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District Guangzhou, China 510663

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Email sgs_internet_operations@sgs.com

Report No.: GLEMO060300519ITE

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TEST REPORT

Application No.: GLEMO060300519IT

Applicant: ISS MANUFACTURING LTD.

Equipment Under Test (EUT):

EUT Name: HEADSET WITH MICROPHONE, AUDIO SWITCH

Item No.: SPRO5001, SPRO5002, SPRO-5003

Serial No.: Not supplied by client

Standards: EN 61000-6-3 : 2001+A11:2004 & EN 61000-6-1 : 2001

Date of Receipt: 16 March 2006

Date of Test: N/A

Date of Issue 20 March 2006

Test Result : PASS*

* The EUT complies with the standards specified above as the product is under the EMC directive. Please refer to section 2 of this report for further details.

The CE mark as shown below can be used, under the responsibility of the manufacturer, after completion of an EC Declaration of Conformity and compliance with all relevant EC Directives

12 March 06

Jeff Zhao Manager

This report refers to the General Conditions for Inspection and Testing Services, printed overleaf

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the SGS PRODUCT CERTIFICATION MARK. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

ensure that all products in series production are in conformity with the product sample detailed in this report. This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government

All test results in this report can be traceable to National or International Standards



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2 Test Summary

Test	Test Requirement	Test Method	Class / Severity	Result
Emission	EN 61000-6-3 2001 +A11 2004	N/A	Clause 8 of EN 61000-6-3	N/A
Immunity	EN 61000-6-1 2001	N/A	Clause 8 of EN 61000-6-1	N/A

N/A not applicable Please refer to Section 5 & Section 6 for further details



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4 General Information

4.1 Client Information

Applicant

ISS MANUFACTURING LTD

Address of Applicant

UNIT 604-606, 6/F., PHASE II, CHAI WAN INDSUTRIAL CITY, 70 WING

TAI ROAD, CHAI WAN, HONGKONG

4.2 General Description of E.U.T.

EUT Name

HEADSET WITH MICROPHONE, AUDIO SWITCH

Item No

SPRO5001, SPRO5002, SPRO-5003

Serial No

Not supplied by client

4.3 Details of E.U.T.

Power Supply

- N/A-

Power Cord

- N/A-

4.4 Description of Support Units

N/A

4.5 Standards Applicable for Testing

The customer requested EMC tests for a HEADSET WITH MICROPHONE, AUDIO SWITCH

The standards used were EN 61000-6-3 (Emissions) & EN 61000-6-1 (Immunity)

Table 1: Tests Carried Out Under EN 61000-6-3:2001

	Status	
EN 55022 1998+A1 2000+A2 2003	Radiated Emissions	×
EN 55022 1998+A1 2000+A2 2003	Conducted Emissions on AC	×
EN 61000-3-2 2000	Harmonic Emissions on AC	×
EN 61000-3-3 1995 + A1 2001	Flicker Emissions on AC	×
EN 55014-1 2000 + A1 2001+A2 2002	Discontinuous Emissions on AC	×

Indicates that the test is not applicable

Note

The EUT contains no electronics at all and hence no tests need to be performed according to standard EN 61000-6-3



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Table 2: Tests Carried Out Under EN 61000-6-1:2001

Standard			Status
EN 61000-4-2	1995 + A1 1998+ A2 20	01 Electro-static discharge	×
EN 61000-4-3	2002+A1 2002	Radio frequency EM fields (80MHz to 1GHz)	×
EN 61000-4-4	1995+A1 2001+A2 2001	Fast transients	×
EN 61000-4-5	1995 +A1 2001	Surges	×
EN 61000-4-6	1996+A1 2001	Radio frequency continuous conducted (150kHz to 80MHz)	×
EN 61000-4-8	1993+A1 2001	Power-frequency magnetic field (50Hz)	×
EN 61000-4-11	1994+A1 2001	Voltage dips & interruptions	×

Indicates that the test is not applicable

Note The EUT contains no electronics at all and hence no tests need to be performed according to standard EN 61000-6-1

4.6 Test Location

All tests (if necessary) were performed at

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory, No 198 Kezhu Road, Science Town Economic& Technology, Development District, Guangzhou, China 510663

Tel +86 20 82155555

Fax +86 20 82075059

No tests were sub-contracted



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4.7 Test Facility

The test facility is recognized, certified, or accredited by the following organizations

NVLAP – Lab Code: 200611-0

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is recognized under the National Voluntary Laboratory Accreditation Program (NVLAP/NIST) NVLAP Code 200611-0 Effective through December 31, 2006

· ACA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation

VCCI

The 3m Semi-anechoic chamber and Shielded Room (11 5m x 4m x 4m) of SGS-CSTC Standards Technical Services Co. Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No. R-1599 and C-1706 respectively Date of Registration. June 01, 2005. Valid until February 22, 2008.

SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO
 Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES

CNAL - LAB Code: L0141

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAL/AC01 2002 accreditation criteria for testing laboratories (identical to ISO/IEC 17025 1999 General Requirements) for the Competence of Testing Laboratories

FCC – Registration No.: 282399

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002. With the above and NVLAP's accreditation, SGS-CSTC is an authorised test laboratory for the DoC process.

Industry Canada (IC)

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No. 5169

4.8 Deviation from Standards

None

4.9 Abnormalities from Standard Conditions

None

4.10 Monitoring of EUT for All Immunity Test

N/A



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5 Emission Test Results

Test Requirement

EN 61000-6-3

Test Method

N/A See Remark Below

There is no need for emission tests to be performed on this product in accordance with standard EN 61000-6-3. Since the EUT does not contain emission source circuit or component inside

For further details, please refer to clause 8 of EN 61000-6-3 which states

"It may be determined from consideration of the electrical characteristics and usage of a particular apparatus that some of the measurements are inappropriate and therefore unnecessary. In such a case it is required that the decision not to measure be recorded in the test report."

