

FCCID: WFZSCND502E1233 Report Number: HST201006-2376-FCC-E

# **Test Report**

Applicant: EU3C Company Limited

Address of Unit 7, 8/F., Austin Tower, 22-26 Austin Avenue, Tsim Sha Tsui,

Applicant: Kowloon, Hong Kong

**Equipment Under Test (EUT):** 

EUT Name: FilmScan35 Modern Basic

Model No.: SCND502E1233

Serial No.: Not supplied by client

**Standards**: FCC PART15 SUBPART B: 2007

Date of Receipt: Jun. 12, 2010

**Date of Test**: Jun. 12, 2010 – Jun. 13, 2010

Date of Issue: Jun. 15, 2010

Test Result : PASS\*

\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Henly.xie / 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. The manufacturer should 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.

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.

The test report prepare by:

Guangzhou Huesent Testing Service Co., Ltd.

No.91, Dongguanzhuang Road, Guangzhou, China.

Tel: 86-20-28263298 Fax: 86-20-28263237 http://www.hst.org.cn E-mail:hst@hst.org.cn



## 2. Test Summary

Test Test Requirement		Test Method	Class / Severity	Result
Radiated Emission (30MHz to 1GHz)	FCC PART 15, SUBPART B: 2007	ANSI C63.4:2003	Class B	PASS
Conducted Emission (150KHz to 30MHz)	FCC PART 15, SUBPART B: 2007	ANSI C63.4:2003	Class B	PASS



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DINDUCTED EMISSION TEST SETUP

Report Number: HST201006-2376-FCC-E

#### 4. General Information

4.1 Client Information

Applicant: EU3C Company Limited

Address of Unit 7, 8/F., Austin Tower, 22-26 Austin Avenue, Tsim Sha Tsui,

Applicant: Kowloon, Hong Kong

4.2 General Description of E.U.T.

EUT Name: FilmScan35 Modern Basic

Trade Name: EU3C

Item No.: See the model number shown on cover page.

Serial No.: Not supplied by client

4.3 Details of E.U.T.

Power Supply: Via USB cable to the PC host Power Cord: 1.18 m USB cable with a core

CPU Operation 12MHz, and they are used as crystals in the PCB

Frequency

4.4 Description of Support Units

Samsung's Notebook (model: R463; Li Shin international enterprise corp.'s adapter: model: 0455A1990 AD-9019S, input: 100-240VAC1.5A, 50-60Hz, output: 10VDC4.74A) ).

4.5 Standards Applicable for Testing

The standard used was FCC PART 15, SUBPART B, CLASS B 2007

4.6 Test Location

Huesent Testing Service Ltd.

No. 91, Dongguanzhuang Road, Guangzhou City, Guangdong Province, P.R. China

Tel: 86-20-28263298 Fax: 86-20-28263237

All tests were witness tested in the laboratory following: CEPREI (headquarters) lab. No.110, Dongguanzhuang Road, Tianhe District, Guangzhou city, Guangdong Province, P.R. China

Tel: 86-20-87237178 Fax: 86-20-87236171 Email: emc@ceprei.biz

FCC- Registration No: 258518 on Mar 25, 2005

Test by Jietao Yan of CEPREI, the signature of representative of CEPREI:

4.8 Deviation from Standards

None.

4.9 Abnormalities from Standard Conditions

None.



# **5. Equipments Used during Test**

No.	Test item.	Name of Equipment's	Model/Type	Last Calibrated Date	
1	CE	EMI Receiver	R&S ESCS 30	2010-6-8	
2	CE	LISN	R&S ESH3-Z5	2010-6-8	
3	CE	Shielding Room	DG ZongZhou 5x3x3 m	2010-6-8	
4	RE	EMI Receiver	R&S ESCS 30	2010-6-8	
5	RE	Anechoic Chamber	Lindgren FACT-4	2010-6-8	
6			SCHAFFNER CBL6112B	2010-6-8	
Note:					
/					



