



## **TEST REPORT**

Report No. : AD021915-2 Date : 2004 February 27

Applicant : Sweda Limited  
8/F., Cheung Lung Ind. Bldg.,  
10 Cheung Yee Street, Cheung Sha Wan,  
Kowloon, Hong Kong.

Sample Description : One(1) submitted sample stated to be :  
Model Name : Digit T1/T2/T3  
Model No. : SSP18  
Rating : 2 x 1.5 V AA size batteries  
Testing Voltage : AC 120 V and 2 x 1.5 V  
No. of sample(s) : One(1) piece \*\*\*

Date Received : 2003 December 13.  
2004 January 07.

Test Period : 2003 December 13 – 2003 December 29.  
2004 January 07 – 2004 February 09.

Test Requested : FCC Part 15 Certification

Test Method : FCC Rules and Regulations Part 15 – July 2003  
ANSI C63.4 – 1992

Test Result : See attached sheet(s) from page 2 to 12.

Conclusion : The submitted sample was found to comply with requirement of FCC  
Part 15 Subpart B.

*For and on behalf of*  
CMA Testing and Certification Laboratories

Authorized Signature : \_\_\_\_\_

Danny Chui  
EMC Engineer - EL. Division

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FCC ID : RVX00101801



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### **1 General Information**

#### **1.1 General Description**

The equipment under test (EUT) is a digital camera. The EUT is powered by 3Vdc. (UM3-AA LR06 size batteries). The EUT has features : three resolution (800\*600, 1280\*960 and 1600\*1200) and movie function, with color LCD monitor, USB port output for upload images and PC camera mode, SD memory card compatibility, 4 x digital zoom, flash light ON, OFF or Auto select, TV video out (PAL or NTSC selectable), slide show on the LCD monitor or TV screen, Date / Time insert, auto power off (1, 2 minutes or no limits selectable), erase current photo erase all photos or format all datas.

Refer to the block diagram, the circuit description is listed as follows :

- Sensor and associated circuit act as clip photo image
- Strobe and associated circuit act as light source to photo clip
- Real Time Clock and associated circuit act as provide clip time to photo image
- USB and associated circuit act as camera and computer link
- TV out and associated circuit act as provide TV signal to TV
- DSP and associated circuit act as clip, display and storage photo images
- TFT display and associated circuit act as preview and playback photo images
- SDRAM and associated circuit act as storage temp photo and process
- Nand Flash and associated circuit act as storage program and photo images
- SD Card and associated circuit act as storage photo images
- Power Supply and associated circuit act as provide all circuits power

A brief circuit description is saved with filename Q93-F005OpDes.pdf

#### **1.2 Related Submittal Grants**

This is a single application for certification of a computer peripheral product.



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### **1.3 Location of the test site**

Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 1992. An Open Area Testing Site is set up for investigation and located at :

Top of the Roof, Yan Hing Centre,  
9 – 13 Wong Chuk Yeung Street,  
Fo Tan, Shatin,  
New Territories,  
Hong Kong.

Conducted emissions measurements are investigated and also taken pursuant to the procedures of ANSI C63.4 – 1992. A double shielded room is located at :

Roof Floor, Yan Hing Centre,  
9 – 13 Wong Chuk Yeung Street,  
Fo Tan, Shatin,  
New Territories,  
Hong Kong.



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### **1.4 List of measuring equipment**

Equipment	Manufacturer	Model No.	Serial No.	Calibration Certification No.
EMI Test Receiver	R&S	ESCS30	100001	S21141
Broadband Antenna	Schaffner	CBL6113B	2718	AC1753
Signal Generator	IFR	2023B	202302/938	Nil
LISN	R&S	ESH3-Z5	100038	S21142
LISN	R&S	ESH3-Z5	100010	20-70405
Pulse Limiter	R&S	ESH3-Z2	100001	20-73194
Biconical Antenna	R&S	HK116	837414/004	4000.7752.02



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### **1.5 List of Support Equipment**

1. Intel CPU PIII 800EB/256 cache/ 133MHz  
Model: L103A455-0041 SL4MB
2. Intel Mother Board  
Model: Intel Type: D815EEA
3. IBM Hard-disk  
Model: DTLA-30720, 20.5GB
4. Proview LCD Monitor  
Model: 568  
S/N: FYUJ240040133
5. IBM Mouse  
Model: 12J3618  
S/N: 23-005077
6. Acer Keyboard  
Model: 6511-VA
7. Hewlett Packard LaserJet 2100TN  
Model: C4172A  
S/N: SGGS038577
8. PenPower Handwriting System  
Model: PP403N  
S/N: PT9122239
9. USB Cable  
(Provide by applicant)



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### **2 Description of the radiated emission test**

#### **2.1 Test Procedure**

Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 1992.