6 Immunity Test Results

Test Requirement

EN 61000-6-1

Test Method

N/A See Remark Below

There is no need for immunity tests to be performed on this product in accordance with standard EN 61000-6-1. Since the EUT does not contain electromagnetic susceptible electronic circuit or component inside.

For further details, please refer to clause 8 of EN61000-6-1 which states

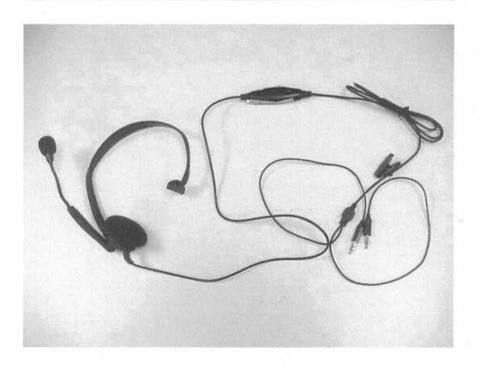
" It was determined from consideration of the electrical characteristics and usage of a particular apparatus that some of the tests are inappropriate and therefore unnecessary "



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7 Photographs – EUT Constructional Details

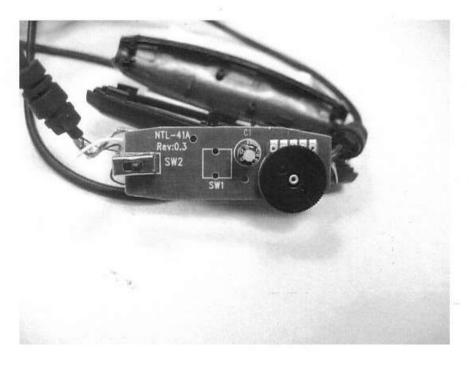






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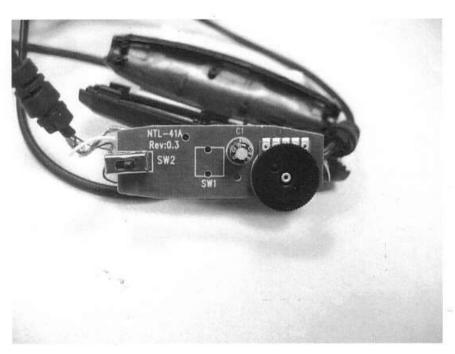






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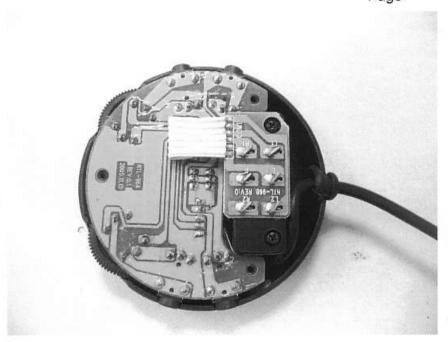
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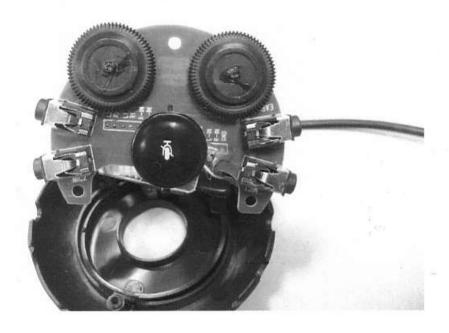






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EC Declaration of Conformity

Council Directive 2004/108/EC on Electromagnetic Compatibility

We, ISS MANUFACTURING LTD.
UNIT 604-606, 6/F., PHASE II, CHAI WAN INDSUTRIAL CITY, 70
WING TAI ROAD, CHAI WAN, HONGKONG

Certify that the product described is in conformity with the Directive 2004/108/EC as last amended by Directive 93/68/EEC

Product Name: HEADSET WITH MICROPHONE, AUDIO SWITCH

Item No.: SPRO5001, SPRO5002, SPR0-5003

The product has been assessed by the application of the following standards:

EN 61000-6-3 : 2001+A11:2004 & EN 61000-6-1 : 2001

Issue date Company stamp and Signature of authorized personnel



No.198 Kezhu Road, Science Town Economic& Technology Development District Guangzhou, China 510663

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sgs_internet_operations@sgs.com

VERIFICATION OF EMC COMPLIANCE

Verification No.: GLEMO060300519ITEV

Applicant: ISS MANUFACTURING LTD.

Address of Applicant: UNIT 604-606, 6/F., PHASE II, CHAI WAN

INDSUTRIAL CITY, 70 WING TAI ROAD, CHAI WAN,

HONGKONG

Product Description: HEADSET WITH MICROPHONE, AUDIO SWITCH

Model No: SPRO5001, SPRO5002, SPR0-5003

Sufficient samples of the product have been tested and found to be in conformity with

Test Standard: EN 61000-6-3: 2001+A11:2004 & EN 61000-6-1:

2001

As shown in the

Manager

Test Report Number(s): GLEMO060300519ITE

This verification of EMC Compliance has been granted to the applicant based on the results of the tests, performed by laboratory of SGS-CSTC Standards Technical Services Co , Ltd. on the sample of the above-mentioned product in accordance with the provisions of the relevant specific standards and Directive 2004/108/EC as last amended by Directive 93/68/EEC. The affixing of the CE marking presumes in addition that the conditions in annexes III and V of the Directive are fulfilled



Date 20 March 2006

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Member of the SGS Group (SGS SA)



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Applicant:

Newtech Electronics Ltd.

Unit 4-6, Phase II, Chai Wan Industry City 70 Wing Tai Road, Chaiwan, Hong Kong

Description of Samples:

Model name:

WEB CAMERA

Brand name:

MSN

Model no .:

MSNAR-0091

Date Samples Received:

2004-07-29

Date Tested:

2004-08-10 to 2004-08-27

Investigation Requested:

Test for EMC requirements of EN55022

(conducted emission only), EN55024, EN61000-

3-2 and EN61000-3-3.

