



Prodigy Technology

Consultant Co., Ltd.

Page 1 of 45

L101207-01-A0

TEST REPORT

EN 60950-1: 2006

Information Technology Equipment – Safety – Part 1: General Requirements

Test Report No.: L101207-01-A0

Client

Name : VIVOTEK INC.

Address : 6F, No.192, Lien-Cheng Rd., Chung-Ho District, New Taipei City, Taiwan, R.O.C.

Test Item : Network Camera

Identification : IP8151P

Testing laboratory

Name : Prodigy Technology Consultant Co., Ltd.

Address : No.181, Sec. 2, Wunhua 1st Rd., Linkou District, New Taipei City 244, CHINESE TAIPEI

Test specification

Standard : EN 60950-1:2006+A11:2009

Test Result : The test item passed.

Prepared By :

Signature

Frank Chang

Engineer

2011-03-15

Date

Approved By:

Signature

Angus Hsu

General Manager

2011-03-15

Date

Other Aspects:

The completed test report includes the following documents:

- EN 60950-1 report (45 pages)



The test report shall not be reproduced except in full, without written approval of the laboratory.
This test report does not entitle to carry any safety mark on this or similar products.



Prodigy Technology

Consultant Co., Ltd.

Page 2 of 45

L101207-01-A0

TEST REPORT

EN 60950-1: 2006

Information Technology Equipment – Safety – Part 1: General Requirements

Report Reference No.....: L101207-01-A0

Tested by (+ signature): See cover sheet

Approved by (+ signature): See cover sheet

Date of issue.....: 2011-03-15

Testing laboratory

Name: Prodigy Technology Consultant Co., Ltd.

Address.....: No.181, Sec. 2, Wunhua 1st Rd., Linkou District, New Taipei City
244, CHINESE TAIPEI

Testing location: Prodigy Technology Consultant Co., Ltd.

Address.....: No.181, Sec. 2, Wunhua 1st Rd., Linkou District, New Taipei City
244, CHINESE TAIPEI

Applicant

Name: VIVOTEK INC.

Address.....: 6F, No.192, Lien-Cheng Rd., Chung-Ho District, New Taipei City,
Taiwan, R.O.C.

Test specification

Standard: EN 60950-1: 2006+A11:2009

Test procedure: CE Marking serial in LVD

Procedure deviation.....: N/A

Non-standard test method.....: N/A

Test Report Form/blank test report

Test Report Form No.: IEC60950_1A

TRF originator: SGS Fimko Ltd

Master TRF: 2009-09

Test equipment

Description.....: Network Camera

Trademark: 

Manufacturer: Same as applicant.

Model and/or type reference: IP8151P

Rating(s).....:

1. 12Vdc, 0.4 A (Power from adapter)
2. 48Vdc, 0.2 A (Power from Power over Ethernet)
3. 24Vac, 0.3 A, 50/60Hz (Power from AC Power Supply)



Prodigy Technology

Consultant Co., Ltd.

Page 3 of 45

L101207-01-A0

Summary of Testing:

Unless otherwise indicated, all tests were conducted at Prodigy Technology Consultant Co., Ltd. No. 181, Sec. 2, Wunhua 1st Rd., Linkou Township, Taipei 244, Chinese Taipei.

Tests performed (name of test and test clause)	Testing location / Comments
1.6.2 - INPUT TEST: SINGLE-PHASE	
2.5 - LIMITED POWER SOURCE MEASUREMENTS	
2.10.2 - DETERMINATION OF WORKING VOLTAGE - WORKING VOLTAGE MEASUREMENT TEST	
2.10.2, PART 22 6.1 - DETERMINATION OF WORKING VOLTAGE - HAZARDOUS VOLTAGE (CIRCUIT) MEASUREMENT TEST	
2.10.5.9, 2.10.5.10, 2.10.5.6 – THIN SHEET MATERIAL TESTS	
2.10.5.13 - TRANSFORMER AND WIRE INSULATION ELECTRIC STRENGTH TEST	
4.2.1 - 4.2.4 – STEADY FORCE TESTS	
4.2.10 - LOADING TESTS – WALL AND CEILING MOUNTED EQUIPMENT	
4.5.1, 1.4.12, 1.4.13 - HEATING TEST	



Prodigy Technology

Consultant Co., Ltd.

Page 4 of 45

L101207-01-A0

Copy of marking plate and summary of test results (information/comments)



This is a reference Label. Final label shall be including the content of it.



Prodigy Technology

Consultant Co., Ltd.

Page 5 of 45

L101207-01-A0

Particulars: test item vs. test requirements

Equipment mobility	: movable
Operating condition	: Continuous
Mains supply tolerance (%)	No direct connection
Tested for IT power systems	: No
IT testing, phase-phase voltage (V)	: N/A
Class of equipment.....	: Class III
Mass of equipment (kg).....	: 0.73 kg
Protection against ingress of water	: IPX0

Test case verdicts

Test case does not apply to the test object.....	: N/A
Test item does meet the requirement.....	: Pass
Test item does not meet the requirement.....	: Fail

Testing

Date of receipt of test item.....	: 2010-12-06
Date(s) of performance of test.....	: 2010-12-17 to 2011-02-14

General remarks

This test report shall not be reproduced except in full without the written approval of the testing laboratory.
The test results presented in this report relate only to the item tested.
"(see remark #)" refers to a remark appended to the report.
"(see appended table)" refers to a table appended to the report.
Throughout this report a point is used as the decimal separator.

Brief description of the test equipment

- 1) The equipment is a Class III Outdoor Network Camera.
- 2) The maximum ambient temperature specified by manufacturer is 50 °C.
- 3) EUT Dimension: overall 60 by 72 by 154.16 mm.

Models difference

N/A

Factory Location(s):

VIVOTEK INC.
6F, No.192, Lien-Cheng Rd., Chung-Ho District, New Taipei City, Taiwan, R.O.C.

Test condition

Temperature: 25°C
Relative humidity: 60%
Air pressure: 950 mbar

The test samples are pre-production without serial numbers.



Prodigy Technology

Consultant Co., Ltd.

Page 6 of 45

L101207-01-A0

EN 60950-1:2006			
Clause	Requirement - Test	Result - Remark	Verdict
1	GENERAL		Pass

1.5	Components		Pass
1.5.1	General	See below.	Pass
	Comply with IEC 60950 or relevant component standard	(see appended table 1.5.1)	Pass
1.5.2	Evaluation and testing of components	Components certified to IEC harmonized standard and checked for correct application. Components not certified are used in accordance with their ratings and they comply with applicable parts of IEC 60950-1 and the relevant component Standard. Components, for which no relevant IEC-Standard exist, have been tested under the conditions occurring in the equipment, using applicable parts of IEC 60950-1.	Pass
1.5.3	Thermal controls		N/A
1.5.4	Transformers		N/A
1.5.5	Interconnecting cables	Interconnecting cables comply with the relevant requirements of this standard.	Pass
1.5.6	Capacitors bridging insulation		N/A
1.5.7	Resistors bridging insulation		N/A
1.5.7.1	Resistors bridging functional, basic or supplementary insulation		N/A
1.5.7.2	Resistors bridging double or reinforced insulation between a.c. mains and other circuits		N/A
1.5.7.3	Resistors bridging double or reinforced insulation between a.c. mains and antenna or coaxial cable		N/A
1.5.8	Components in equipment for IT power systems		N/A
1.5.9	Surge suppressors		N/A
1.5.9.1	General		N/A
1.5.9.2	Protection of VDRs		N/A
1.5.9.3	Bridging of functional insulation by a VDR		N/A
1.5.9.4	Bridging of basic insulation by a VDR		N/A

TRF No.: IEC60950_1A



Prodigy Technology

Consultant Co., Ltd.

Page 7 of 45

L101207-01-A0

EN 60950-1:2006			
Clause	Requirement - Test	Result - Remark	Verdict

1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR		N/A
---------	---	--	-----

1.6	Power interface		Pass
1.6.1	AC power distribution systems		N/A
1.6.2	Input current	The steady state input current of the equipment did not exceed the RATED CURRENT by more than 10% under normal load See appended table 1.6.2 for details	Pass
1.6.3	Voltage limit of hand-held equipment	This is not a hand-held equipment.	N/A
1.6.4	Neutral conductor		N/A

1.7	Marking and instructions		Pass
1.7.1	Power rating	Rating marking readily visible to operator.(Optional)	Pass
	Rated voltage(s) or voltage range(s) (V)	12Vdc (Power from adapter) 48Vdc (Power from Power over Ethernet adapter base unit) 24Vac (Power from AC Power Supply)	Pass
	Symbol for nature of supply, for d.c. only	— (60417-2-IEC-5031)	Pass
	Rated frequency or frequency range (Hz)	50/60Hz.	Pass
	Rated current (mA or A)	0.4A (Power from adapter) 0.2A (Power from Power over Ethernet) 0.3A (Power from AC Power Supply)	Pass
	Manufacturer's name or trade-mark or identification mark	VIVOTEK INC./ 	Pass
	Model identification or type reference	IP8151P	Pass
	Symbol for Class II equipment only		N/A
	Other markings and symbols	Additional markings are used and are defined in the installation instructions.	Pass
1.7.2	Safety instructions and marking	Safety instructions in English. Other languages will be provided when submitted for national approval	Pass



Prodigy Technology

Consultant Co., Ltd.