The equipment under test (EUT) was placed on a non-conductive turntable with dimensions of 1.5m x 1m and 0.8m high above the ground. 3m from the EUT, a broadband antenna mounting on the mast received the signal strength. The turntable was rotated to maximize the emission level. The antenna was then moving along the mast from 1m up to 4m until no more higher value was found. Both horizontal and vertical polarization of the antenna were placed and investigated.

#### **2.2 Test Result**

All modes had been test. The measurement data were indicated in next page.

All other measurements were 20 dB below the 15.109 limits. Thus, those highest emissions were presented in next page (section 2.3).

It was found that the EUT meet the FCC requirement.



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### **2.3 Radiated Emission Measurement Data**

**Radiated emission  
pursuant to  
the requirement of FCC Part 15 subpart B**

Mode : Video mode

Frequency (MHz)	Polarity (H/V)	Reading at 3m (dB $\mu$ V/m)	Antenna and Cable factor (dB)	Field Strength (dB $\mu$ V/m)	Limit at 3m (dB $\mu$ V/m)	Margin (dB)
135.007	H	14.7	13.2	27.9	43.5	-15.6
189.013	H	22.3	10.5	32.8	43.5	-10.7
202.513	H	22.8	10.7	33.5	43.5	-10.0
229.515	H	23.9	10.7	34.6	46.0	-11.4
243.016	H	31.0	10.7	41.7	46.0	-4.3
256.516	H	25.6	13.9	39.5	46.0	-6.5
270.017	H	26.6	13.9	40.5	46.0	-5.5
378.023	H	15.8	15.3	31.1	46.0	-14.9
405.016	H	11.5	18.6	30.1	46.0	-15.9
445.516	H	13.0	18.6	31.6	46.0	-14.4





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### **2.3 Radiated Emission Measurement Data**

**Radiated emission  
pursuant to  
the requirement of FCC Part 15 subpart B**

Mode : PC connected

Frequency (MHz)	Polarity (H/V)	Reading at 3m (dBμV/m)	Antenna and Cable factor (dB)	Field Strength (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
189.013	H	19.4	10.5	29.9	43.5	-13.6
202.513	H	16.7	10.7	27.4	43.5	-16.1
216.014	H	17.5	10.7	28.2	46.0	-17.8
243.016	H	26.9	10.7	37.6	46.0	-8.4
256.517	H	18.5	13.9	32.4	46.0	-13.6
270.017	H	20.6	13.9	34.5	46.0	-11.5
297.019	H	14.8	13.9	28.7	46.0	-17.3
337.522	H	14.3	15.3	29.6	46.0	-16.4
378.025	H	15.9	15.3	31.2	46.0	-14.8
391.525	H	13.6	15.3	28.9	46.0	-17.1



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### **3 Description of the Line-conducted Test**

#### **3.1 Test Procedure**

Conducted emissions measurements are investigated and also taken pursuant to the procedures of ANSI C63.4 – 1992. The EUT was setup as described in the procedures, and both lines were measured.

#### **3.2 Test Result**

The PC connected mode had been tested. The EUT connecting with an USB cable and produced the maximum emission. The measurement data was indicated in next page.

The result showed that the EUT met the FCC requirement.

#### **3.3 Graph and Table of Conducted Emission Measurement Data**

For electronic filing, the document are saved with filename TestRpt 2.pdf



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### **4 Photograph**

#### **4.1 Photographs of the Test Setup for Radiated Emission and Conduction Emission**

For electronic filing, the photos are saved with filename TSup1.jpg to TSup5.jpg

#### **4.2 Photographs of the External and Internal Configurations of the EUT**

For electronic filing, the photos are saved with filename ExtPho1 to ExtPho2 and InPho1 to InPho6

### **5 Supplementary document**

The following document were submitted by applicant, and for electronic filing, the document are saved with the following filenames:

<b>Document</b>	<b>Filename</b>
ID Label/Location	LabelSmpl.pdf
Block Diagram	BlkDia.pdf
Schematic Diagram	Schem1.pdf to Schem3.pdf
Users Manual	UserMan.pdf
Operational Description	OpDes.pdf



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### **6 Appendices**

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A2.	Photos of the set-up of Conducted Emissions	2 pages
A3.	Photos of External Configurations	1 page
A4.	Photos of Internal Configurations	3 pages
A5.	Conducted Emission Measurement Data	1 page
A6.	ID Label/Location	2 pages
A7.	Block Diagram	1 page
A8.	Schematics Diagram	12 pages
A9.	User Manual	6 pages
A10.	Operation Description	1 page

\*\*\*\*\* End of Report \*\*\*\*\*