#### 6. Test Results

6.1 Conducted Emissions Mains Terminals, 150 kHz to 30MHz

Test Requirement: FCC Part 15 B
Test Method: ANSI C63.4
Class / Severity: Class B

Detector: Peak for pre-scan (9kHz Resolution Bandwidth)

Quasi-Peak if maximised peak within 6dB of Quasi-Peak limit

Test Date: Jun. 12, 2010

#### 6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 20.0°C Humidity:60% RH Atmospheric Pressure: 103.0kPa

**EUT Operation:** 

1. Connect the EUT via an USB cable to a Notebook in 120VAC/60Hz.

2. Pre-test the EUT work normally in three modes: previewing/ scanning/ transmit data, then select the worst case: scanning mode to measure during the whole test.

#### 6.1.2 Plan View of Test Setup

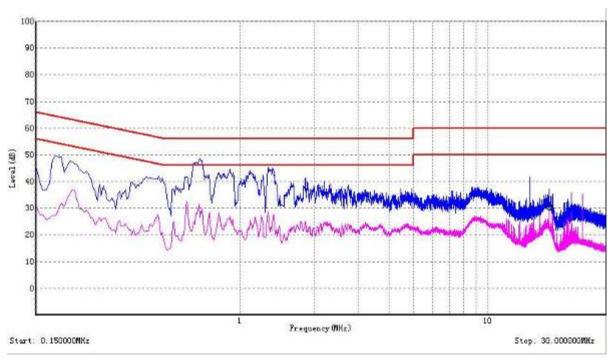
#### 6.1.3 Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with
maximized emission were detected when Peak measurement level is over Average Limit.



Live Line Peak Scan



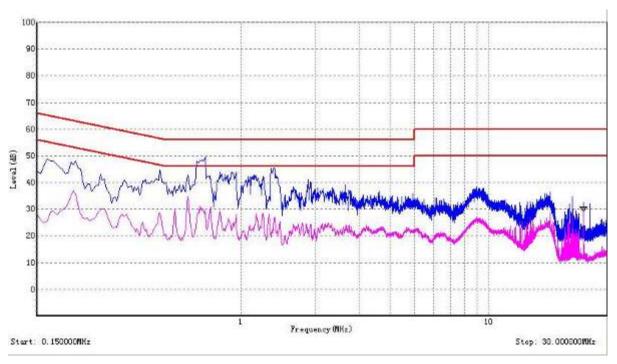
## **Quasi-peak and Average measurement**

Freq. (MHz)	Line	QP (dBµV)	Transd ucer (dB)	QP limit (dBµV)	Margin (dB)	ΑV (dBμV)	Transd ucer (dB)	AV limit (dBµV)	Margin (dB)
0.210	Live	47.39	11.28	63.25	15.86	37.08	11.28	53.25	16.17
0.455	Live	40.86	9.90	56.87	16.01	26.37	9.90	46.87	20.50
0.610	Live	41.67	9.70	56	14.33	32.70	9.70	46	13.30
3.200	Live	34.64	8.98	56	21.36	24.95	8.98	46	21.05
9.355	Live	36.29	8.72	60	23.71	26.25	8.72	50	23.75
17.70	Live	37.35	9.98	60	22.65	29.70	9.98	50	20.30



#### **Neutral Line**

#### **Peak Scan**



## **Quasi-peak and Average measurement**

Freq. (MHz)	Line	QP (dBµV)	Transd ucer (dB)	QP limit (dBµV)	Margin (dB)	ΑV (dBμV)	Transd ucer (dB)	AV limit (dBµV)	Margin (dB)
0.210	Neutral	46.62	11.28	63.25	16.63	36.86	11.28	53.25	16.39
0.345	Neutral	39.76	10.23	59.18	19.42	28.02	10.23	49.18	21.16
0.750	Neutral	40.06	9.60	56	15.94	30.90	9.60	46	15.10
2.245	Neutral	35.98	9.17	56	20.02	24.74	9.17	46	21.26
8.880	Neutral	35.87	8.66	60	24.13	26.95	8.66	50	23.05
24.02	Neutral	32.56	11.35	60	27.44	30.17	11.35	50	19.83