Conclusions:

The submitted product <u>COMPLIED</u> with the requirements of EN55024: 1998 +A1: 2001 +A2: 2003, EN61000-3-2: 2000 and EN61000-3-3: 1995 +A1: 2001 and partially EN55022: 1998 +A1: 2000+A2: 2003 (conducted emission only), The EMC tests were performed in accordance with the standards described above and on

Section 2.2 in this Test Report.

Remarks:

for Chief E

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Appendix A

LIST OF MEASUREMENT EQUIPMENT

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Appendix B

Ancillary Equipment

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1.0 General Details

1.1 Test Laboratory

The Hong Kong Standards and Testing Centre Ltd. EMC Laboratory 10 Dai Wang Street, Taipo Industrial Estate New Territories, Hong Kong

Telephone:

852 2666 1888

Fax:

852 2664 4353

1.2 Applicant Details Applicant

Newtech Electronics Ltd. Unit 4-6, Phase II, Chai Wan Industry City 70 Wing Tai Road, Chaiwan, Hong Kong

HKSTC Code Number for Applicant

NEE006

Manufacturer

NTL Electronics Factory Building B22, The First Industry District, Feng Huang Village Fu Yong, Shenzhen, China



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1.3 Equipment Under Test [EUT]
Description of Sample

Model Name: WEB CAMERA
Manufacturer: NTL Electronics Factory
Brand Name: MSN
Model Number: MSNAR-0091
Rating: 230Va.c.

1.4 Date of Order

2004-07-29

1.5 Submitted Sample(s):

2 Samples

1.6 Test Duration

2004-08-10 to 2004-08-27

1.7 Country of Origin

CHINA

1.8 Additional Information of EUT

User Manual
Part List
Circuit Diagram
Printed Circuit Board [PCB] Layout
Block Diagram

Submitted	Not Available
\boxtimes	
H	
×	H
i	☒



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2.0 Technical Details

2.1 Investigations Requested

Perform ElectroMagnetic Interference [EMI] & ElectroMagnetic Susceptibility [EMS] tests

2.2 Test Standards and Results Summary Tables

Test Standards				
EN55022: 1998 +A1: 2000 +A2: 2003	Limits and methods of measurement of radio disturbance characteristics of information technology equipment.			
EN55024: 1998 +A1: 2001 +A2: 2003	Information technology equipment-Immunity Characteristics – Limits and method of measurement.			
EN61000-3-2: 2000	Electromagnetic compatibility, Part 3 limit. Section 2, limits for harmonic current emissions (equipment input current ≤16 A per phase.)			
EN61000-3-3: 1995 +A1: 2001	Electromagnetic compatibility (EMC) -Part 3: Limits - Section 3: Limitation of voltage fluctuations and flicker in low-voltage supply systems for equipment with rated current ≤16 A per phase			



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2.2 Test Standards and Results Summary Tables

EMISSION Results Summary						
Test Condition	Test Requirement	Test Method	Class / Severity	Pass	est Resul Failed	t N/A
* Radiated Emission, 30MHz to 1GHz	EN55022: 1998 +A1: 2000 +A2: 2003	EN55022: 1998 +A1: 2000 +A2: 2003	Class B			
Conducted Emission on AC, 150kHz to 30MHz	EN55022: 1998 +A1: 2000 +A2: 2003	EN55022: 1998 +A1: 2000 +A2: 2003	Class B			
Harmonics Emissions on AC Supply	EN61000-3-2: 2000	EN61000-3-2: 2000	Class A			
Voltage Fluctuations on AC Supply	EN61000-3-3: 1995 +A1: 2001	EN61000-3-3: 1995 +A1: 2001	N/A	×		

Remark: * - Test not performed as per request by customer



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2.2 Test Standards and Results Summary Tables

SUSCEPTIBILITY Results Summary						
Test Condition	Test Requirement	Test Method	Class /	Test Result		
			Severity	Pass	Failed	N/A
Electrostatic Discharge	EN55024: 1998 +A1: 2001 +A2: 2003	IEC61000-4-2: 1995	±4.0kV Cont ±8.0kV Air			
Radiated Immunity 80MHz to 1000MHz	EN55024: 1998 +A1: 2001 +A2: 2003	IEC61000-4-3: 2002 +A1: 2002	3V/m	⊠		
Electrical Fast Transients on AC Supply	EN55024: 1998 +A1: 2001 +A2: 2003	IEC61000-4-4: 1995 +A1: 2000 +A2: 2001	±1.0kV	×		
Surge Immunity on AC Supply	EN55024: 1998 +A1: 2001 +A2: 2003	IEC61000-4-5: 1995 +A1: 2001	±1.0kV ±2.0kV	×		
Continuous RF Immunity on AC Supply	EN55024: 1998 +A1: 2001 +A2: 2003	IEC61000-4-6: 2003	3.0Vrms	⊠		
Voltage Dips, Interruptions and Variations on AC Supply	EN55024: 1998 +A1: 2001 +A2: 2003	IEC61000-4-11; 2001	0%, 70% of U _τ			

N/A - Not Applicable

UT - The nominal supply voltage



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3.0 Test Results

3.1 Emission

3.1.1 Conducted Emissions (150kHz to 30MHz)

Test Requirement:

EN 55022

Test Method:

EN 55022

Level:

Class B

Test Date(s):

2004-08-12

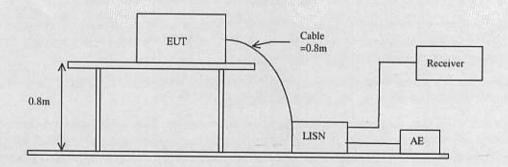
Mode of Operation:

On Mode (Connect to PC)

Test Method:

Initial measurements were performed in peak and average detection modes on the live line. Any emissions recorded within 30dB of the relevant limit lines were re-measured using quasi-peak and average detection on the live and neutral lines with the worst case recorded in the table of results. The test was performed in accordance with EN 55022.

