Most Technology Service Co., Ltd.
Tel:(86) 755-26825180 Fax:(86) 755-86170310
Http:// www. szmost.com Email: szmost@szmost.com

Test Report

Product Name: Digital Photo Frame

FCC ID: KXYPF8400

MODEL NO.: PF8400, PF8*** (the first * mean ID code, the second and third mean the customer's code, * can be 0-9)

Applicant:

China Great-Wall Computer Shenzhen Co., Ltd.
Science&Industry Park,Shenzhen,China

Date Received: 12/26/2009

Date Tested: 12/25/2009

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APPLICANT: China Great-Wall Computer Shenzhen Co., Ltd

FCC ID: KXYPF8400

TEST REPORT CONTAINING:

EXHIBIT INCLUDED:

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VERIFICATION OF CONFORMITY

Equipment Under Test:	Digital Photo Frame
Brand Name:	N/A
Model Number:	PF8400, PF8*** (the first * mean ID code, the second and third mean the customer's code, * can be 0-9)
FCC ID:	KXYPF8400
Applicant:	China Great-Wall Computer Shenzhen Co., Ltd. Science&Industry Park,Shenzhen,China
Manufacturer:	China Great-Wall Computer Shenzhen Co., Ltd. Science&Industry Park,Shenzhen,China
Technical Standards:	FCC Part 15 B
Date of test:	Dec. 25, 2009
Deviation:	None
Condition of Test Sample:	Normal

The above equipment was tested by MOST for compliance with the requirements set forth in FCC Part 15 and the Technical Standards mentioned above. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment and the level of the immunity endurance of the equipment are within the compliance requirements.

The test results of this report relate only to the tested sample identified in this report.

Tested By 

Candy Zhang Dec. 26, 2009

Checked By 

Sam Zhong Dec. 26, 2009

Authorized By 

Yvette Zhou Dec. 26, 2009

GENERAL INFORMATION

PRODUCT INFORMATION

Housing Type: Plastic

EUT Rating Voltage: DC 5V (with Adaptor AC 120V/60Hz)

Voltage During Test: DC 5V (with Adaptor AC 120V/60Hz)

I/O Type of EUT: DC POWER/Headphone/SD Card/USB/Mini USB

I/O Q'TY: 1/1/1/1/1

Model Number: PF8400

Series Number: PF8***

Description of Differences: the first * mean ID code, the second and third mean the customer's code, * can be 0-9

NOTE: Please refer to the photographs of the EUT. For a more detailed features description about the EUT, please refer to User's Manual.

OBJECTIVE

Perform FCC Part 15 Subpart B tests for FCC Marking.

TEST STANDARDS AND RESULTS

Test items and the results are as bellow:

EMISSION			
Test Item	**Standard**	**Limits**	**Results**
Conducted disturbance at mains terminals	FCC Subpart 15 B Section 15.107:2008	Class B	PASS
Radiated disturbance	FCC Subpart 15 B Section 15.109:2008	Class B	PASS
N/A is an abbreviation for Not Applicable.			

Note: 1. The test result judgment is decided by the limit of measurement standard
2. The information of measurement uncertainty is available upon the customer's request.

ENVIRONMENTAL CONDITIONS

During the measurement the environmental conditions were within the listed ranges:
- Temperature: 15-35°C
- Humidity: 30-60 %
- Atmospheric pressure: 86-106 kPa

MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in Measurement" (GUM) published by ISO.
- Uncertainty of Conducted Emission, Uc = ±1.25dB
- Uncertainty of Radiated Emission, Uc = ±3.15dB

TEST FACILITY

Test Site:	Most Technology Service Co.,ltd
Location:	No.5, Langshan 2nd Rd, North Hi-Tech Industrial park, Nanshan Shenzhen, Guangdong, China
Description:	There is one 3m semi-anechoic an area test sites and two line conducted labs for final test. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4 and CISPR 16 requirements. The FCC Registration Number is **490827.** The **CNAS** Registration Number is **CNAS L3573.**
Site Filing:	The site description is on file with the Federal Communications Commission, 7435 Oakland Mills Road, Columbia, MD 21046.
Instrument Tolerance:	All measuring equipment is in accord with ANSI C63.4 and CISPR 16 requirements that meet industry regulatory agency and accreditation agency requirement.
Ground Plane:	Two conductive reference ground planes were used during the Line Conducted Emission, one in vertical and the other in horizontal. The dimensions of these ground planes are as below. The vertical ground plane was placed distancing 40 cm to the rear of the wooden test table on where the EUT and the support equipment were placed during test. The horizontal ground plane projected 50 cm beyond the footprint of the EUT system and distanced 80 cm to the wooden test table. For Radiated Emission Test, one horizontal conductive ground plane extended at least 1m beyond the periphery of the EUT and the largest measuring antenna, and covered the entire area between the EUT and the antenna. It has no holes or gaps having longitudinal dimensions larger than one-tenth of a wavelength at the highest frequency of measurement up to 1GHz.

