



EMC - Test Report

Model : KDC-100**FCC ID**

NIZKDC-100

Product type

Digital Still Camera + USB PC Camera

Serial No.

-

Applicant

Korea Communications Co., Ltd.

Address

53B/4LT, Namdong-Industrial Zone, Namdong-Gu, Incheon, Korea 405-300

Manufacturer

Korea Communications Co., Ltd.

Address

53B/4LT, Namdong-Industrial Zone, Namdong-Gu, Incheon, Korea 405-300

Test specification (Standard) : FCC Part15 Subpart B Class B**Test Result** : In complianceTested by
(Test engineer)

2000-11-29 Young Joon, Park

Date

Name

Signature

Reviewed by
(EMC Manager)

2000-11-29 James. Hong

Date

Name

Signature

Definition☒ : Applicable, ☐ : Not Applicable, N/A : Not Applicable, - : Not Applicable

The test result only responds to the tested sample.

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CERTITEK STANDARDS LABORATORY CO., LTD.



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1. EUT description

Introduction

KDC-100 is a Digital Still Camera + USB PC Camera.

Identification

Receipt date : 2000-11-13

Model : KDC-100

Manufacturer : Korea Communications Co., Ltd.

Address : 53B/4LT, Namdong-Industrial Zone, Namdong-Gu, Incheon, Korea 405-300

Contact person : In-Ho, Kim

Telephone : +82 - 32 - 815 - 0511

Serial No : -

EUT size : 88mm(W) x 54mm(H) x 36mm(D)

Peripheral Device Ports

Port name	Description
USB	Connect to PC' s USB Port

Electrical rating

Input : Digital Still Camera - DC 4.5V(AAA 1.5V x 3) / USB PC Camera - Power By PC USB Port (5V)