Test Setup:





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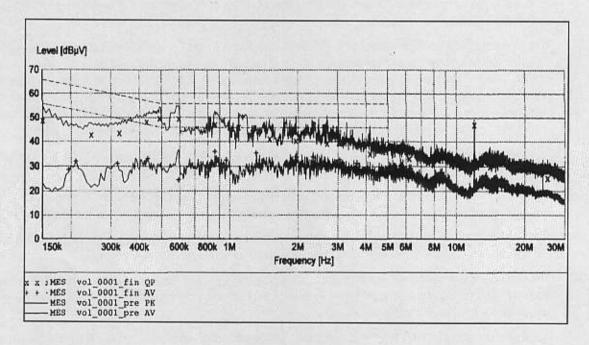
No.: HM152143

Results and limit lines for Conducted Emission:

Limits for Conducted Emission Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram.

Results: Pass

Please refer to the following diagram for individual results.



Remark:

Calculated measurement uncertainty: ±2.8dB



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3.1.2 Harmonics Emissions on AC Supply

Test Requirement:

EN 61000-3-2

Test Method:

EN 61000-3-2

Level:

Class A

Test Date(s):

2004-08-10

Mode of Operation: Input Voltage: On Mode (measure in PC)

230Va.c.

Test Method:

The test was performed in accordance with EN 61000-3-2.



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Results and limit line for Harmonics Emissions:

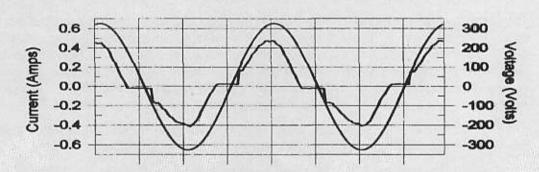
For limits for Harmonics Emission Test, please refer to limit line (dotted line) in the following diagram.

Results:

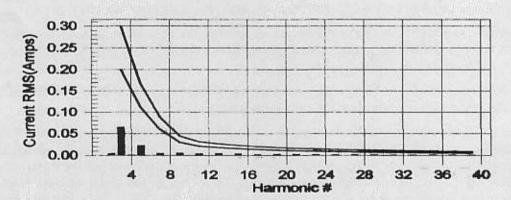
Pass

Please refer to the following table for individual results.

Current & voltage waveforms



Harmonics and Class D limit line European Limits



Remark:

Calculated measurement uncertainty: ±1.8dB



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3.1.3 Emission for Fluctuations & Flicker

Test Requirement:

EN 61000-3-3

Test Method:

EN 61000-3-3

Level:

N/A

Test Date(s):

2004-08-10

Mode of Operation:

On Mode (measure in PC)

Test Method:

The test was performed in accordance with EN 61000-3-3.



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Limits for Flicker:

Please refer to the result table for details.

Results: Pass

Please refer to the following table for individual results.

Maximum Occurring Levels:

Pst:	0.001	Limit =	1.0	(The Highest Short Term Flicker Value)
Plt:	0.001	Limit =	0.65	(The Highest Long Term Flicker Value)
dc(%):	0.00	Limit =	3.3%	(The Highest Relative Steady State Voltage Change (1sec))
dmax:	0.00	Limit =	4%	(The Highest Maximum Relative Voltage Change)
Tdt:	0.0	Limit =	500ms	(The Max Time (in milli-sec) that dt exceeds 3.3%)
Ut:	230.15			(EUT Test RMS Voltage)

Remark:

Calculated measurement uncertainty: ±1.8dB



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3.2 Immunity

3.2.1 Susceptibility Performance Criteria

A	Normal performance within the specification limits
В	Temporary degradation or loss of function or performance which is self-recoverable
С	Temporary degradation or loss of function or performance which requires operator intervention or system reset
D	Degradation or loss of function which is not recoverable due to damage of equipment (components) or software, or loss of data



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3.2.2 Electrostatic Discharge

Test Requirement:

EN 55024

Test Method:

IEC 61000-4-2

Severity:

±4kV for Direct & In-Direct Contact Discharge

±8kV for Air Discharge

Performance Criterion Requirement: B

Temperature:

23.0 °C

Humidity:

40.0 %

Atmospheric Pressure:

102.0 kPa

Test Date(s):

2004-08-12

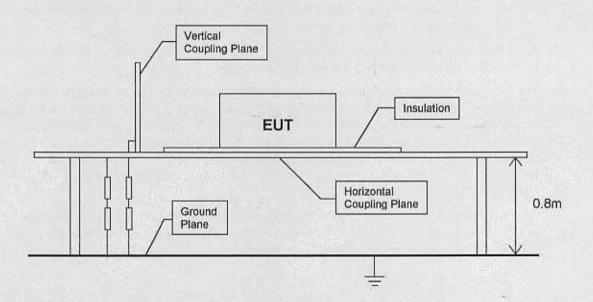
Mode of Operation:

On Mode

Test Method:

The test was performed in accordance with IEC 61000-4-2.

Test Setup:



香港新界大埔工業邨大宏街10號

10 Dai Wang Street, Taipo Industrial Estate, N. T., Hong Kong
Tel: (852) 2666 1888 Fax: (852) 2664 4353 Homepage: www.hkstc.org E-mail: hkstc@hkstc.org
For full text of "Conditions of Issuance of Test Reports", please refer to overleaf or refer to the website of
STC: www.hkstc.org (the section "Application and Quotation").



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Severity Levels for Electrostatic Discharge:

Level	Test Voltage Direct & In-Direct Contact Discharge	Test Voltage Air Discharge
1	±2kV	±2kV
2	±4kV	±4kV
3	±6kV	±8kV
4	±8kV	±15kV

Results: Pass

Please refer to the following table for individual results.