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Equipment List

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
EMI Test Receiver	ROHDE&SCHWARZ	ESCI	100492	Mar 10,2009	1 Year
LISN	ROHDE&SCHWARZ	ENV216	100093	Mar 10,2009	1Year
EMI Test Receiver	ROHDE&SCHWARZ	ESCI	101202	Mar 10,2009	1 Year
Spectrum Analyzer	ANRITSU	MS2651B	6200238316	Mar 10,2009	1 Year
50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200283933	Mar 10,2009	1 Year
Bilog Antenna	Sunol	JB3	A121206	Mar 10,2009	1 Year
Horn Antenna	EMCO	3115	640201028-06	Mar 10,2009	1 Year
50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200283933	Mar 10,2009	1 Year
Cable	Resenberger	N/A	NO.1	Mar 10,2009	1 Year
Cable	SCHWARZBECK	N/A	NO.2	Mar 10,2009	1 Year
Cable	SCHWARZBECK	N/A	NO.3	Mar 10,2009	1 Year
Single Phase Power Line Filter	Kikusui	LIN40MA-PCR-L	LM002352	Mar 10,2009	1 Year
AC Power Source	Kikusui	AC40MA	LM003232	Mar 10,2009	1 Year
Test analyzer	Kikusui	KHA1000	LM003720	Mar 10,2009	1 Year
ESD Tester	Kikusui	KES4021	LM003537	Mar 10,2009	1 Year
Signal Generator	IFR	2032	203002/100	Mar 10,2009	1 Year
Amplifier	A&R	150W1000	301584	NCR	NCR
Dual Directional Coupler	A&R	DC6080	301508	Mar 10,2009	1 Year
Power Head	A&R	PH2000	301193	Mar 10,2009	1 Year
Power Meter	A&R	PM2002	302799	Mar 10,2009	1 Year
Field Monitor	A&R	FM5004	300329	Mar 10,2009	1 Year
Field Probe	A&R	FP5000	300221	Mar 10,2009	1 Year
EMCPRO System	EM Test	UCS-500-M4	V0648102026	Mar 10,2009	1 Year
EMCPRO System	EM Test	UCS-500-M4	V0648102026	Mar 10,2009	1 Year

TEST PROCEDURE

GENERAL: This report shall NOT be reproduced except in full without the written approval of MOST TECHNOLOGY SERVICE CO., LTD. The EUT was transmitting a test signal during the testing.

POWER LINE CONDUCTED INTERFERENCE: The test procedure used was ANSI Standard C63.4-2003 using a 50 u H LISN. Both Lines were observed. The bandwidth of the receiver was 10kHz with an appropriate sweep speed. The ambient temperature of the EUT was 25 ℃ with a humidity of 58%.

RADIATION INTERFERENCE: The test procedure used was ANSI Standard C63.4-2003 using a ANRITSU spectrum analyzer with a pre-selector. The analyzer was calibrated in dB above a micro volt at the output of the antenna. The resolution bandwidth was 100 kHz and the video bandwidth was 300 kHz up to 1 GHz and 1 MHz with a video BW of 3 MHz above 1 GHz. The ambient temperature of the EUT was 25℃ with a humidity of 58%.

FORMULA OF CONVERSION FACTORS: The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBuV) to the antenna correction factor supplied by the antenna manufacturer and cable loss. The antenna correction factors and cable loss are stated in terms of dB. The gain of the Pre-selector was accounted for in the Spectrum Analyzer Meter Reading.

Example:
Freq (MHz) METER READING + ACF + CABLE = FS
33 20 dBuV + 10.36 dB + 0.9 dB= 31.26 dBuV/m @ 3m

ANSI STANDARD C63.4-2003 10.1.7 MEASUREMENT PROCEDURES: The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m. The EUT was placed in the center of the table (1.5m side). The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to 10th harmonic of the fundamental.

Peak readings were taken in three (3) orthogonal planes and the highest readings were converted to average readings based on the duration of "ON" time.

When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.

The situation was similar for the conducted measurement except that the table did not rotate. The EUT was setup as described in ANSI Standard C63.4-2003 10.1.7 with the EUT 40 cm from the vertical ground wall.