Page 8 of 45

L101207-01-A0

EN 60950-1:2006

Clause	Requirement - Test	Result - Remark	Verdict
--------	--------------------	-----------------	---------

1.7.2.1	General		N/A
1.7.2.2	Disconnect devices		N/A
1.7.2.3	Overcurrent protective device		N/A
1.7.2.4	IT power distribution systems		N/A
1.7.2.5	Operator access with a tool		N/A
1.7.2.6	Ozone		N/A
1.7.3	Short duty cycles	Equipment is designed for continuous operation.	N/A
1.7.4	Supply voltage adjustment	No adjustment can be made	N/A
	Methods and means of adjustment; reference to installation instructions		N/A
1.7.5	Power outlets on the equipment	No power outlets.	N/A
1.7.6	Fuse identification (marking, special fusing characteristics, cross-reference)		N/A
1.7.7	Wiring terminals		N/A
1.7.7.1	Protective earthing and bonding terminals	Evaluated as part of power supply.	N/A
1.7.7.2	Terminal for a.c. mains supply conductors		N/A
1.7.7.3	Terminals for d.c. mains supply conductors	No permanently connected equipment.	N/A
1.7.8	Controls and indicators		N/A
1.7.8.1	Identification, location and marking		N/A
1.7.8.2	Colours		N/A
1.7.8.3	Symbols according to IEC 60417		N/A
1.7.8.4	Markings using figures		N/A
1.7.9	Isolation of multiple power sources		N/A
1.7.10	Thermostats and other regulating devices		N/A
1.7.11	Durability	Comply with the durability test	Pass
1.7.12	Removable parts	No marking is located on a removable parts.	Pass
1.7.13	Replaceable batteries	No batteries provided.	N/A
	Language(s)		N/A
1.7.14	Equipment for restricted access locations		N/A

2	PROTECTION FROM HAZARDS	Pass
---	-------------------------	------



Prodigy Technology

Consultant Co., Ltd.

Page 9 of 45

L101207-01-A0

EN 60950-1:2006			
Clause	Requirement - Test	Result - Remark	Verdict

2.1	Protection from electric shock and energy hazards		Pass
2.1.1	Protection in operator access areas	See below	Pass
2.1.1.1	Access to energized parts	See below	Pass
	Test by inspection	All accessible circuits are SELV circuits	Pass
	Test with test finger (Figure 2A)		Pass
	Test with test pin (Figure 2B)		Pass
	Test with test probe (Figure 2C)	No TNV circuit.	N/A
2.1.1.2	Battery compartments		N/A
2.1.1.3	Access to ELV wiring	No ELV wiring in operator accessible area	N/A
	Working voltage (Vpeak or Vrms); minimum distance through insulation (mm)		—
2.1.1.4	Access to hazardous voltage circuit wiring		N/A
2.1.1.5	Energy hazards	No hazardous energy in operator access area	Pass
2.1.1.6	Manual controls		N/A
2.1.1.7	Discharge of capacitors in equipment		N/A
	Measured voltage (V); time-constant (s)		—
2.1.1.8	Energy hazards – d.c. mains supply		N/A
	a) Capacitor connected to the d.c. mains supply .		N/A
	b) Internal battery connected to the d.c. mains supply		N/A
2.1.1.9	Audio amplifiers		N/A
2.1.2	Protection in service access areas		N/A
2.1.3	Protection in restricted access locations		N/A

2.2	SELV circuits		Pass
2.2.1	General requirements	The unit intended to be supplied by SELV.	Pass
2.2.2	Voltages under normal conditions (V)	All accessible voltage are less than 42.4Vp or 60Vdc and are classified as SELV	Pass
2.2.3	Voltages under fault conditions (V).....	Under fault conditions voltages never exceed 71 Vpeak and 120 Vdc and do not exceed 42.4 V peak or 60 V dc for more than 0.2 sec	Pass



Prodigy Technology

Consultant Co., Ltd.

Page 10 of 45

L101207-01-A0

EN 60950-1:2006			
Clause	Requirement - Test	Result - Remark	Verdict
2.2.4	Connection of SELV circuits to other circuits..... :	SELV circuits are only connected to other SELV circuit	Pass

2.3	TNV circuits	N/A
2.3.1	Limits	No TNV circuit.
	Type of TNV circuits	—
2.3.2	Separation from other circuits and from accessible parts	N/A
2.3.2.1	General requirements	N/A
2.3.2.2	Protection by basic insulation	N/A
2.3.2.3	Protection by earthing	N/A
2.3.2.4	Protection by other constructions	N/A
2.3.3	Separation from hazardous voltages	N/A
	Insulation employed..... :	—
2.3.4	Connection of TNV circuits to other circuits	N/A
	Insulation employed..... :	—
2.3.5	Test for operating voltages generated externally	N/A

2.4	Limited current circuits	N/A
2.4.1	General requirements	N/A
2.4.2	Limit values	N/A
	Frequency (Hz)	—
	Measured current (mA)..... :	—
	Measured voltage (V)	—
	Measured capacitance (nF or μ F)	—
2.4.3	Connection of limited current circuits to other circuits	N/A

2.5	Limited power sources	Pass	
	a) Inherently limited output	See table 2.5 for details	Pass
	b) Impedance limited output		N/A
	c) Regulating network limited output under normal operating and single fault condition	See table 2.5 for details	Pass



Prodigy Technology

Consultant Co., Ltd.

Page 11 of 45

L101207-01-A0

EN 60950-1:2006			
Clause	Requirement - Test	Result - Remark	Verdict
	d) Overcurrent protective device limited output		N/A
	Max. output voltage (V), max. output current (A), max. apparent power (VA).....	See table 2.5 for details	—
	Current rating of overcurrent protective device (A)		—

2.6	Provisions for earthing and bonding		N/A
2.6.1	Protective earthing	Class III equipment.	N/A
2.6.2	Functional earthing		N/A
2.6.3	Protective earthing and protective bonding conductors		N/A
2.6.3.1	General		N/A
2.6.3.2	Size of protective earthing conductors		N/A
	Rated current (A), cross-sectional area (mm^2), AWG		—
2.6.3.3	Size of protective bonding conductors		N/A
	Rated current (A), cross-sectional area (mm^2), AWG		—
	Protective current rating (A), cross-sectional area (mm^2), AWG		—
2.6.3.4	Resistance of earthing conductors and their terminations; resistance (Ω), voltage drop (V), test current (A), duration (min)		N/A
2.6.3.5	Colour of insulation		N/A
2.6.4	Terminals		N/A
2.6.4.1	General		N/A
2.6.4.2	Protective earthing and bonding terminals		N/A
	Rated current (A), type and nominal thread diameter (mm)		—
2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors		N/A
2.6.5	Integrity of protective earthing		—
2.6.5.1	Interconnection of equipment		N/A
2.6.5.2	Components in protective earthing conductors and protective bonding conductors		N/A
2.6.5.3	Disconnection of protective earth		N/A
2.6.5.4	Parts that can be removed by an operator		N/A



Prodigy Technology

Consultant Co., Ltd.

Page 12 of 45

L101207-01-A0

EN 60950-1:2006

Clause	Requirement - Test	Result - Remark	Verdict
--------	--------------------	-----------------	---------

2.6.5.5	Parts removed during servicing		N/A
2.6.5.6	Corrosion resistance		N/A
2.6.5.7	Screws for protective bonding		N/A
2.6.5.8	Reliance on telecommunication network or cable distribution system		N/A

2.7	Overcurrent and earth fault protection in primary circuits		N/A
2.7.1	Basic requirements	Class III equipment.	N/A
	Instructions when protection relies on building installation		N/A
2.7.2	Faults not simulated in 5.3.7		N/A
2.7.3	Short-circuit backup protection		N/A
2.7.4	Number and location of protective devices :		N/A
2.7.5	Protection by several devices		N/A
2.7.6	Warning to service personnel		N/A

2.8	Safety interlocks		N/A
2.8.1	General principles	No safety interlocks provided.	N/A
2.8.2	Protection requirements		N/A
2.8.3	Inadvertent reactivation		N/A
2.8.4	Fail-safe operation		N/A
2.8.5	Moving parts		N/A
2.8.6	Overriding		N/A
2.8.7	Switches and relays		N/A
2.8.7.1	Contact gaps (mm):		N/A
2.8.7.2	Overload test		N/A
2.8.7.3	Endurance test		N/A
2.8.7.4	Electric strength test (V)		N/A
2.8.8	Mechanical actuators		N/A

2.9	Electrical insulation		Pass
2.9.1	Properties of insulating materials		N/A
2.9.2	Humidity conditioning		N/A



Prodigy Technology

Consultant Co., Ltd.

Page 13 of 45

L101207-01-A0

EN 60950-1:2006			
Clause	Requirement - Test	Result - Remark	Verdict
	Relative humidity (%), temperature (°C)		-
2.9.3	Grade of insulation		N/A
2.9.4	Separation from hazardous voltages		N/A
	Method(s) used		-

2.10	Clearances, creepage distances and distances through insulation	Pass
2.10.1	General	Pollution degree 2 applicable.
2.10.1.1	Frequency	N/A
2.10.1.2	Pollution degrees	Pollution degree 2 applicable.
2.10.1.3	Reduced values for functional insulation	Functional insulation
2.10.1.4	Intervening unconnected conductive parts	N/A
2.10.1.5	Insulation with varying dimensions	N/A
2.10.1.6	Special separation requirements	N/A
2.10.1.7	Insulation in circuits generating starting pulses	N/A
2.10.2	Determination of working voltage	Class III product
2.10.2.1	General	N/A
2.10.2.2	RMS working voltage	N/A
2.10.2.3	Peak working voltage	N/A
2.10.3	Clearances	See appended table 2.10.3 and 2.10.4
2.10.3.1	General	Pass
2.10.3.2	Mains transient voltages	N/A
	a) AC mains supply	N/A
	b) Earthed d.c. mains supplies	N/A
	c) Unearthed d.c. mains supplies	N/A
	d) Battery operation	N/A
2.10.3.3	Clearances in primary circuits	N/A
2.10.3.4	Clearances in secondary circuits	Functional insulation
2.10.3.5	Clearances in circuits having starting pulses	N/A
2.10.3.6	Transients from a.c. mains supply	N/A
2.10.3.7	Transients from d.c. mains supply	N/A
2.10.3.8	Transients from telecommunication networks and cable distribution systems	N/A
2.10.3.9	Measurement of transient voltage levels	N/A
	a) Transients from a mains supply	N/A



Prodigy Technology

Consultant Co., Ltd.