Output : -

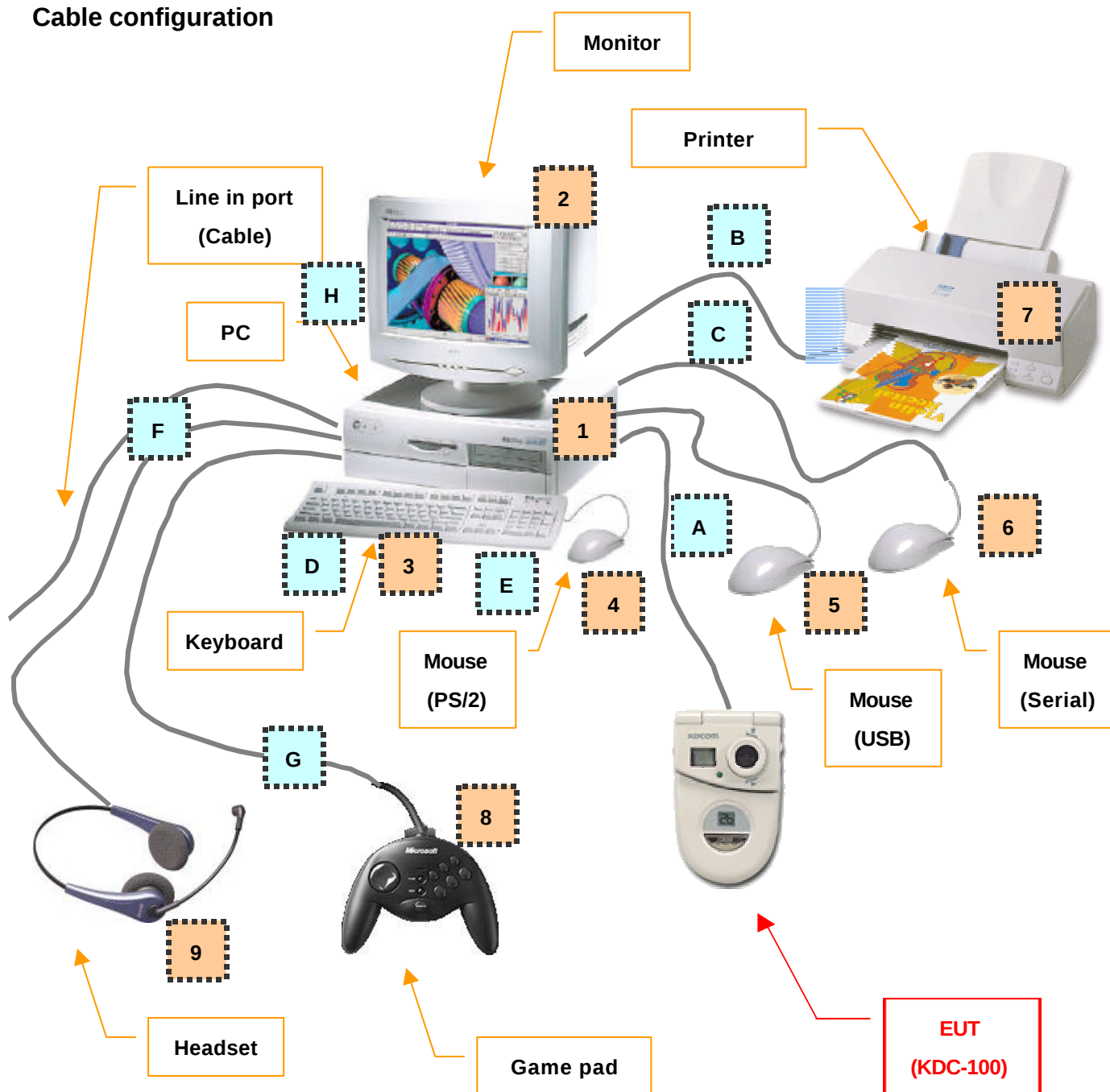


2. Test Set-up

Test Mode

Normal operation mode. - Data Transfer mode (EUT <-> PC) & Display image to monitor screen.

Cable configuration



**Cable description**

	Port name (start / end)	Type	Length (m)	Remark
A	EUT' s USB / PC' s USB	Shielded	1.5	Connected to PC' s USB Port
B	Printer' s Parallel / PC' s Parallel	Shielded (With Ferrite Core)	1.8	Connected to PC' s Parallel port
C	PC' s Serial / Mouse	Shielded	1.6	Connected Serial Mouse
D	PC' s Keyboard / Keyboard	Shielded	1.5	Connected PS/2 Keyboard
E	PC' s Mouse / Mouse	Shielded	1.6	Connected PS/2 Mouse
F	PC' s Sound (Speaker / Mic / Line in) / Headset & Cable	Unshielded	2.0	Connected Headset & Cable
G	PC' s Game Port / Game pad	Unshielded	2.0	Connected Game pad
H	PC' s Video / Monitor	Shielded (With Ferrite Core)	1.8	Connected Monitor

Auxiliary equipment

	Description	Model name	Serial No.	Manufacturer	FCC ID or DoC Info
1	PC	DTPC-17	G1703009	HEWLETT PACKARD	DoC
2	Monitor	PG17HS	301661	SAMSUNG	DoC
3	Keyboard	SK-2502C	M000351491	HEWLETT PACKARD	DoC
4	Mouse (PS/2)	M-S48	LZA84601000	LOGITECH	JNZ201213
5	Mouse (USB)	M-BB48	LZE93853176	LOGITECH	DoC
6	Mouse (Serial)	M-S48	LZA91153127	SOTEC	DZL211153
7	Printer	Stylus COLOR 460	BWCE143331	EPSON	DoC
8	Game pad	Side Winder	03421317	MICROSOFT	C3KMGP1
9	Headset	Hi-sonic	-	-	N/A

Test software

Software name	Manufacturer	Version	Description
KOCOM Viewer	KOCOM	1.0	Photo Editing
NetMeeting	Microsoft	3.0	Video Chat



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Certitek standards Laboratory Co., Ltd.

VCCI Registration No. R-948, C-986

FCC Registration No. 93250

Issue: 2000-11-29

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Measurement Procedures

Preliminary AC power line conducted emissions tests were performed shielded room. To find worst mode, several typical mode and typical cable position were tested.

Final AC power line conducted emissions test was performed shielded room.(location is same as Preliminary test)

Based on the preliminary tests of the EUT, final test was proceeded worst case test mode and cable configuration.

Preliminary radiated emissions test were performed anechoic chamber (Distance of antenna and EUT was 3m). To find worst mode, several typical mode and typical cable position were tested and peak level and frequency were recorded.

Final radiated emissions test was performed Open Area Test Site. Based on the preliminary tests of the EUT, final test was proceeded worst case test mode and cable configuration.