Location		Discharge Method	Toot Voltage	Individual Results	
			Test Voltage	Pass	Failed
HCP	[Horizontal Coupling Plane]	Indirect Contact	±4kV	\boxtimes	
VCP	[Vertical Coupling Plane]	Indirect Contact	±4kV		
3 Screw	/S	Direct Contact	±4kV		
Cable		Air	±8kV		
Enclosu	ire	Air	±8kV	\boxtimes	

Remark:

Calculated measurement uncertainty: ±0.4kV



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3.2.3 Radiated Immunity [80MHz to 1000MHz]

Test Requirement:

EN 55024

Test Method:

IEC 61000-4-3

Severity:

Level 2 [3V/m]

Modulation:

80% AM

Performance Criterion Requirement: A

Temperature:

22.0 °C

Humidity:

40.0 %

Atmospheric Pressure:

101.8 kPa

Test Date(s):

2004-08-12

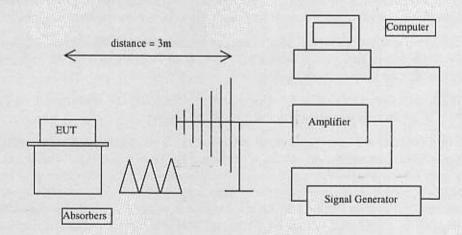
Mode of Operation:

On Mode

Test Method:

The test was performed in accordance with IEC 61000-4-3.

Test Setup:





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Severity Levels for Radiated Immunity:

Level	Field Strength [V/m]	
1	1 4 6	
2	3	
3	10	

Results:

Pass

Please refer to the following table for individual results.

Frequency	Face	Polarity	Level (V/m)	Dwell Time (s)	Sweep rate (%)	Individual Results	
(MHz)						Pass	Failed
80-1000	0°	Horizontal	3	3	1	⊠	
80-1000	90°	Horizontal	3	3	1	×	
80-1000	180°	Horizontal	3	3	1	\boxtimes	
80-1000	270°	Horizontal	3	3	1	×	日
80-1000	0°	Vertical	3	3	1	×	Π
80-1000	90°	Vertical	3	3	1		
80-1000	180°	Vertical	3	3	1	×	
80-1000	270°	Vertical	3	3	1	\boxtimes	

Remark:

Calculated measurement uncertainty: -1.3V/m (Negative Value), +3.7V/m (Positive Value)



Date: 2004-09-09

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3.2.4 Electrical Fast Transients on AC Supply

Test Requirement:

EN 55024

Test Method:

IEC 61000-4-4

Severity:

Level 2 on AC [±1kV]

Performance Criterion Requirement: B

Temperature:

23.0 °C

Humidity:

41.0 %

Atmospheric Pressure:

101.8 kPa

Test Date(s):

2004-08-12

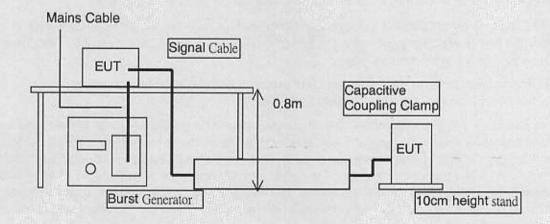
Mode of Operation:

On Mode

Test Method:

The test was performed in accordance with IEC 61000-4-4.

Test Setup:





Date: 2004-09-09

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Severity Levels for Electrical Fast Transient:

Level	On power su	ipply port, PE	On I/O (Input/Output) signal, data and control ports		
	Voltage peak [kV]	Repetition rate [kHz]	Voltage peak [kV]	Repetition rate [kHz]	
1	0.5	5.0	0.25	5.0	
2	1.0	5.0	0.50	5.0	
3	2.0	5.0	1.00	5.0	
4	4.0	2.5	2.00	5.0	
x	Customer F	Requirement	Customer Requirement		

Results: Pass

Please refer to the following table for individual results.

Conductor	Polarity & Level	Duration/Polarity (s)	Individual Results	
			Pass	Failed
Live	±1kV	120	×	
Neutral	±1kV	120		
Earth	±1kV	120		

Remark:

Calculated measurement uncertainty: ±0.14kV



Date: 2004-09-09

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3.2.5 Surge Immunity on AC Supply

Test Requirement:

EN 55024

Test Method:

IEC 61000-4-5

Severity:

Level 2 - ±1.0kV (between live & neutral) Level 3 - ±2.0kV (between live & earth) Level 3 - ±2.0kV (between earth & neutral)

Performance Criterion Requirement: B

Temperature:

22.0 °C

Humidity:

40.0 %

Atmospheric Pressure:

101.8 kPa

Test Date(s):

2004-08-12

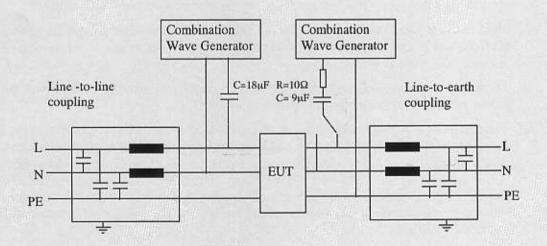
Mode of Operation:

On Mode

Test Method:

The test was performed in accordance with IEC 61000-4-5.

Test Setup:





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Severity Levels for Surge Immunity:

Level	Open-circuit test voltage ±10%
1	0.5 kV
2	1.0 kV
3	2.0 kV
4	4.0 kV

Results:

Pass

Please refer to the following table for individual results.

Conductor	Level &	No. of Surge	Phase	Surge	Individua	l Results
	Polarity		Angle	Interval	Pass	Failed
			0°			
Live - Neutral	±1.0kV	5	90°	60s		
			180°			
			270°			
	±2.0kV	5	0°	60s		
Live - Earth			90°			
1			180°			
			270°			
			0°	S. (III)		
Earth - Neutral	±2.0kV	5	90°	60s		
		15 8 15 15	180°		\boxtimes	
			270°			

Remark:

Calculated measurement uncertainty: ±0.23kV



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3.2.6 Continuous RF Immunity on AC Supply (150kHz to 80MHz)

Test Requirement:

EN 55024

Test Method:

IEC 61000-4-6

Severity:

Level 2 - 3Vrms(emf) with 80% 1kHz AM

Performance Criterion Requirement: A

Temperature:

22.0 °C

Humidity:

40.0 %

Atmospheric Pressure:

102.0 kPa

Test Date(s):

2004-08-12

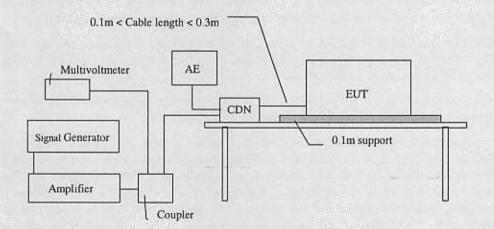
Mode of Operation:

On Mode

Test Method:

The test was performed in accordance with IEC 61000-4-6.

