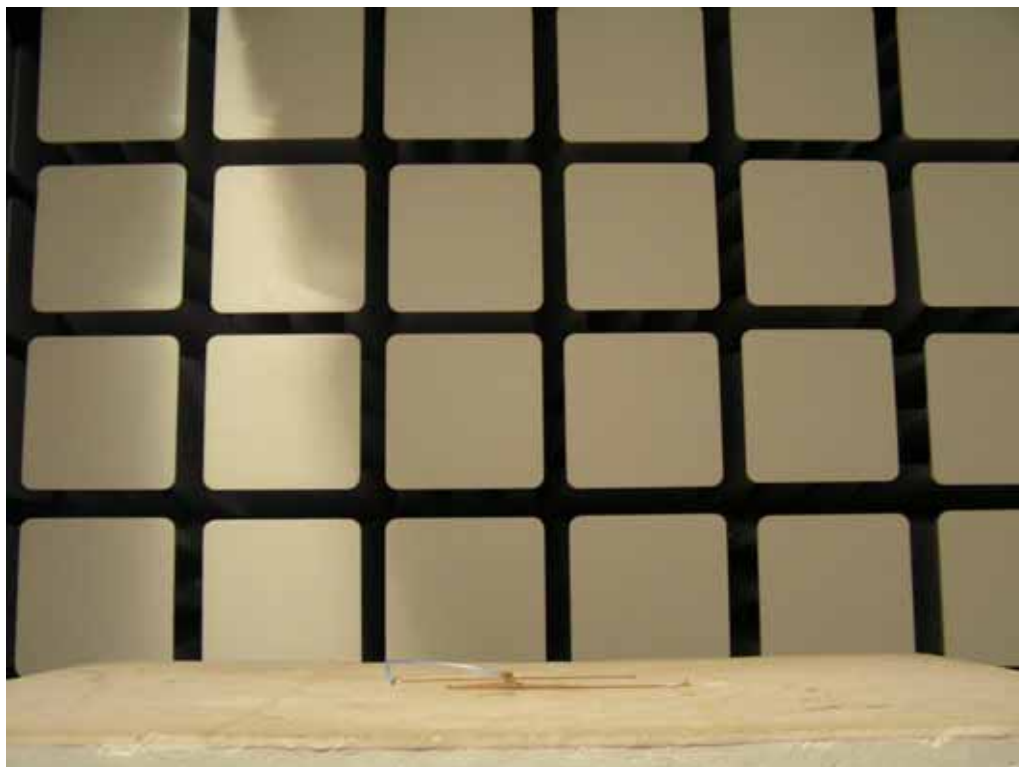


4 PHOTOGRAPHS OF RADIATED EMISSIONS TEST CONFIGURATION

FRONT VIEW



REAR VIEW



5 LIST OF MEASURING EQUIPMENTS

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Spectrum Analyzer	R&S	FSEK30	100189	9 kHz - 40GHz	Oct. 22, 2008	Radiation (05CH01-HY)
Amplifier	Agilent	8447D	2944A11149	100kHz ~ 1.3GHz	Jul. 07, 2008	Radiation (05CH01-HY)
Amplifier	Agilent	8449B	3008A02096	1GHz ~ 26.5GHz	Mar. 07, 2008	Radiation (05CH01-HY)
Bilog Antenna	SCHAFFNER	CBL6111C	2737	25MHz ~ 2GHz	Jul. 12, 2008	Radiation (05CH01-HY)
Horn Antenna	COM-POWER	AH-118	10091	1GHz ~ 18GHz	Jan. 16, 2009	Radiation (05CH01-HY)
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	Mar. 10, 2008	Radiation (05CH01-HY)
RF Cable-R03m	Jye Bao	RG142	CB031	30MHz ~1GHz	Sep. 30, 2008	Radiation (05CH01-HY)
RF Cable-HIGH	SUHNER	SUCOFLEX 106	05CH01-HY	1GHz~26.5GHz	Jan. 16, 2009	Radiation (05CH01-HY)
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170221	15GHz ~ 40GHz	Jan. 16, 2009	Radiation (05CH01-HY)
Turn Table	HD	DS 420	420/655/12	0 ~ 360 degree	N/A	Radiation (05CH01-HY)
Antenna Mast	HD	MA 240	240/569/12	1 m ~ 4 m	N/A	Radiation (05CH01-HY)

Note: Calibration Interval of instruments listed above is one year.

6 TEST LOCATION

SHIJR	ADD : 6Fl., No. 106, Sec. 1, Shintai 5th Rd., Shijr City, Taipei, Taiwan 221, R.O.C. TEL : 886-2-2696-2468 FAX : 886-2-2696-2255
HWA YA	ADD : No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL : 886-3-327-3456 FAX : 886-3-318-0055
LINKOU	ADD : No. 30-2, Dingfu Tsuen, Linkou Shiang, Taipei, Taiwan 244, R.O.C TEL : 886-2-2601-1640 FAX : 886-2-2601-1695
DUNGHU	ADD : No. 3, Lane 238, Kangle St., Neihu Chiu, Taipei, Taiwan 114, R.O.C. TEL : 886-2-2631-4739 FAX : 886-2-2631-9740
JUNGHE	ADD : 7Fl., No. 758, Jungjeng Rd., Junghe City, Taipei, Taiwan 235, R.O.C. TEL : 886-2-8227-2020 FAX : 886-2-8227-2626
NEIHU	ADD : 4Fl., No. 339, Hsin Hu 2 nd Rd., Taipei 114, Taiwan, R.O.C. TEL : 886-2-2794-8886 FAX : 886-2-2794-9777
JHUBEI	ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C. TEL : 886-3-656-9065 FAX : 886-3-656-9085