Page 14 of 45

L101207-01-A0

EN 60950-1:2006			
Clause	Requirement - Test	Result - Remark	Verdict
	For an a.c. mains supply		N/A
	For a d.c. mains supply		N/A
	b) Transients from a telecommunication network .		N/A
2.10.4	Creepage distances	Functional insulation	Pass
2.10.4.1	General		Pass
2.10.4.2	Material group and comparative tracking index		N/A
	CTI tests.....		—
2.10.4.3	Minimum creepage distances		N/A
2.10.5	Solid insulation		Pass
2.10.5.1	General		N/A
2.10.5.2	Distances through insulation		N/A
2.10.5.3	Insulating compound as solid insulation		N/A
2.10.5.4	Semiconductor devices		N/A
2.10.5.5.	Cemented joints		N/A
2.10.5.6	Thin sheet material – General	one layers used on transformer's wrapping, each of two layers which complies with the required electric strength test	Pass
2.10.5.7	Separable thin sheet material	See critical component table for details	Pass
	Number of layers (pcs)	1 layers	—
2.10.5.8	Non-separable thin sheet material		N/A
2.10.5.9	Thin sheet material – standard test procedure		N/A
	Electric strength test		—
2.10.5.10	Thin sheet material – alternative test procedure		N/A
	Electric strength test		—
2.10.5.11	Insulation in wound components		Pass
2.10.5.12	Wire in wound components	The employed UL Recognized wiring meets the requirements of 2.10.5.4.	Pass
	Working voltage	See appended table 2.10.5	Pass
	a) Basic insulation not under stress		N/A
	b) Basic, supplementary, reinforced insulation	Functional	Pass
	c) Compliance with Annex U		N/A



Prodigy Technology

Consultant Co., Ltd.

Page 15 of 45

L101207-01-A0

EN 60950-1:2006			
Clause	Requirement - Test	Result - Remark	Verdict

	Two wires in contact inside wound component; angle between 45° and 90°	Physical separation in the form of insulating sheet material to relieve mechanical stress at the crossover point.	Pass
2.10.5.13	Wire with solvent-based enamel in wound components		N/A
	Electric strength test		—
	Routine test		N/A
2.10.5.14	Additional insulation in wound components		N/A
	Working voltage		N/A
	- Basic insulation not under stress		N/A
	- Supplementary, reinforced insulation		N/A
2.10.6	Construction of printed boards		N/A
2.10.6.1	Uncoated printed boards		N/A
2.10.6.2	Coated printed boards		N/A
2.10.6.3	Insulation between conductors on the same inner surface of a printed board		N/A
2.10.6.4	Insulation between conductors on different layers of a printed board		N/A
	Distance through insulation		N/A
	Number of insulation layers (pcs)		N/A
2.10.7	Component external terminations		N/A
2.10.8	Tests on coated printed boards and coated components		N/A
2.10.8.1	Sample preparation and preliminary inspection		N/A
2.10.8.2	Thermal conditioning		N/A
2.10.8.3	Electric strength test		N/A
2.10.8.4	Abrasion resistance test		N/A
2.10.9	Thermal cycling		N/A
2.10.10	Test for Pollution Degree 1 environment and insulating compound		N/A
2.10.11	Tests for semiconductor devices and cemented joints		N/A
2.10.12	Enclosed and sealed parts		N/A

3	WIRING, CONNECTIONS AND SUPPLY	Pass
---	--------------------------------	------



Prodigy Technology

Consultant Co., Ltd.

Page 16 of 45

L101207-01-A0

EN 60950-1:2006			
Clause	Requirement - Test	Result - Remark	Verdict

3.1	General		Pass
3.1.1	Current rating and overcurrent protection	All wires/conductors possess adequate cross-sectional areas for their intended application and internal wiring are adequately insulated.	Pass
3.1.2	Protection against mechanical damage	The wires are well routed away from sharp edges , etc. and are adequately fixed to prevent excessive strain on wire and terminals	Pass
3.1.3	Securing of internal wiring	The wires are positioned in such a manner that prevents excessive strain, loosening of terminal connections and damage of conductor.	Pass
3.1.4	Insulation of conductors		N/A
3.1.5	Beads and ceramic insulators		N/A
3.1.6	Screws for electrical contact pressure		N/A
3.1.7	Insulating materials in electrical connections	No contact pressure through insulating material.	Pass
3.1.8	Self-tapping and spaced thread screws		N/A
3.1.9	Termination of conductors		N/A
	10 N pull test		N/A
3.1.10	Sleeving on wiring		N/A

3.2	Connection to a mains supply		N/A
3.2.1	Means of connection	Class III equipment.	N/A
3.2.1.1	Connection to an a.c. mains supply		N/A
3.2.1.2	Connection to a d.c. mains supply		N/A
3.2.2	Multiple supply connections		N/A
3.2.3	Permanently connected equipment		N/A
	Number of conductors, diameter of cable and conduits (mm)		—
3.2.4	Appliance inlets		N/A
3.2.5	Power supply cords		N/A
3.2.5.1	AC Power supply cords		N/A
	Type		—



Prodigy Technology

Consultant Co., Ltd.

Page 17 of 45

L101207-01-A0

EN 60950-1:2006			
Clause	Requirement - Test	Result - Remark	Verdict

	Rated current (A), cross-sectional area (mm ²), AWG	—
3.2.5.2	DC power supply cords		N/A
3.2.6	Cord anchorages and strain relief		N/A
	Mass of equipment (kg), pull (N)		—
	Longitudinal displacement (mm)		—
3.2.7	Protection against mechanical damage		N/A
3.2.8	Cord guards		N/A
	D (mm); test mass (g)		—
	Radius of curvature of cord (mm)		—
3.2.9	Supply wiring space		N/A

3.3	Wiring terminals for connection of external conductors	N/A
3.3.1	Wiring terminals	Class III equipment.
3.3.2	Connection of non-detachable power supply cords	N/A
3.3.3	Screw terminals	N/A
3.3.4	Conductor sizes to be connected	N/A
	Rated current (A), cord/cable type, cross-sectional area (mm ²)	—
3.3.5	Wiring terminals sizes	N/A
	Rated current (A), type, nominal thread diameter (mm)	—
3.3.6	Wiring terminals design	N/A
3.3.7	Grouping of wiring terminals	N/A
3.3.8	Standard wire	N/A

3.4	Disconnection from the mains supply	N/A
3.4.1	General requirement	Class III equipment.
3.4.2	Disconnect devices	N/A
3.4.3	Permanently connected equipment	N/A
3.4.4	Parts which remain energised	N/A
3.4.5	Switches in flexible cords	N/A



Prodigy Technology

Consultant Co., Ltd.

Page 18 of 45

L101207-01-A0

EN 60950-1:2006			
Clause	Requirement - Test	Result - Remark	Verdict

3.4.6	Number of poles - single-phase and d.c. equipment		N/A
3.4.7	Number of poles - three-phase equipment		N/A
3.4.8	Switches as disconnect devices		N/A
3.4.9	Plugs as disconnect devices		N/A
3.4.10	Interconnected equipment		N/A
3.4.11	Multiple power sources		N/A

3.5	Interconnection of equipment	Pass
3.5.1	General requirements	Pass
3.5.2	Types of interconnection circuits :	Interconnection circuits are SELV
3.5.3	ELV circuits as interconnection circuits	No ELV interconnections.
3.5.4	Data ports for additional equipment	Complied with LPS, See table 2.5 for details.

4	PHYSICAL REQUIREMENTS	Pass
---	------------------------------	------

4.1	Stability	N/A
	Angle of 10°	The equipment less than 7 kg
	Test: force (N) :	Not floor standing equipment.

4.2	Mechanical strength	Pass
4.2.1	General	Pass
4.2.2	Steady force test, 10 N	N/A
4.2.3	Steady force test, 30 N	N/A
4.2.4	Steady force test, 250 N	Pass
4.2.5	Impact test	Pass
	Fall test	Pass
	Swing test	Pass
4.2.6	Drop test; height (mm) :	N/A
4.2.7	Stress relief	Class III equipment.
4.2.8	Cathode ray tubes	No CRT provided.
	Picture tube separately certified :	N/A



Prodigy Technology

Consultant Co., Ltd.

Page 19 of 45

L101207-01-A0

EN 60950-1:2006			
Clause	Requirement - Test	Result - Remark	Verdict
4.2.9	High pressure lamps	No high pressure lamp provided.	N/A
4.2.10	Wall or ceiling mounted equipment; force (N):	Mounting means withstands four times unit weight or 50N minimum. Force applied: 50N.	Pass

4.3	Design and construction		Pass
4.3.1	Edges and corners	All edges and corners are judged to be sufficiently well rounded so as not to constitute a hazard.	Pass
4.3.2	Handles and manual controls; force (N).....:		N/A
4.3.3	Adjustable controls		N/A
4.3.4	Securing of parts		N/A
4.3.5	Connection by plugs and sockets		N/A
4.3.6	Direct plug-in equipment	Not direct plug-in equipment.	N/A
	Torque		—
	Compliance with the relevant mains plug standard		N/A
4.3.7	Heating elements in earthed equipment	No heating element.	N/A
4.3.8	Batteries	No battery.	N/A
	- Overcharging of a rechargeable battery		N/A
	- Unintentional charging of a non-rechargeable battery		N/A
	- Reverse charging of a rechargeable battery		N/A
	- Excessive discharging rate for any battery		N/A
4.3.9	Oil and grease	No oil or grease.	N/A
4.3.10	Dust, powders, liquids and gases		N/A
4.3.11	Containers for liquids or gases	No liquids or gases.	N/A
4.3.12	Flammable liquids.....:	No flammable liquids.	N/A
	Quantity of liquid (l).....:		N/A
	Flash point (°C).....:		N/A
4.3.13	Radiation		N/A
4.3.13.1	General		N/A
4.3.13.2	Ionizing radiation		N/A



Prodigy Technology

Consultant Co., Ltd.