Test Setup:





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Severity Levels for Continuous RF Immunity:

Frequenc	y range 150kHz - 80MHz	
Level	Voltage level	(emf)
	U _o [dB(μV)]	U, [V]
	120	1
2	130	3
3	140	10

Results: Pass

Please refer to the following table for individual results.

Frequency	Level	Dwell Time	Sweep rate	Individual Results		
(MHz)	(V/m)	(s)	(%)	Pass	Failed	
150kHz - 80MHz	3.0Vrms	3	1			

Remark:

Calculated measurement uncertainty: ±2.3dB



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3.2.7 Voltage Dips, Interruptions and Variations on AC Supply

Test Requirement:

EN 55024

Test Method:

IEC 61000-4-11

Severity:

[0, 70]% of U_T

Performance Criterion Requirement:

B for 0% of U_T for 0.5 period C for other specifications

Temperature:

22.0 °C

Humidity:

43.0 %

Atmospheric Pressure:

101.8 kPa

Test Date(s):

2004-08-12

Mode of Operation:

On Mode

Test Method:

The test was performed in accordance with IEC 61000-4-11.



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Severity Levels for voltage dips, short interruptions and voltage variations

immunity:

Level	Voltage dip and short interruptions	Duration (period)
0	100	250
0	100	0.5
70	30	25

Results: Pass

Please refer to the following table for individual results.

Phase	Test Level (% of U _T)	Duration	Individual Results	
		(period)	Pass	Failed
0° followed by 180°	0	250	×	
*0° followed by 180°	0	0.5		
0° followed by 180°	70	25		

Calculated measurement uncertainty: ±30V

 U_T - The nominal supply voltage

End of Document

Temporary degradation or loss of function or performance which requires operator intervention or system reset.



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LIST OF MEASUREMENT EQUIPMENT

Radiated Emission

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL
EM007	SPECTRUM ANALYZER	HEWLETT PACKARD	HP85660B	3144A21192	15/06/04
EM008	SPECTRUM ANALYZER DISPLAY	HEWLETT PACKARD	HP85662A	3144A20514	15/06/04
EM009	QUASI PEAK ADAPTOR	HEWLETT PACKARD	HP85650A	3303A01702	15/06/04
EM010	RF PRESELECTOR	HEWLETT PACKARD	HP85685A	3221A01410	15/06/04
EM011	ATTENNUATOR/SWITCH	HEWLETT PACKARD	HP11713A	2508A10595	15/06/04
EM012	PRE-AMPLIFIER	HEWLETT PACKARD	HP8449B	3008A00262	15/06/04
EM013	CONTROLLER (COMPUTER), COLOR MONITOR, KEYBOARD & MOUSE FLOPPY DRIVE	HEWLETT PACKARD HEWLETT PACKARD HEWLETT PACKARD	HP9000 HP A1097C HP9133L	6226A60314 3151J39517 2623A02468	15/06/04
EM020	HORN ANTENNA	EMCO	3115	4032	30/07/03
EM022	LOOP ANTENNA	EMCO	6502	1189-2424	19/04/03
EM072	SIGNAL GENERATOR	HEWLETT PACKARD	8640B	1948A11892	N/A
EM083	HKSTC OPEN AREA TEST SITE	HKSTC	N/A	N/A	08/02/03
EM131	PORTABLE SPECTRUM ANALYSER	HEWLETT PACKARD	8595EM	3710A00155	13/01/04
EM145	EMI TEST RECEIVER	R&S	ESCS 30	830245/021	02/08/03
EM194	BICONILOG ANTENNA	EMCO	3142B	1795	14/05/02
EM195	ANTENNA POSITIONING MAST	EMCO	2075	2368	N/A
EM196	MULTI-DEVICE CONTROLLER	EMCO	2090	1662	N/A

Line Conducted

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL
EM078	VARIAC	SHANGHAI VOLTAGE	TDGC-3/0.5	N/A	CM
EM081	SMALL SCREENED ROOM	MIKO INST HK	N/A	N/A	17/10/03
EM119	LISN	R&S	ESH3-Z5	0831.5518.52	01/10/02
EM127	ISOLATION TRANSFORMER 220 TO 300	WING SUN	N/A	N/A	CM
EM142	PULES LIMITER	R&S	ESH3Z2	357.8810.52	07/07/03
EM181	EMI TEST RECEIVER	R&S	ESIB7	100072	06/01/04
EM154	SHIELDING ROOM	SIEMENA MATSUSHITA COMPONENTS	N/A	803-740-057- 99A	17/10/03
EM197	LISN	EMCO	4825/2	1193	08/04/03

Harmonics & Flicker

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL
EM040	POWER AMPLIFER	KIKUSUI	PCR 4000L	13080111	N/A
EM037	CONTROL CENTER (HARM & FLKR)	KEYTEK	ECAT	9510535	15/07/03
EM038	CONV, FIBER OPTIC - RS232 FOR ECAT	KEYTEK	FC-11	9510217	СМ
EM122	COMPUTER FOR ECAT SYSTEM, INC MONITOR, KEYBOARD & MOUSE	AST	ADVENTURE 2000	247GP400074 6	N/A