#### 6.2 Radiated Emissions, 30MHz to 1GHz

Test Requirement: FCC Part15 B
Test Method: ANSI C63.4
Class: Class B

Detector: Peak for pre-scan (120kHz resolution bandwidth)

Quasi-Peak if maximised peak within 6dB of limit

Test Date: Jun. 12, 2010

#### 6.2.1 E.U.T. Operation

Operating Environment:

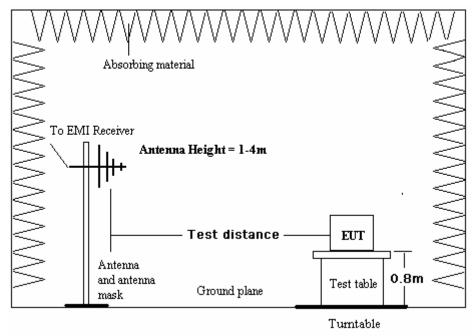
Temperature: 20°C Humidity:60% RH Atmospheric Pressure: 103.0kPa

**EUT Operation:** 

1. Connect the EUT via an USB cable to a Notebook in 120VAC/60Hz.

2. Pre-test the EUT work normally in three modes: previewing/ scanning/ transmit data, then select the worst cases: scanning mode and transmit data with PC host for final measurement during the whole test.

#### 6.2.2 Test Setup



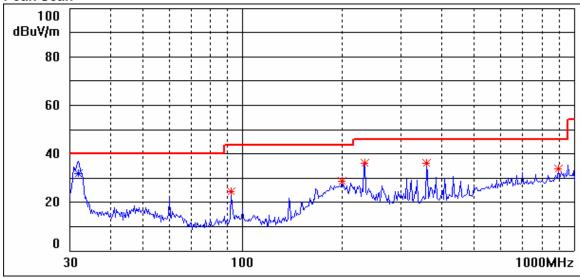
#### 6.2.3 Measurement Data

An initial pre-scan was performed in the 3m chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by Bilog antenna with 2 orthogonal polarities



#### Horizontal

#### **Peak Scan**



## Quasi-peak measurement

Frequency	Level	Transducer	Limit	Margin
MHz	dBuV/m	dB	dBuV/m	dB
32.0	31.9	17.2	40	8.1
92.2	24.2	10.1	43.5	19.3
199.2	28.7	12.0	43.5	14.8
233.1	36.3	13.6	46	9.8
360.0	36.2	17.9	46	9.8
899.4	33.8	27.5	46	12.2

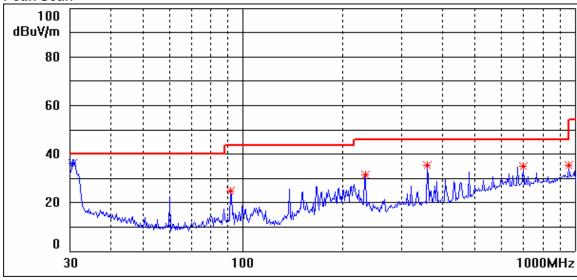
#### Note:

The transducer factor includes antenna factor and cable loss.



#### Vertical





## Quasi-peak measurement

Frequency	Level	Transducer	Limit	Margin
MHz	dBuV/m	dB	dBuV/m	dB
30.8	36.2	17.7	40	3.8
91.8	24.7	10.1	43.5	18.8
233.1	31.3	13.6	46	14.7
360.0	35.3	17.9	46	10.7
697.1	35.1	25.0	46	10.9
960.1	35.4	28.1	54	18.6

#### Note:

The transducer factor includes antenna factor and cable loss.