Page 20 of 45

L101207-01-A0

EN 60950-1:2006

Clause	Requirement - Test	Result - Remark	Verdict
--------	--------------------	-----------------	---------

	Measured radiation (pA/kg)		—
	Measured high-voltage (kV)		—
	Measured focus voltage (kV)		—
	CRT markings		—
4.3.13.3	Effect of ultraviolet (UV) radiation on materials		N/A
	Part, property, retention after test, flammability classification		N/A
4.3.13.4	Human exposure to ultraviolet (UV) radiation ...:		N/A
4.3.13.5	Laser (including LEDs)		N/A
	Laser class		—
4.3.13.6	Other types		N/A

4.4	Protection against hazardous moving parts		N/A
4.4.1	General		N/A
4.4.2	Protection in operator access areas		N/A
4.4.3	Protection in restricted access locations		N/A
4.4.4	Protection in service access areas		N/A

4.5	Thermal requirements		Pass
4.5.1	General	See appended table 4.5.1 for details	Pass
4.5.2	Temperature tests		Pass
	Normal load condition per Annex L	See appended table 4.5.1 for details	-
4.5.3	Temperature limits for materials		Pass
4.5.4	Touch temperature limits		Pass
4.5.5	Resistance to abnormal heat		N/A

4.6	Openings in enclosures		Pass
4.6.1	Top and side openings	No opening	Pass
	Dimensions (mm)		—
4.6.2	Bottoms of fire enclosures	No opening.	Pass
	Construction of the bottom, dimensions (mm):		—
4.6.3	Doors or covers in fire enclosures		N/A



Prodigy Technology

Consultant Co., Ltd.

Page 21 of 45

L101207-01-A0

EN 60950-1:2006			
Clause	Requirement - Test	Result - Remark	Verdict

4.6.4	Openings in transportable equipment		N/A
4.6.4.1	Constructional design measures		N/A
	Dimensions (mm)		—
4.6.4.2	Evaluation measures for larger openings		N/A
4.6.4.3	Use of metallized parts		N/A
4.6.5	Adhesives for constructional purposes		N/A
	Conditioning temperature (°C), time (weeks).....		—

4.7	Resistance to fire		Pass
4.7.1	Reducing the risk of ignition and spread of flame	Method 1: Selection and application of components and materials which minimize the possibility of ignition and spread of flame.	Pass
	Method 1, selection and application of components wiring and materials	See appended table 1.5.1	Pass
	Method 2, application of all of simulated fault condition tests		N/A
4.7.2	Conditions for a fire enclosure	A fire enclosure is required	Pass
4.7.2.1	Parts requiring a fire enclosure	Fire enclosure covers all parts.	Pass
4.7.2.2	Parts not requiring a fire enclosure		N/A
4.7.3	Materials		Pass
4.7.3.1	General	See below	Pass
4.7.3.2	Materials for fire enclosures	Metal enclosure	Pass
4.7.3.3	Materials for components and other parts outside fire enclosures	HB Min.	Pass
4.7.3.4	Materials for components and other parts inside fire enclosures	All internal materials are rated V-2 or better or are mounted on a PWB rated V-1 or better. Internal wiring is UL Recognized, rated VW-1 or FT-1. (See appended table 1.5.1)	Pass
4.7.3.5	Materials for air filter assemblies		N/A
4.7.3.6	Materials used in high-voltage components		N/A



Prodigy Technology

Consultant Co., Ltd.

Page 22 of 45

L101207-01-A0

EN 60950-1:2006			
Clause	Requirement - Test	Result - Remark	Verdict
5	ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS		N/A

5.1	Touch current and protective conductor current	N/A
5.1.1	General	Class III equipment
5.1.2	Configuration of equipment under test (EUT)	N/A
5.1.2.1	Single connection to an a.c. mains supply	N/A
5.1.2.2	Redundant multiple connections to an a.c. mains supply	N/A
5.1.2.3	Simultaneous multiple connections to an a.c. mains supply	N/A
5.1.3	Test circuit	N/A
5.1.4	Application of measuring instrument	N/A
5.1.5	Test procedure	N/A
5.1.6	Test measurements	N/A
	Supply voltage (V)	—
	Measured touch current (mA)	—
	Max. allowed touch current (mA)	—
	Measured protective conductor current (mA)	—
	Max. allowed protective conductor current (mA) :	—
5.1.7	Equipment with touch current exceeding 3,5 mA	N/A
5.1.7.1	General	N/A
5.1.7.2	Simultaneous multiple connections to the supply	N/A
5.1.8	Touch currents to and from telecommunication networks and cable distribution systems and from telecommunication networks	N/A
5.1.8.1	Limitation of the touch current to a telecommunication network or to a cable distribution system	N/A
	Supply voltage (V)	—
	Measured touch current (mA)	—
	Max. allowed touch current (mA)	—
5.1.8.2	Summation of touch currents from telecommunication networks	N/A
	a) EUT with earthed telecommunication ports	N/A



Prodigy Technology

Consultant Co., Ltd.

Page 23 of 45

L101207-01-A0

EN 60950-1:2006			
Clause	Requirement - Test	Result - Remark	Verdict
	b) EUT whose telecommunication ports have no reference to protective earth		N/A

5.2	Electric strength	N/A
5.2.1	General	Class III equipment
5.2.2	Test procedure	N/A

5.3	Abnormal operating and fault conditions	N/A
5.3.1	Protection against overload and abnormal operation	N/A
5.3.2	Motors	N/A
5.3.3	Transformers	N/A
5.3.4	Functional insulation..... :	N/A
5.3.5	Electromechanical components	N/A
5.3.6	Audio amplifiers in ITE	N/A
5.3.7	Simulation of faults	N/A
5.3.8	Unattended equipment	N/A
5.3.9	Compliance criteria for abnormal operating and fault conditions	N/A
5.3.9.1	During the tests	N/A
5.3.9.2	After the tests	N/A

6	CONNECTION TO TELECOMMUNICATION NETWORKS	N/A
---	---	-----

6.1	Protection of telecommunication network service personnel, and users of other equipment connected to the network, from hazards in the equipment	N/A
6.1.1	Protection from hazardous voltages	N/A
6.1.2	Separation of the telecommunication network from earth	N/A
6.1.2.1	Requirements	N/A
	Supply voltage (V)	—
	Current in the test circuit (mA)	—
6.1.2.2	Exclusions.....:	N/A



Prodigy Technology

Consultant Co., Ltd.

Page 24 of 45

L101207-01-A0

EN 60950-1:2006			
Clause	Requirement - Test	Result - Remark	Verdict

6.2	Protection of equipment users from overvoltages on telecommunication networks	N/A
6.2.1	Separation requirements	N/A
6.2.2	Electric strength test procedure	N/A
6.2.2.1	Impulse test	N/A
6.2.2.2	Steady-state test	N/A
6.2.2.3	Compliance criteria	N/A

6.3	Protection of telecommunication wiring system from overheating	N/A
	Max. output current (A)	—
	Current limiting method	—

7	CONNECTION TO CABLE DISTRIBUTION SYSTEMS	N/A
---	---	-----

7.1	General	N/A
7.2	Protection of cable distribution system service persons, and users of other equipment connected to the system, from hazardous voltages in the equipment	N/A
7.3	Protection of equipment users from overvoltages on the cable distribution system	N/A
7.4	Insulation between primary circuits and cable distribution systems	N/A
7.4.1	General	N/A
7.4.2	Voltage surge test	N/A
7.4.3	Impulse test	N/A



Prodigy Technology

Consultant Co., Ltd.

Page 25 of 45

L101207-01-A0

EN 60950-1:2006

Clause	Requirement - Test	Result - Remark	Verdict
--------	--------------------	-----------------	---------

A	ANNEX A, TESTS FOR RESISTANCE TO HEAT AND FIRE		
A.1	Flammability test for fire enclosures of movable equipment having a total mass exceeding 18 kg, and of stationary equipment (see 4.7.3.2)		N/A
A.1.1	Samples		N/A
	Wall thickness (mm).....:		—
A.1.2	Conditioning of samples; temperature (°C)		N/A
A.1.3	Mounting of samples.....:		N/A
A.1.4	Test flame (see IEC 60695-11-3)		N/A
	Flame A, B, C or D		—
A.1.5	Test procedure		N/A
A.1.6	Compliance criteria		N/A
	Sample 1 burning time (s).....:		—
	Sample 2 burning time (s).....:		—
	Sample 3 burning time (s).....:		—
A.2	Flammability test for fire enclosures of movable equipment having a total mass not exceeding 18 kg, and for material and components located inside fire enclosures (see 4.7.3.2 and 4.7.3.4)		N/A
A.2.1	Samples		N/A
	Wall thickness (mm).....:		—
A.2.2	Conditioning of samples; temperature (°C)		N/A
A.2.3	Mounting of samples.....:		N/A
A.2.4	Test flame (see IEC 60695-11-4)		N/A
	Flame A, B or C		—
A.2.5	Test procedure		N/A
A.2.6	Compliance criteria		N/A
	Sample 1 burning time (s).....:		—
	Sample 2 burning time (s).....:		—
	Sample 3 burning time (s).....:		—
A.2.7	Alternative test acc. to IEC 60695-11-5, cl. 5 and 9		N/A
	Sample 1 burning time (s).....:		—
	Sample 2 burning time (s).....:		—
	Sample 3 burning time (s).....:		—

TRF No.: IEC60950_1A



Prodigy Technology

Consultant Co., Ltd.

Page 26 of 45

L101207-01-A0

EN 60950-1:2006			
Clause	Requirement - Test	Result - Remark	Verdict

A.3	Hot flaming oil test (see 4.6.2)		N/A
A.3.1	Mounting of samples		N/A
A.3.2	Test procedure		N/A
A.3.3	Compliance criterion		N/A

B	ANNEX B, MOTOR TESTS UNDER ABNORMAL CONDITIONS (see 4.7.2.2 and 5.3.2)		N/A
B.1	General requirements		N/A
	Position :		—
	Manufacturer :		—
	Type :		—
	Rated values :		—
B.2	Test conditions		N/A
B.3	Maximum temperatures		N/A
B.4	Running overload test		N/A
B.5	Locked-rotor overload test		N/A
	Test duration (days) :		—
	Electric strength test: test voltage (V) :		—
B.6	Running overload test for DC motors in secondary circuits		N/A
B.7	Locked-rotor overload test for DC motors in secondary circuits		N/A
B.7.1	General		N/A
B.7.2	Test procedure		N/A
B.7.3	Alternative test procedure		N/A
B.7.4	Electric strength test; test voltage (V) :		N/A
B.8	Test for motors with capacitors		N/A
B.9	Test for three-phase motors		N/A
B.10	Test for series motors		N/A
	Operating voltage (V) :		—



Prodigy Technology

Consultant Co., Ltd.