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LINE CONDUCTED EMISSION TEST

APPLICANT: China Great-Wall Computer Shenzhen Co., Ltd

FCC ID: KXYPF8400

NAME OF TEST: POWER LINE CONDUCTED INTERFERENCE

RULES PART NUMBER: 15.107

REQUIREMENTS:

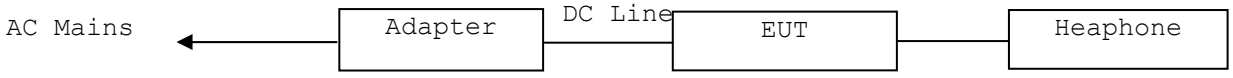
Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

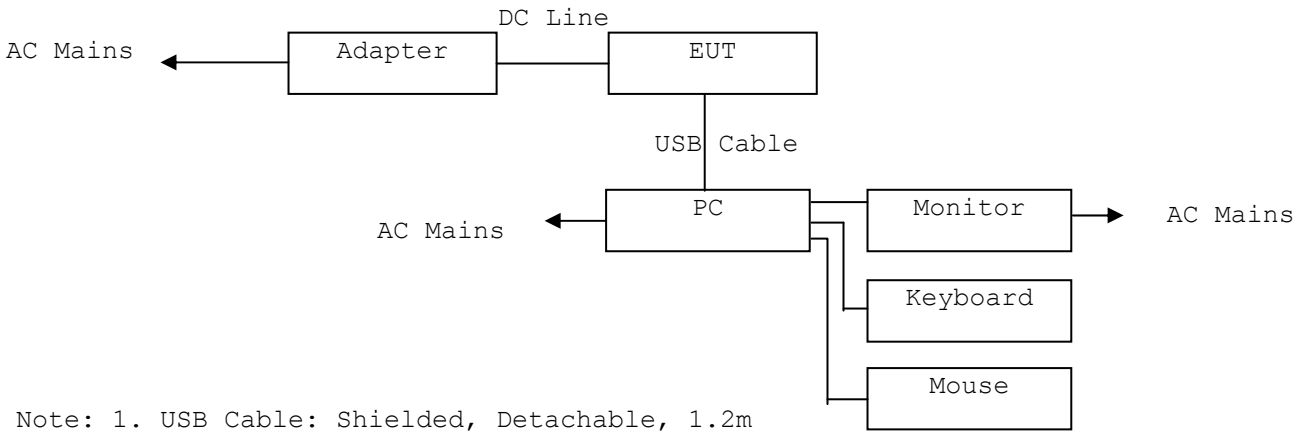
TEST PROCEDURE: ANSI STANDARD C63.4-2003

BLOCK DIAGRAM OF TEST SETUP:

Test Mode: SD Playing/USB Playing



Test Mode: Data Transmitting



Note: 1. USB Cable: Shielded, Detachable, 1.2m
2. DC Line: Unshielded, Undetachable, 1.5m
3. Adaptor: Manufacturer: ATeR M/N: SW013UF-0500200EU

Test Result:

Test Mode: SD Playing

Frequency (MHz)	Line Under Test	Emission Level (dBuV/m)		FCC 15 Subpart B Limit (dBuV/m)Avg	FCC 15 Subpart B Limit (dBuV/m)QP
		Avg	QP		
0.794	L	26.65	37.30	46.00	56.00
3.990	L	28.63	42.34	46.00	56.00
4.530	L	33.34	45.38	46.00	56.00
0.798	N	30.49	39.48	46.00	56.00
4.574	N	24.49	39.89	46.00	56.00
5.098	N	29.49	40.08	46.00	56.00

Note: 1. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary

Test Mode: USB Playing

Frequency (MHz)	Line Under Test	Emission Level (dBuV/m)		FCC 15 Subpart B Limit (dBuV/m)Avg	FCC 15 Subpart B Limit (dBuV/m)QP
		Avg	QP		
1.902	L	26.56	35.37	46.00	56.00
2.446	L	27.46	35.49	46.00	56.00
4.610	L	29.01	37.36	46.00	56.00
0.803	N	30.05	41.02	46.00	56.00
1.280	N	26.47	37.50	46.00	56.00
4.480	N	30.23	44.11	46.00	56.00

Note: 1. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary

Test Mode: Data Transmitting

Frequency (MHz)	Line Under Test	Emission Level (dBuV/m)		FCC 15 Subpart B Limit (dBuV/m)Avg	FCC 15 Subpart B Limit (dBuV/m)QP
		Avg	QP		
0.216	L	30.97	39.52	46.00	56.00
1.302	L	29.62	39.02	46.00	56.00
0.490	L	33.22	36.29	46.00	56.00
0.770	N	31.60	40.35	46.00	56.00
2.854	N	30.81	40.02	46.00	56.00
4.602	N	31.30	42.03	46.00	56.00