* Measurement procedures was In accordance with ANSI C63.4-1992 7.2.3, 7.2.4 and 8.3.1.1, 8.3.1.2



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3. Test Result

Test summary

Test	Result	Remark
Emission test (EMI)		
Radiated emission	Met	
Conducted emission	Met	

Measurement uncertainty (k=2)

150kHz~30MHz: ± 2.68 , 30MHz~300MHz: +4.58, -4.66, 300MHz ~ 1GHz: +3.78, -3.74

Uncertainty parameter was calculated according to 'NAMES Publication NIS 80'

The tested KDC-100 fully meets the Requirements of ANSI C63.4-1992, when operated as described in this report.



Radiated emission

Test result: **Met**

Date of testing : 2000-11-20

Ambient temperature: 15°C, Relative humidity: 40%, Atmospheric pressure: 1003hPa(mbar)

Test site type: Open area test site

Reference Standard: FCC Part15 Subpart B , Class B

Test and measurement equipment (Main equipment)

Model name	Manufacturer	Description	Serial No.
3146	EMCO	Biconical antenna	9607-4567
3110B	EMCO	Log-periodic antenna	9607-2564
ESVS30	Rohde Schwarz	Field strength meter	826638/008

Frequency Band 30MHz - 1000MHz

Instrument settings IF Band Width : 120KHz

Antenna distance 3m (From the EUT)

Test data sheet (Quasi-Peak reading)

Frequency [MHz]	Reading [dBuV/m]	Pol.	Height [m]	Correction Factor		Limits [dBuV/m]	Result [dBuV/m]	Margin [dB]
				Antenna	Cable			
48.01	22.8	V	1.0	10.28	0.60	40.0	33.68	6.32
108.00	13.0	V	3.0	10.65	1.10	43.5	24.75	18.75
157.60	14.5	V	1.0	12.63	1.50	43.5	28.63	14.87
171.18	10.0	V	1.0	12.90	1.60	43.5	24.50	19.00
228.00	12.0	V	1.0	17.30	1.90	46.0	31.20	14.80
744.00	12.8	H	1.8	21.28	4.50	46.0	38.58	7.42
744.00	15.0	V	1.0	21.28	4.50	46.0	40.78	5.22
792.00	18.8	H	1.0	21.20	4.70	46.0	44.70	1.30
792.00	15.4	V	1.0	21.20	4.70	46.0	41.30	4.70

Comment : -



Conducted emission

Test result: **Met**

Date of testing : 2000-11-21

Ambient temperature: 20°C, Relative humidity: 43%, Atmospheric pressure: 1000hPa(mbar)

Test site type: Shielded room

Reference Standard: FCC Part15 Subpart B , Class B

Test and measurement equipment (Main equipment)

Model name	Manufacturer	Description	Serial No.
3825/2	EMCO	LISN	9206-1971
ESHS30	Rohde Schwarz	Field strength meter	828144/002
-	-	-	-

Frequency Band 450KHz - 30MHz

Instrument settings IF Band Width : 9KHz

Test data sheet (Quasi-Peak reading)

Frequency [MHz]	Correction Factor		Line	Quasi-peak				Average			
	LISN	Cable		Limit	Reading	Result	Margin	Limit	Reading	Result	Margin
				[dBuV]	[dBuV]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dBuV]	[dB]
0.49	0.2	0.1	N	48.0	38.2	38.5	9.5				
0.54	0.2	0.1	N	48.0	32.5	32.8	15.2				
0.59	0.2	0.1	N	48.0	36.5	36.8	11.2				
0.68	0.2	0.1	N	48.0	32.5	32.8	15.2				
0.78	0.2	0.1	N	48.0	36.6	36.9	11.1				
0.88	0.3	0.1	N	48.0	37.7	38.1	9.9				
0.98	0.3	0.1	N	48.0	36.4	36.8	11.2				
12.61	0.3	0.1	H	48.0	34.0	34.4	13.6				
12.71	0.3	0.1	H	48.0	35.9	36.3	11.7				
12.91	0.3	0.1	H	48.0	37.1	37.5	10.5				
13.89	0.2	0.1	H	48.0	33.7	34.0	14.0				
14.18	0.2	0.1	H	48.0	33.7	34.0	14.0				

Comment : -



Test data graphic