Page 27 of 45

L101207-01-A0

EN 60950-1:2006

Clause	Requirement - Test	Result - Remark	Verdict
--------	--------------------	-----------------	---------

C	ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3)	N/A
	Position :	—
	Manufacturer :	—
	Type :	—
	Rated values :	—
	Method of protection :	—
C.1	Overload test	N/A
C.2	Insulation	N/A
	Protection from displacement of windings :	—

D	ANNEX D, MEASURING INSTRUMENTS FOR TOUCH-CURRENT TESTS (see 5.1.4)	N/A
D.1		N/A
D.2	Alternative measuring instrument	N/A

E	ANNEX E, TEMPERATURE RISE OF A WINDING (see 1.4.13)	N/A
---	--	-----

F	ANNEX F, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES (see 2.10 and Annex G)	Pass
---	---	------

G	ANNEX G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES	N/A
G.1	Clearances	N/A
G.1.1	General	N/A
G.1.2	Summary of the procedure for determining minimum clearances	N/A
G.2	Determination of mains transient voltage (V)	N/A
G.2.1	AC mains supply :	N/A
G.2.2	Earthed d.c. mains supplies :	N/A
G.2.3	Unearthed d.c. mains supplies :	N/A
G.2.4	Battery operation :	N/A

TRF No.: IEC60950_1A



Prodigy Technology

Consultant Co., Ltd.

Page 28 of 45

L101207-01-A0

EN 60950-1:2006			
Clause	Requirement - Test	Result - Remark	Verdict

G.3	Determination of telecommunication network transient voltage (V)		N/A
G.4	Determination of required withstand voltage (V)		N/A
G.4.1	Mains transients and internal repetitive peaks:		N/A
G.4.2	Transients from telecommunication networks:		N/A
G.4.3	Combination of transients		N/A
G.4.4	Transients from cable distribution systems		N/A
G.5	Measurement of transient voltages (V)		N/A
	a) Transients from a mains supply		N/A
	For an a.c. mains supply		N/A
	For a d.c. mains supply		N/A
	b) Transients from a telecommunication network		N/A
G.6	Determination of minimum clearances		N/A

H	ANNEX H, IONIZING RADIATION (see 4.3.13)	N/A
---	--	-----

J	ANNEX J, TABLE OF ELECTROCHEMICAL POTENTIALS (see 2.6.5.6)	N/A
	Metal(s) used	—

K	ANNEX K, THERMAL CONTROLS (see 1.5.3 and 5.3.8)	N/A
K.1	Making and breaking capacity	No thermal control.
K.2	Thermostat reliability; operating voltage (V)	N/A
K.3	Thermostat endurance test; operating voltage(V):	N/A
K.4	Temperature limiter endurance; operating voltage (V)	N/A
K.5	Thermal cut-out reliability	N/A
K.6	Stability of operation	N/A

L	ANNEX L, NORMAL LOAD CONDITIONS FOR SOME TYPES OF ELECTRICAL BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.2)	Pass
L.1	Typewriters	N/A
L.2	Adding machines and cash registers	N/A



Prodigy Technology

Consultant Co., Ltd.

Page 29 of 45

L101207-01-A0

EN 60950-1:2006			
Clause	Requirement - Test	Result - Remark	Verdict
L.3	Erasers		N/A
L.4	Pencil sharpeners		N/A
L.5	Duplicators and copy machines		N/A
L.6	Motor-operated files		N/A
L.7	Other business equipment		Pass

M	ANNEX M, CRITERIA FOR TELEPHONE RINGING SIGNALS (see 2.3.1)	N/A
M.1	Introduction	N/A
M.2	Method A	N/A
M.3	Method B	N/A
M.3.1	Ringing signal	N/A
M.3.1.1	Frequency (Hz)	—
M.3.1.2	Voltage (V)	—
M.3.1.3	Cadence; time (s), voltage (V)	—
M.3.1.4	Single fault current (mA)	—
M.3.2	Tripping device and monitoring voltage.....	N/A
M.3.2.1	Conditions for use of a tripping device or a monitoring voltage	N/A
M.3.2.2	Tripping device	N/A
M.3.2.3	Monitoring voltage (V).....	N/A

N	ANNEX N, IMPULSE TEST GENERATORS (see 1.5.7.2, 1.5.7.3, 2.10.3.9, 6.2.2.1, 7.3.2, 7.4.3 and Clause G.5)	N/A
N.1	ITU-T impulse test generators	N/A
N.2	IEC 60065 impulse test generator	N/A

P	ANNEX P, NORMATIVE REFERENCES	Pass
---	--------------------------------------	------

Q	ANNEX Q, Voltage dependent resistors (VDRs) (see 1.5.9.1)	N/A
	a) Preferred climatic categories	N/A
	b) Maximum continuous voltage	N/A



Prodigy Technology

Consultant Co., Ltd.

Page 30 of 45

L101207-01-A0

EN 60950-1:2006			
Clause	Requirement - Test	Result - Remark	Verdict
	c) Pulse current:		N/A

R	ANNEX R, EXAMPLES OF REQUIREMENTS FOR QUALITY CONTROL PROGRAMMES	N/A
R.1	Minimum separation distances for unpopulated coated printed boards (see 2.10.6.2)	N/A
R.2	Reduced clearances (see 2.10.3)	N/A

S	ANNEX S, PROCEDURE FOR IMPULSE TESTING (see 6.2.2.3)	N/A
S.1	Test equipment	N/A
S.2	Test procedure	N/A
S.3	Examples of waveforms during impulse testing	N/A

T	ANNEX T, GUIDANCE ON PROTECTION AGAINST INGRESS OF WATER (see 1.1.2)	N/A
		—

U	ANNEX U, INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION (see 2.10.5.4)	N/A
	Separate test report	—

V	ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1)	N/A
V.1	Introduction	N/A
V.2	TN power systems	N/A

W	ANNEX W, SUMMATION OF TOUCH CURRENTS	N/A
W.1	Touch current from electronic circuits	N/A
W.1.1	Floating circuits	N/A
W.1.2	Earthed circuits	N/A
W.2	Interconnection of several equipments	N/A
W.2.1	Isolation	N/A



Prodigy Technology

Consultant Co., Ltd.

Page 31 of 45

L101207-01-A0

EN 60950-1:2006			
Clause	Requirement - Test	Result - Remark	Verdict
W.2.2	Common return, isolated from earth		N/A
W.2.3	Common return, connected to protective earth		N/A

X	ANNEX X, MAXIMUM HEATING EFFECT IN TRANSRORMER TESTS (see clause C.1)	N/A
X.1	Determination of maximum input current	N/A
X.2	Overload test procedure	N/A

Y	ANNEX Y, ULTRAVIOLET LIGHT CONDITIONING TEST (see 4.3.13.3)	N/A
Y.1	Test apparatus :	N/A
Y.2	Mounting of test samples :	N/A
Y.3	Carbon-arc light-exposure apparatus :	N/A
Y.4	Xenon-arc light exposure apparatus :	N/A

Z	ANNEX Z, OVERVOLTAGE CATEGORIES (see 2.10.3.2 and Clause G.2)	Pass
---	--	------

AA	ANNEX AA, MANDREL TEST (see 2.10.5.8)	N/A
----	--	-----

BB	ANNEX BB, CHANGES IN THE SECOND EDITION	N/A
----	--	-----



Prodigy Technology

Consultant Co., Ltd.

Page 32 of 45

L101207-01-A0

EN 60950-1:2006					
Clause	Requirement - Test		Result - Remark		Verdict

TABLE: List of critical components					Pass
object/part No.	manufacturer/ trademark	type/model	technical data	standard	mark(s) of conformity ¹⁾
01. Power Adapter (optional)	--	--	O/P: 12Vdc, 0.4A Minimum, complied with LPS.	EN60950-1	Certified by third party
02. Power from power over Ethernet adapter base unit (optional)	--	--	O/P: 48Vdc, 0.2A , complied with LPS.	EN60950-1	Certified by third party
03. Power from AC source (optional)	--	--	O/P: 24Vac, 50/60Hz, 0.3A Minimum, complied with LPS.	EN60950-1	Certified by third party
04. Enclosure	--	--	Al, 1.8 mm thickness minimum, overall 60 by 72 by 154.16 mm.	--	--
05. PWB	--	--	V-1 or better, 105 °C	UL 796	UL
06. Transformer of PoE Board (T1)	Coilcraft, Inc.	POE13F-12L	105 °C. See Enclosure 4-01	--	--
06a. Alternate of transformer of PoE Board (T1)	Acroparts Technology Co., Ltd.	POE13F-12L (13W12V)	105 °C. See Enclosure 4-02	--	--
Supplementary information:					



Prodigy Technology

Consultant Co., Ltd.

Page 33 of 45

L101207-01-A0

EN 60950-1:2006							
Clause	Requirement - Test			Result - Remark		Verdict	

1.6.2	TABLE: Electrical data (in normal conditions)						Pass
U (V)	I (A)	I rated (A)	P (W)	Fuse #	I fuse (A)	condition/status	
12Vdc	0.36	0.36	43.2	--	--	Maximum normal load	
48Vdc	0.11	0.16	5.28	--	--	Maximum normal load	
--	--	--	--	--	--	--	
24Vac/50Hz	0.289	--	4.24	--	--	Maximum normal load	
24Vac/60Hz	0.283	--	4.23	--	--	Maximum normal load	

"Maximum normal load" was defined as follows: Unit transfer video signal from RJ-45 connected to the computer and working continuously.