Note: 1. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary

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RADIATED EMISSION TEST

APPLICANT: China Great-Wall Computer Shenzhen Co., Ltd

FCC ID: KXYPF8400

NAME OF TEST: RADIATION INTERFERENCE

RULES PART NUMBER: 15.109

REQUIREMENTS:

S15.109
30 -88 MHz 40 dBuV/m @3M
88 - 216 MHz 43.5
216 - 960 MHz 46
ABOVE 960 MHz 54dBuV/m

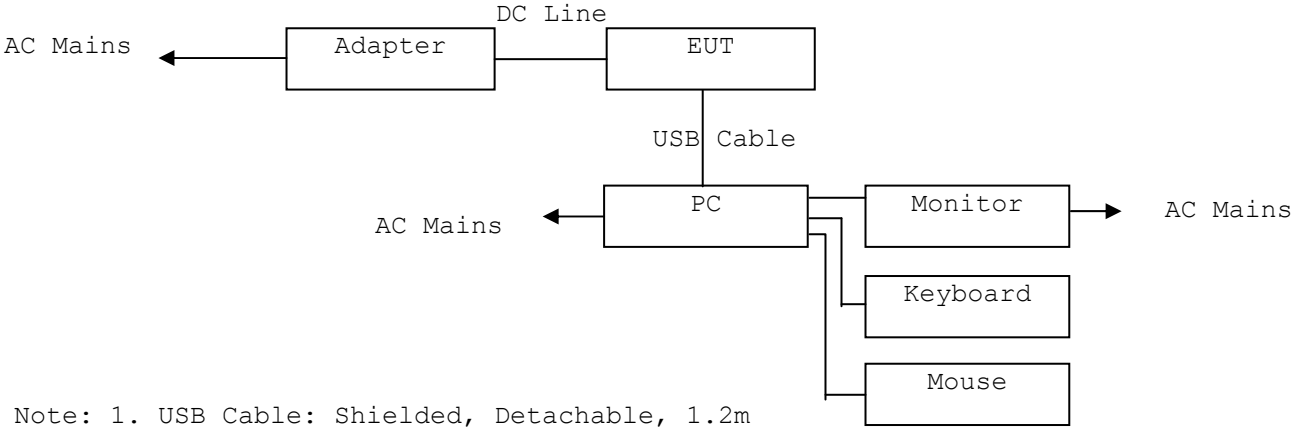
Test Data:

REMARK: Emissions attenuated more than 20 dB below the permissible value are not reported.

BLOCK DIAGRAM OF TEST SETUP:

Test Mode: SD Playing/USB Playing

Test Mode: Data Transmitting



Note: 1. USB Cable: Shielded, Detachable, 1.2m
2. DC Line: Unshielded, Undetachable, 1.5m
3. Adaptor: Manufacturer: ATeR M/N: SW013UF-0500200EU

Test Result:

Test Mode: SD Playing

Frequency (MHz)	Antenna Polarization	Emission Level (dBuV/m)			FCC 15 Subpart B Limit (dBuV/m)
		Avg	QP	Peak	
32.90	Horizontal	--	37.08	--	40.0
428.67	Horizontal	--	41.02	--	46.0
500.50	Horizontal	--	41.59	--	46.0
571.26	Horizontal	--	34.17	--	46.0
35.82	Vertical	--	33.95	--	40.0
62.98	Vertical	--	31.12	--	43.5
115.36	Vertical	--	30.31	--	46.0
321.00	Vertical	--	2280	--	46.0
Memo:					

Test Mode: USB Playing

Frequency (MHz)	Antenna Polarization	Emission Level (dBuV/m)			FCC 15 Subpart B Limit (dBuV/m)
		Avg	QP	Peak	
34.85	Horizontal	--	35.20	--	40.0
111.48	Horizontal	--	24.79	--	43.5
428.67	Horizontal	--	40.70	--	46.0
500.45	Horizontal	--	41.77	--	46.0
35.82	Vertical	--	34.65	--	40.0
61.04	Vertical	--	31.15	--	40.0
498.51	Vertical	--	36.41	--	46.0
571.26	Vertical	--	31.63	--	46.0
Memo:					

Test Mode: Data Transmitting

Frequency (MHz)	Antenna Polarization	Emission Level (dBuV/m)			FCC 15 Subpart B Limit (dBuV/m)
		Avg	QP	Peak	
34.82	Horizontal	--	36.19	--	40.0
109.52	Horizontal	--	26.80	--	43.5
428.67	Horizontal	--	41.71	--	46.0
467.45	Horizontal	--	39.69	--	46.0
35.82	Vertical	--	33.72	--	40.0
59.84	Vertical	--	32.36	--	40.0
432.50	Vertical	--	35.39	--	46.0
371.18	Vertical	--	32.23	--	46.0
Memo:					