## 7. Photographs

## 7.1 Conducted Emission Test Setup







## 7.2 Radiated Emission Test Setup







## 7.3 EUT Constructional Details



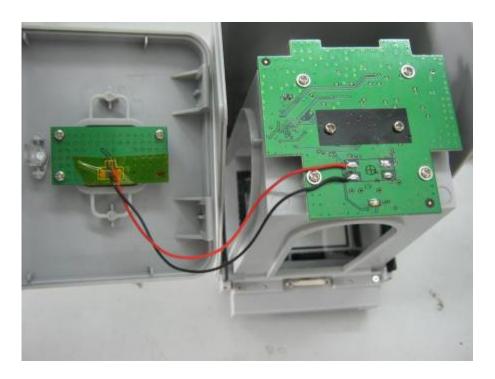






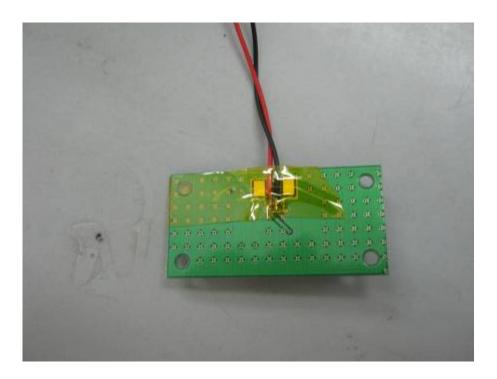


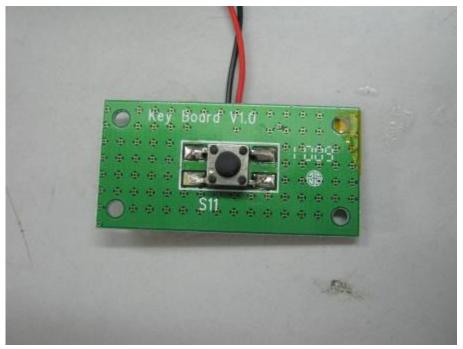
















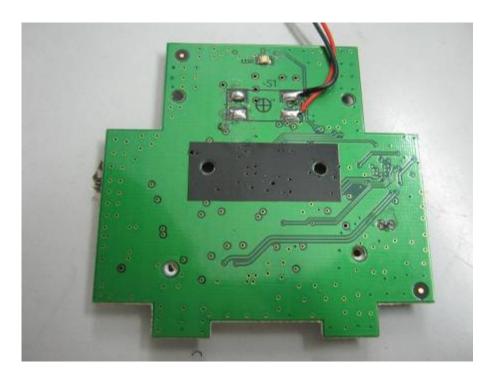








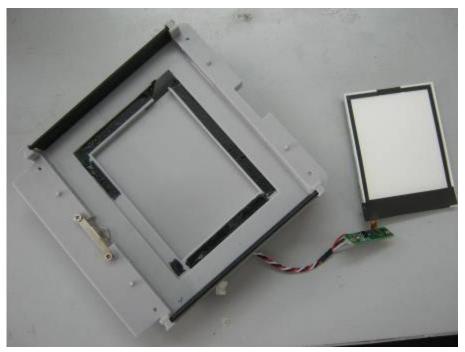




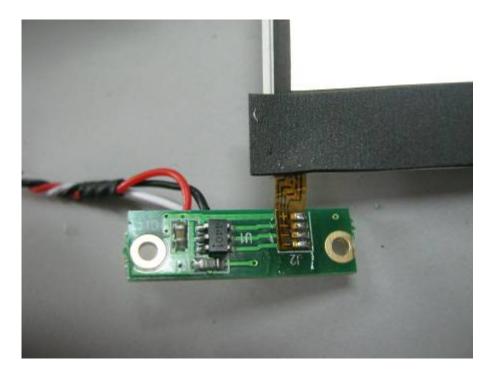


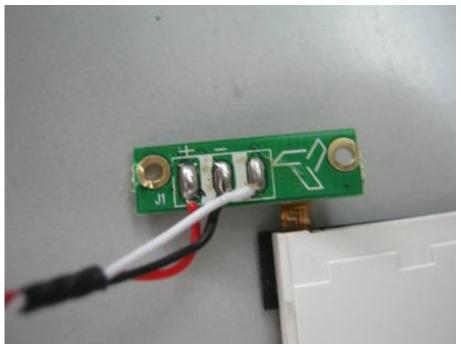


















\*\*\*End of Report\*\*\*