Table 2.2	SELV Reliability Test						Pass
Hazardous Voltage (Circuit) Measurement							
Clearance and creepage distance at/of:			Up (V)	U r.m.s. (V)	Limiting component		
T1 Pin 5,6 - 7,8			14.4Vac		T1		
No. Accessible Part From - To	Component No. (Voltage Limiting)	Fault	Test Voltage	Test time (Duration)	Fuse No.	Fuse Current (A)	Result Specify Maximum Vpk or V dc
Note(s):							

2.5	TABLE: Limited Power Source Measurements						Pass
(Inherently limited)							
Output Tested	Measured		Single Fault Condition	Maximum			Comments
	From	To		Uoc	Isc 5s	VA 5s	
Regulating network							
(48VdcPoE) General I/O Terminal Pin1	V+	V-	--	12.00	2.12	20.39	9.62V*2.12A=20.39VA
(12Vdc DC Jack) General I/O Terminal Pin1	V+	V-	--	11.85	2.12	20.82	9.82V*2.12A=20.82VA



Prodigy Technology

Consultant Co., Ltd.

Page 34 of 45

L101207-01-A0

EN 60950-1:2006							
Clause	Requirement - Test			Result - Remark			Verdict
(24Vac) General I/O Terminal Pin1	V+	V-	--	11.94	2.07	13.08	6.32V*2.07A=13.08VA
General I/O Terminal Pin3	V+	V-	--	6.30	0.01	0.01	0.42V*0.01A=0.01
General I/O Terminal Pin2,4-8	V+	V-	--	0	--	--	--
DC-iris Pin1,2	V+	V-	--	0	--	--	--
DC-iris Pin3,4	V+	V-	--	3.31	0.01	0.01	0.48V*0.01A=0.01VA
Inherently limited							
RJ-45 All pins	V+	V-	--	0	--	--	--
Audio Ports	V+	V-	--	0	--	--	--
Mic Ports	V+	V-	--	0	--	--	--
Video out Ports	V+	V-	--	0	--	--	--
Comments: 1.out put 12V LPS test only conducted on normal test waived abnormal test due to the power directly from Power source 12Vdc,24Vac,48Vdc(PoE) all complied with LPS 2.waived SD card port LPS test ,Due to the Port cored by metal enclosure							

2.6.3.4	TABLE: Earthing Test				N/A
Accessible Conductive Part	Current (Amps)	Voltage Drop (Volts)	Resistance (Ù)		
Note(s):					

2.10.2	TABLE: Working Voltage Measurement Test			Pass
Clearance and creepage distance dcr at/of:	Up (V)		U r.m.s. (V)	
T1 Pin1,2 - 8,7	3.20V		1.20V	
Pin1,2 - 5,6	3.20V		1.24V	
Pin11,12 - 8,7	88.6V		52.5V	
Pin11,12 - 5,6	104V		64.7V	
T1 Pin3 - 8,7	1.22V		0.89V	
Pin3 - 5,6	24.0V		11.2V	
Pin10 - 8,7	3.68V		0.91V	
Pin10 - 5,6	17.2V		12.1V	
C17 P-S	0.94V		0.85V	
U2 Pin 1-3	6.64V		6.13V	
Pin1-4	3.84V		3.61V	
Pin2-3	5.20V		4.97V	
Pin2-4	2.72V		2.54V	



Prodigy Technology

Consultant Co., Ltd.

Page 35 of 45

L101207-01-A0

EN 60950-1:2006

Clause	Requirement - Test	Result - Remark	Verdict
--------	--------------------	-----------------	---------

Note(s):

4.5 TABLE: Temperature rise measurements							Pass
	test voltage (V).....	See below	See below	--	--	--	--
	t1 (°C).....	--	--	--	--	--	--
	t2 (°C).....	--	--	--	--	--	--
maximum temperature T of part/at:		T (°C)					allowed Tmax (°C)
--	Maximum Normal Load at 12 Vdc	Maximum Normal Load at 12 Vdc (Shift to Tma 50 °C)	Maximum Normal Load at 48 Vdc	Maximum Normal Load at 48 Vdc (Shift to Tma 50 °C)	--	--	--
01.Ambient	20.9	50.0	22.1	50.0	--	--	--
02.DC jack	26.3	55.4	32.0	59.9	--	--	--
03.L28 coil	29.4	58.5	34.9	62.8	--	105	
04.L45 coil	31.0	60.1	36.7	64.6	--	105	
05.PWB under F3	32.1	61.2	38.3	66.2	--	105	
06.C41 body	31.7	60.8	38.5	66.4	--	85	
07.PWB under U3	31.2	60.3	35.9	63.8	--	105	
08.C8 body	31.2	60.3	44.7	72.6	--	85	
09.PWB under U2	32.3	61.4	44.6	72.5	--	105	
10.T1 coil	31.9	61.0	50.8	78.7	--	90	
11.T1 core	31.8	60.9	48.9	76.8	--	90	
12.L1 coil	33.1	62.2	41.7	69.6	--	105	
13.C17 body	32.3	61.4	47.1	75.0	--	85	
14.BT body	29.3	58.4	34.7	62.6	--	100	
15.PWB under U7	29.8	58.9	35.9	63.8	--	105	
16.PWB under X1	32.3	61.4	36.1	64.0	--	105	
17.Metal enclosure outside near U3	25.7	54.8	29.5	57.4	--	70	
Test duration:	1.7hrs	1.7hrs	3.5 hrs	3.5 hrs	--	--	--
--	Maximum Normal Load at 24 Vac	Maximum Normal Load at 24 Vac 60Hz (Shift to Tma 50 °C)	--	--	--	--	--
01.Ambient	19.7	50.0	--	--	--	--	--
02.DC jack	29.4	59.7	--	--	--	--	--
03.L28 coil	34.2	64.5	--	--	--	105	
04.L45 coil	39.1	69.4	--	--	--	105	
05.PWB under F3	38.9	69.2	--	--	--	105	
06.C41 body	36.3	66.6	--	--	--	85	
07.PWB under U3	32.7	63.0	--	--	--	105	
08.C8 body	34.9	65.2	--	--	--	85	

TRF No.: IEC60950_1A



Prodigy Technology

Consultant Co., Ltd.

Page 36 of 45

L101207-01-A0

EN 60950-1:2006

Clause	Requirement - Test	Result - Remark			Verdict
09.PWB under U2	35.5	65.8	--	--	105
10.T1 coil	35.4	65.7	--	--	90
11.T1 core	35.3	65.6	--	--	90
12.L1 coil	35.6	65.9	--	--	105
13.C17 body	36.1	66.4	--	--	85
14.BT body	31.0	61.3	--	--	100
15.PWB under U7	31.8	62.1	--	--	105
16.PWB under X1	33.5	63.8	--	--	105
17.Metal enclosure outside near U3	26.5	56.8	--	--	70
Test duration:	1.9hrs	1.9hrs	--	--	--
temperature T of winding:		R ₁ (Ω)	R ₂ (Ω)	T (°C)	allowed Tmax (°C) insulation class
--	--	--	--	--	--
supplementary information:					
Comments: The temperatures were measured under worst case normal mode defined in 1.2.2.1 and as described in 1.6.1 at voltages as described in 1.6.5. With a specified ambient temperature of 50°C, the max. temperature is calculated as follows: Components with: - max. absolute temp. of 105 °C (Choke) - max. absolute temp. of 85 °C (Capacitor) - max. absolute temp. of 105 °C (PCB) - max. absolute temp. of 100 °C (Photo coupler) - max. absolute temp. of 80 °C (Polyswitch) - User accessible area: - material is metal (70 °C)					



Prodigy Technology

Consultant Co., Ltd.

Page 37 of 45

L101207-01-A0

EN 60950-1:2006			
Clause	Requirement - Test	Result - Remark	Verdict

5.2	TABLE: electric strength tests, impulse tests and voltage surge tests		
Test voltage applied between:	Voltage shape (AC, DC, impulse, surge)	Test voltage (V)	Breakdown Yes / No
Functional:			
Test voltage applied between:	Voltage shape (AC, DC, impulse, surge)	Test voltage (V)	Breakdown Yes / No
T1(Coilcraft,Inc /POE13F-12L) Pri-Sec	AC	1350	NO
T1(AcropartsTechnologyCo,Ltd / POE13F-12L/13W12V) Pri-Sec	AC	1350	NO
One layer of insulation tape of T1(POE13F-12L)	AC	1350	NO
One layer of insulation tape of T1 (POE13F-12L/13W12V)	AC	1350	NO
Basic/supplementary:			
Test voltage applied between:	Voltage shape (AC, DC, impulse, surge)	Test voltage (V)	Breakdown Yes / No
Reinforced:			
Test voltage applied between:	Voltage shape (AC, DC, impulse, surge)	Test voltage (V)	Breakdown Yes / No
supplementary information:			

5.3	TABLE: Fault condition tests						N/A
	ambient temperature (°C)				See below		—
	model/type of power supply				--		—
	manufacturer of power supply				--		—
	rated markings of power supply				--		—
component No.	fault	test voltage (V)	test time	fuse No.	fuse current (A)	result	
--	--	--	--	--	--	--	
supplementary information:							

TRF No.: IEC60950_1A



Prodigy Technology

Consultant Co., Ltd.

Page 38 of 45

L101207-01-A0

EN 60950-1:2006

Clause	Requirement - Test	Result - Remark	Verdict
--------	--------------------	-----------------	---------

(COMPONENT FAILURE TEST; ABNORMAL OPERATION TEST; TRANSFORMER ABNORMAL OPERATION TEST) Result Abbreviations:

IP - Internal protection operated (list component).

CD - Components damaged (list damaged components).

NB - No indication of dielectric breakdown.

NT - Tissue paper remained intact.

CT - Constant Temperature Obtained.