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Electro-Static Discharge

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL
EM051	THERMOHYGROMETER	SATO	SIGMA II NSII-Q	011010	09/10/03
EM102	VERTICAL COUPLING PLANE	HKSTC	N/A	N/A	CM
EM103	HORIZONTAL COUPLING PLANE	HKSTC	N/A	N/A	CM
EM086	QUARTZ BAROMETER	SATO	SIGMA II	35042	29/08/03
EM080	LARGE SCREENED ROOM	MIKO INST HK	N/A	N/A	17/10/03
EM158	ESD SIMULATOR	NOISEKEN	ESS-00L(A) TC-815P	2199C02603 2199C02569	30/09/03
EN178	CONDUCTED IMMUNITY TEST SYSTEM	SCHAFFNER	BEST EMC	200126-009SC	03/12/03

Radiated Immunity

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL
EM174	ANTENNA	EMCO	3142B	1671	07/08/03
EM031	ELECTRIC FIELD PROBE	HOLADAY	HE-4433-HSE	90590	26/08/03
EM035	POWER AMPLIFIER	KALMUS	7100LC-CE	7468-1	CM
EM058	FIBRE-OPTIC LEAD & DRUM	PPM	N/A	029	CM
EM059	COLOUR MONITOR FOR CCTV	FOR-TEC	N/A	VM140006585	CM
EM079	HUMIDITY & TEMPERATURE METER	AS	RS204072	998440	12/01/03
EM082	ANECHOIC CHAMBER	FELJAS & MASSON	N/A	N/A	19/09/03
EM086	QUARTZ BAROMETER	SATO	SIGMA II	35042	29/08/03
EM199	SIGNAL GERERATOR	R&S	SML02	100681	06/03/03
EM200	DUAL CHANNEL POWER METER	R&S	NRVD	100592	22/11/02
EM201	10V INSERTION UNIT	R&S	URV5-ZL	100089	20/11/02
EM202	10V INSERTION UNIT	R&S	URV5-ZL	100088	21/11/02
EM203	POWER AMP.	BONN	BLMA0820-50	025257	N/A
EM205	THERNO-HYGRO-WETTERSTATION	MIT FUNKGESTEWE RTER ZERTANZEIGE	N/A	N/A	28/11/03
EM206	ELECTRIC FIELD PROBE	EMCO	HI-6005	491198-48	21/02/03

Electrical Fast Transients

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL
EM047	COUPLING CLAMP	SCHAFFNER	CDN 126	0360	CM
EM048	FAST TRANSIENT GENERATOR	SCHAFFNER	NSG2025	1330	13/01/03
EM051	THERMOHYGROMETER	SATO	SIGMA II NSII-Q	011010	09/10/03
EM077	VARIAC	SHANGHAI VOLTAGE	TDGC-3/0.5	15839	CM
EM086	QUARTZ BAROMETER	SATO	SIGMA II	35042	29/08/03
EM080	LARGE SCREENED ROOM	MIKO INST HK	N/A	N/A	18/10/02
EN178	CONDUCTED IMMUNITY TEST SYSTEM	SCHAFFNER	BEST EMC	200126-009SC	03/12/03



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Conducted RF Immunity

EQP NO. DESCRIPTION		MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	
EM042	10V INSERTION UNIT	R&S	URV5-Z2	842558/023	18/09/03	
EM043	10V INSERTION UNIT	R&S	R&S URV5-Z2		18/09/03	
EM045	POWER METER	R&S	NRVD	843246/028	18/09/03	
EM095	RF MILLIVOLTMETER	TMETER R&S NRV3		871061/232	18/09/03	
EM097	10V INSERTION UNIT	R&S	URV-22	831040/157	CM	
EM104	DIRECTIONAL COUPLER	AR	DC3010		CM	
EM105	AMPLIFIER	AR	75A250	20875	CM	
EM108	50 OHM TERMINATION	M TERMINATION WEINSHELL 1424-4		16142	CM	
EM110	6DB PAD	WEINSHELL	33-06-34	BD4072	07/07/03	
EM113	CDN M2	MEB	M2-801	12100	04/07/03	
EM114	CDN M3	MEB	M3-801	12891	04/07/03	
EM121	SIGNAL GENERATOR	R&S .	SMT 02	1039.2000.02	17/07/03	
EM086	QUARTZ BAROMETER	SATO	SIGMA II	35042	29/08/03	
EM051	THERMOHYGROMETER	SATO	SIGMA II NSIFQ	011010	09/10/03	
EM080	LARGE SCREENED ROOM	MIKO INST HK	N/A	N/A	17/10/03	

Surge Immunity

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	
EM026	COMPUTER FOR DIPS & SURGE GENERATOR	AST	PREMIUM 2 486/33	N/A	CM	
EM051	THERMOHYGROMETER	SATO	SIGMA II	011010	09/10/03	
EM086	QUARTZ BAROMETER	SATO	SIGMA II	35042	29/08/03	
EM115	DIPS & SURGE GENERATOR	EMC PARTNER	DIPSRG51	TRA1000-202	19/03/03	
EM080	LARGE SCREENED ROOM	MIKO INST HK	N/A	N/A	17/10/03	

Voltage Dropouts

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	
EM122 COMPUTER FOR ECAT SYSTEM, IN MONITOR, KEYBOARD & MOUSE		AST	ADVENTURE 2000	247GP400074 6	N/A	
EM037	CONTROL CENTER (HARM & FLKR)	KEY TEK	ECAT	9510535	15/07/03	
EM038	CONV, FIBER OPTIC - RS232 FOR ECAT	KEYTEK	FC-11	9510217	CM	
EM040	POWER AMPLIFER	KIKUSUI	PCR 4000L	13080111	N/A	
EN178	CONDUCTED IMMUNITY TEST SYSTEM	SCHAFFNER	BEST EMC	200126-009SC	03/12/03	