Photographs

Supplement Id	Description
01	Overall View-1
02	Overall View-2
03	Connector View
04	Internal View-1
05	Internal View-2
06	Main board components side view
07	Main board foil side view
08	IO board components side view
09	IO board foil side view
10	PoE T1 board components side view
11	PoE T1 board foil side view

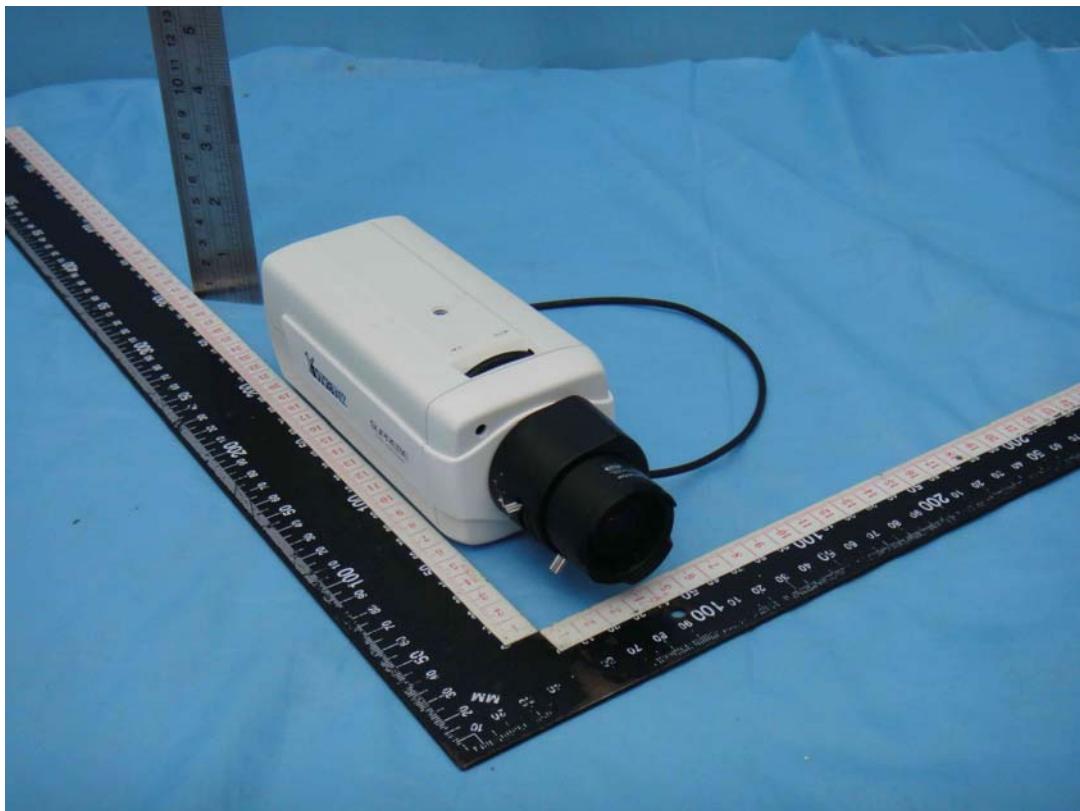


Prodigy Technology

Consultant Co., Ltd.

Page 40 of 45
ID-01

L101207-01-A0



ID-02



TRF No.: IEC60950_1A



Prodigy Technology

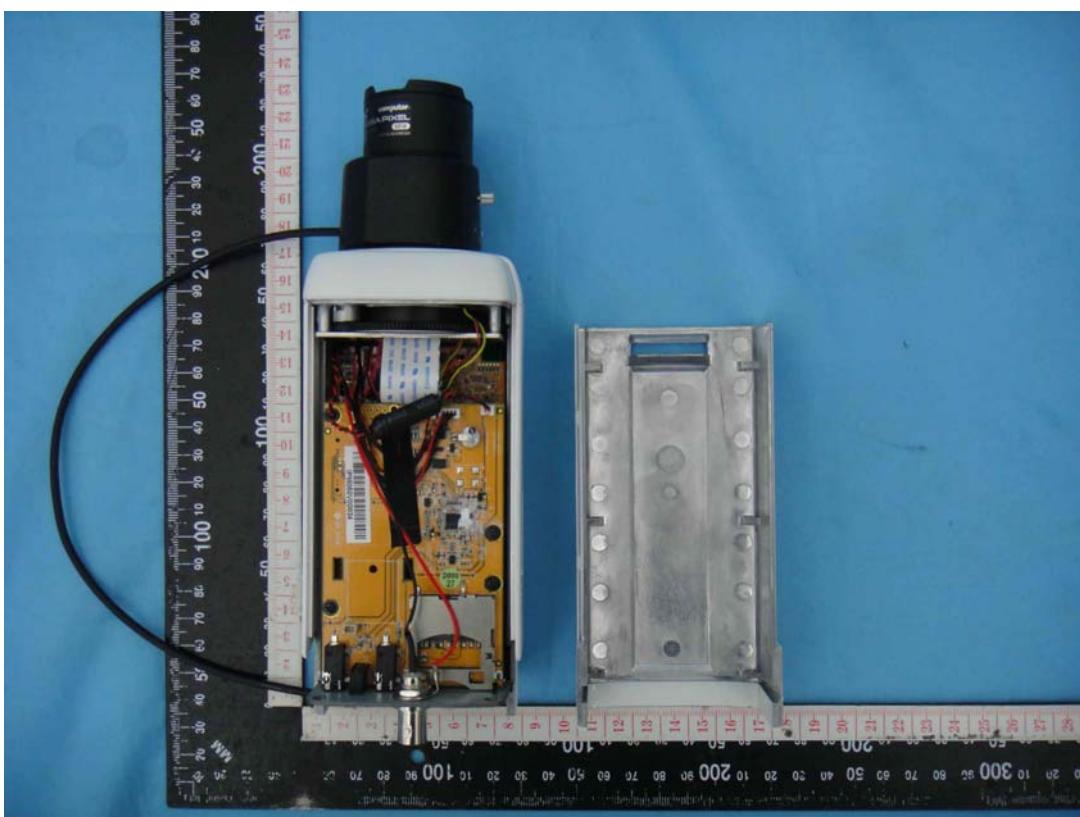
Consultant Co., Ltd.

Page 41 of 45
ID-03

L101207-01-A0



ID-04



TRF No.: IEC60950_1A

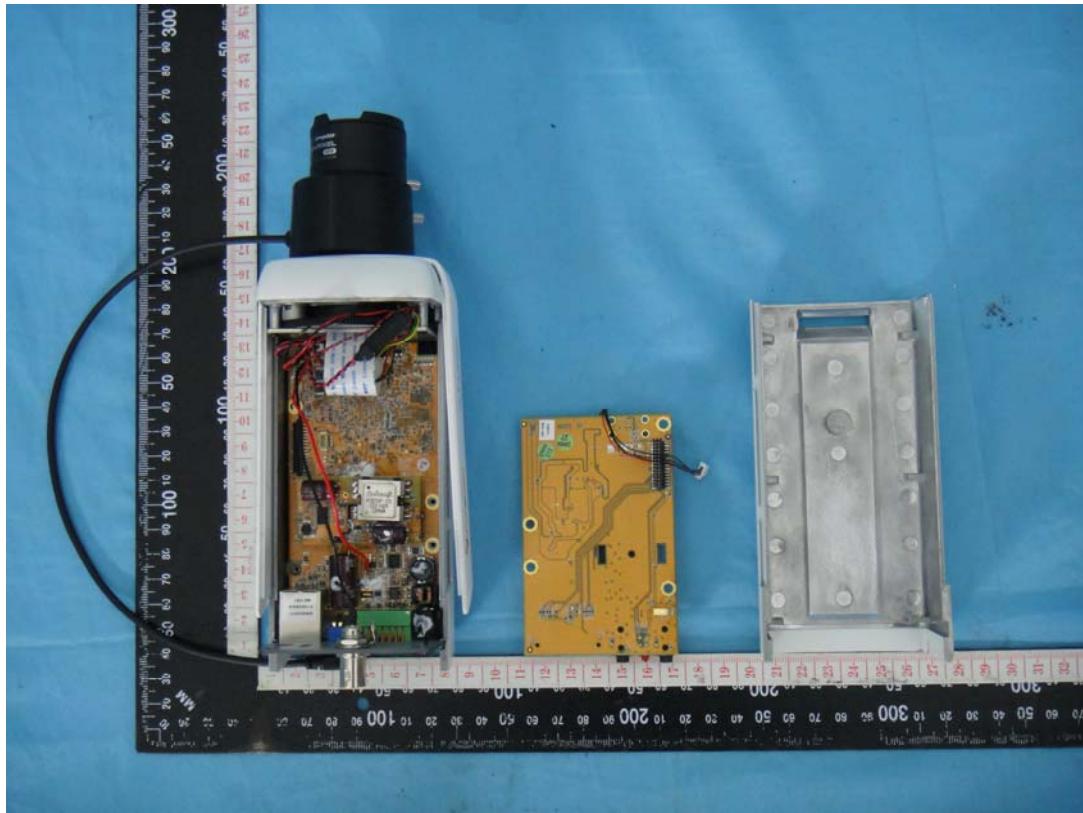


Prodigy Technology

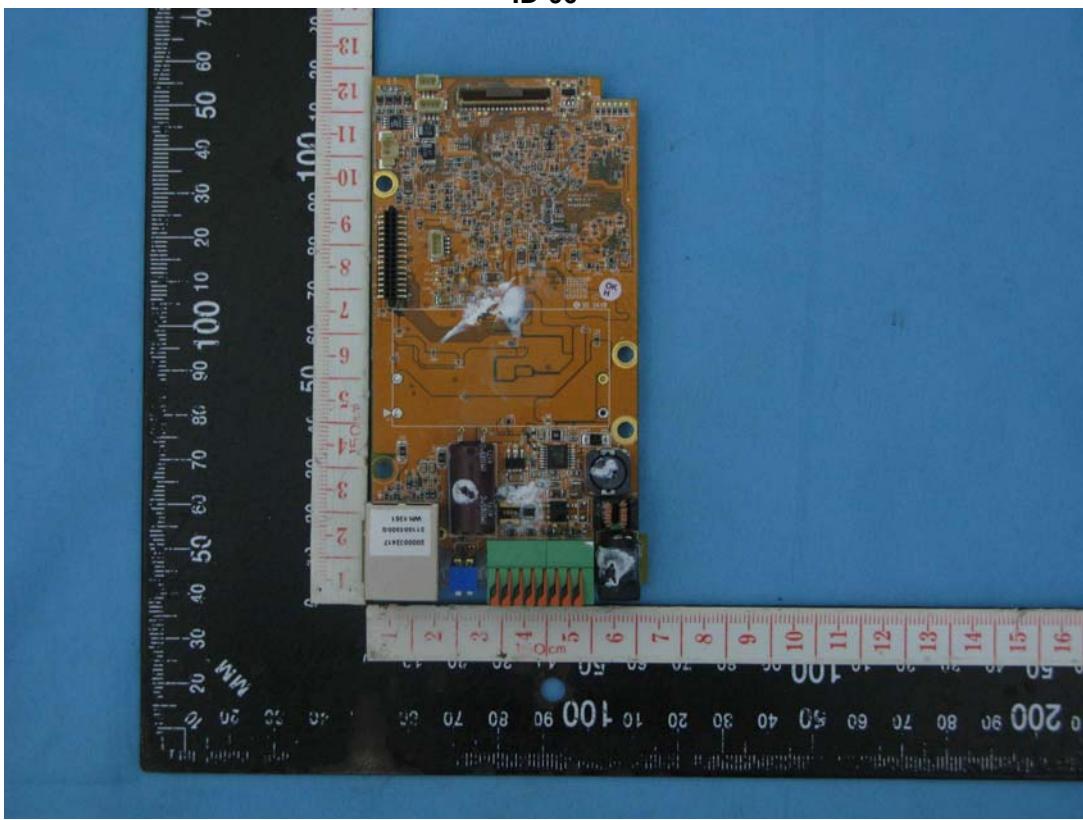
Consultant Co., Ltd.