Remarks:-

CM Corrective Maintenance

N/A Not Applicable or Not Available

TBD To Be Determined



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ANCILLARY EQUIPMENT

ITEM NO.	DESCRIPTION	MODEL NO.	FCC ID	REMARK
1	DELL COMPUTER	DMC	N/A	N/A
2	DELL AVGA MONITOR	E551C	ARSCM356N	RESOLUTION:800x600(DURING TESTING) 1.0M UNSHIEDED POWER CORD CONNECTED TO THE COMPUTER 2.8M SHIELDED CABLE CONNECTED TO THE COMPUTER
3	DELL KEYBOARD	SK-8110	N/A	1.8M SHIELDED COILED CABLE CONNECTED TO THE COMPUTER
4	DELL MOUSE	N/A	N/A	2.4M UNSHIELDED CABLE CONNECTED TO THE COMPUTER
5	PARALLEL PRINTER	DMP3000	DE2850CDMP3000	1.8M UNSHIELDED POWER CORD 2.8M SHIELDED CABLE (BUNDLED TO 1M) CONNECTED TO THE COMPUTER





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ISS MANUFACTURING LTD UNIT 604-606, 6/F, CHAIWAN INDUSTRIAL CITY, 70 WING TAI ROAD, CHAIWAN, HK

Report on 3 submitted samples said to be USB WEBCAMERA

PLASTIC WEB CAMERA WITH LIGHT & USB PLUG Detail of Sample Received

SPRO-5007 Item No

NTL ELECTRONICS FACTORY Manufacturer

Country of Origin CHINA

EUROPE Country of Destination

Labeled Age Grading 6+

: OVER 3 YEARS Age Group Applied in Testing

DEC 31, 2005 Sample Receiving Date Resubmitted Packaging Date JAN 23, 2006

Further Information Date : JAN 23, 2006

DEC 31, 2005 TO JAN 24, 2006 Testing Period

Result Test Requested

Although this is not a toy, SGS were requested to test for compliance with the European Standard on Safety of Toys .-

- EN71 Part 1 1998+A1,2001+A2: 2002+A4:2004+A5:2000+A6:2002+A7:2002+

A8:2003+A9:2004+A10:2004+A11 2004 - Mechanical and Physical Properties Pass

 EN71 Part 2 2003 – Flammability of Toys Pass

EN71 Part 3 1994 +A1:2000 - Migration of Certain Elements Pass

************* FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S)

Signed for and on behalf of SGS-CSTC Ltd

Zhang Ping, Helen

Li Ying, Susan

Supervisor Section Manager

HOKLAS Approved Signatories

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Results:

European Standard on Safety of Toys

- Mechanical and Physical Properties

AS SPECIFIED IN EUROPEAN STANDARD ON SAFETY OF TOYS EN71 PART 1: 1998 (includes amendment A1 2001, A2 2002, A4 2004, A5 2000, A6:2002, A7.2002, A8:2003, A9 2004, A10 2004, A11:2004)

Clause	Description	Result
4.5	General requirements	CS S
4.1	Material (by visual assessment)	Pass
4.5	Glass	Pass
4.7	Edges	<u>Pass</u>
4.8	Points and Wires	<u>Pass</u>
4 10	Parts moving against each other:	c5 c65
c 50	4 10.3 Hinges	N/AS
-G2 - G1	(Not applicable to products with a hinged part that has a mass less than 250g)	3 GG G
5	Toys intended for children under 36 months	CS CGD
5.1	General requirements	See Remark 1
37 SV	(Remark 1 : Plastic grain become detached as small part after test. It is acceptable because appropriate age warning was found on the packaging.)	3 505 5
7 5	Warnings and instructions for use	c5 c65
7.1	General Requirements	See Remark 2
35 SI	(Remark 2 : This is not a toy Therefore CE marking should not be shown on the product & its packaging.)	Street S
7.2	Toys not intended for children under 36 months	Pass
- Flammak	pility of Toys	SUCH SUS
AS SPECI	FIED IN EUROPEAN STANDARD ON SAFETY OF TOYS EN71 PART 2 2003	5 565 5
<u>Clause</u>	Description	Result
4.1	General Requirements	Pass

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- Migration of Certain Elements

AS SPECIFIED IN EUROPEAN STANDARD ON SAFETY OF TOYS EN71 PART 3 · 1994 (INCLUDES AMENDMENT A1:2000) - MIGRATION OF CERTAIN ELEMENTS. ANALYSIS WAS PERFORMED BY INDUCTIVELY COUPLED PLASMA ATOMIC EMISSION SPECTROMETER

Element	C.C.	1	2	3	4	<u>5</u>	<u>6</u>	7	Limit
Soluble Lead (Pb)		6	< 5	< 5	5< 5 d	< 5	< 5	< 5	90 mg/kg
Soluble Antimony	(Sb)	< 5	< 5	< 5	< 5	< 5	< 5	< 5	60 mg/kg
Soluble Arsenic	(As)	< 5	< 5	S 5	< 5	< 5	< 5	< 5	25 mg/kg
Soluble Barium	(Ba)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	1000 mg/kg
Soluble Cadmium	(Cd)	< 5	< 5	< 5	< 5	< 5	< 5	< 5	75 mg/kg
Soluble Chromium	(Cr)	< 5	< 5	< 5	< 5	< 5	< 5	< 5	60 mg/kg
Soluble Mercury	(Hg)	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6 7	60 mg/kg
Soluble Selenium	(Se)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	500 mg/kg

Specimen Description:

- 1 Black soft plastics (Pad)
- 2 Matt black plastics (Web camera)
- 3 Black plastics (Cable jacket)
- 4. Black plastics (SR & plug overmold)
- 5 Bright black plastics (Connector)
- 6 White plastics (Inner plug)
- 7. Transparent plastics (Lens)
- < = Less than</p>
- Results shown are of the adjusted analytical results
- Results of specimen 1-6 are copied from report No. SZTYR051208987/TS
- As received, the test portion of white coating on plastics is less than 10mg, therefore such components were not tested for migration of certain elements, as specified in the European Standard, EN71 part 3: 1994, Clause 7 – selection of test portions.
- N B · Only applicable clauses were shown
 - Photo Appendix is included.

*** End of Report ***

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Photo Appendix



SGS authenticate the photo on original report only

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Approved Signature

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