Page 42 of 45
ID-05

L101207-01-A0



ID-06



TRF No.: IEC60950_1A

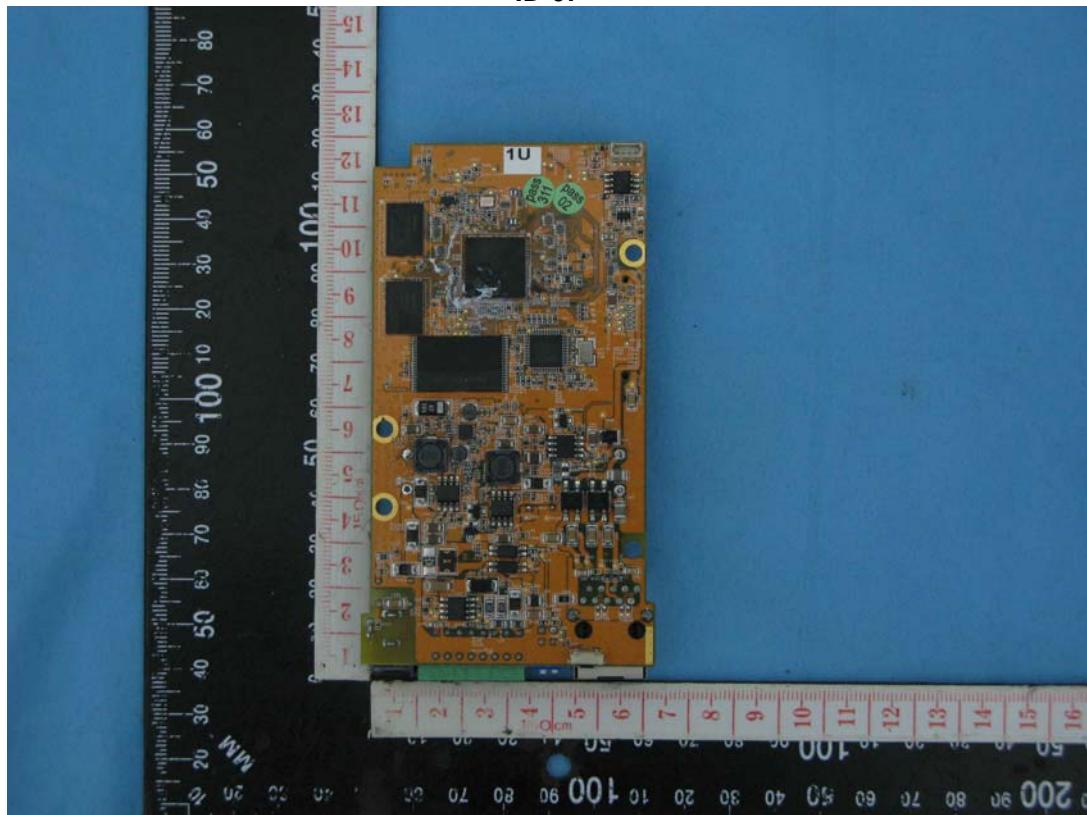


Prodigy Technology

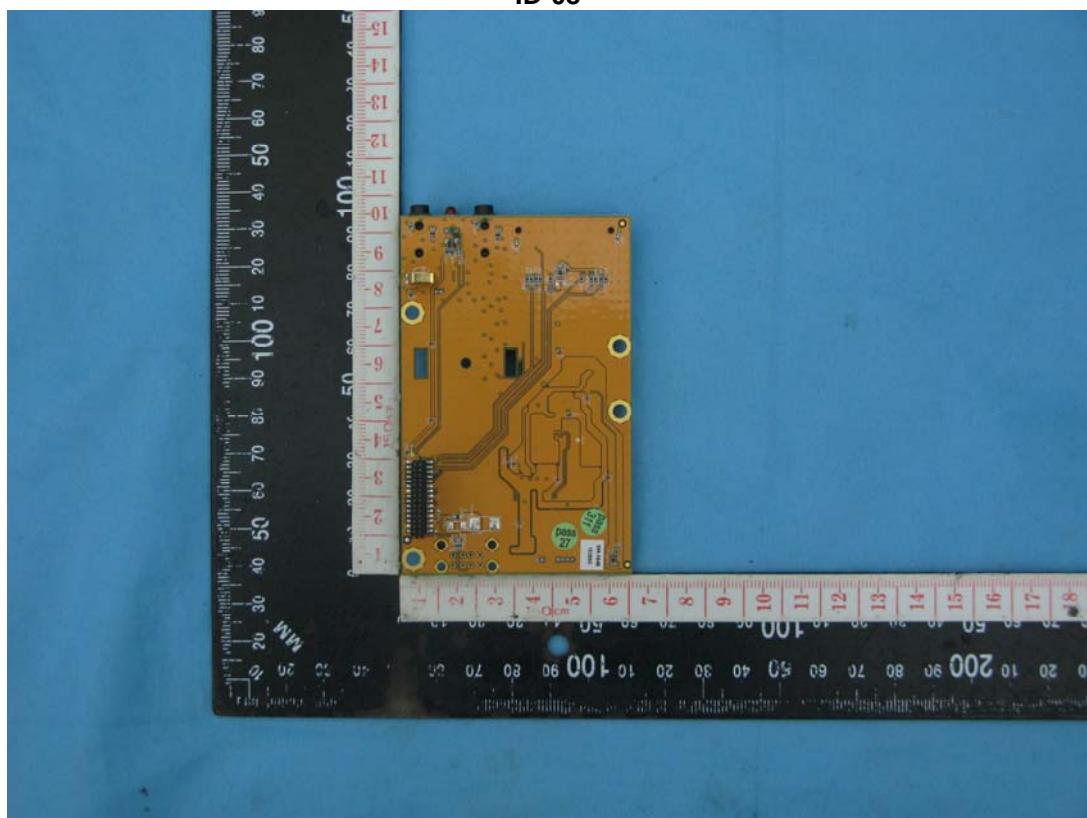
Consultant Co., Ltd.

Page 43 of 45
ID-07

L101207-01-A0



ID-08





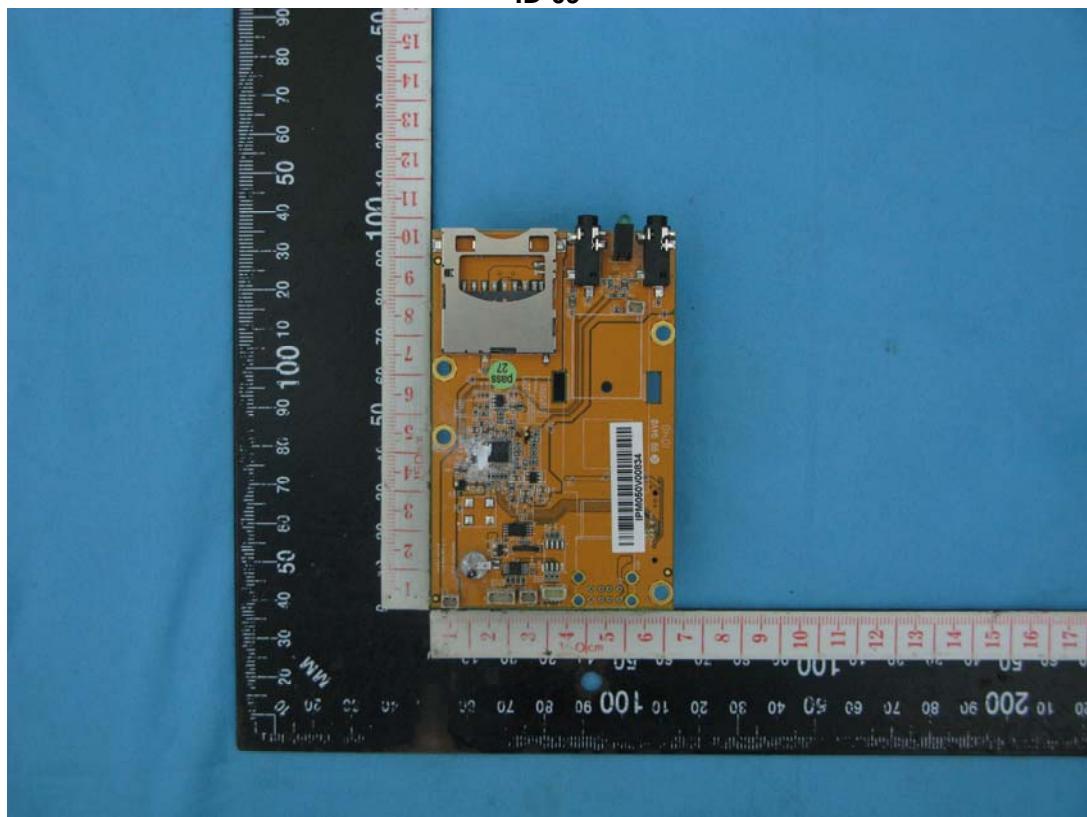
Prodigy Technology

Consultant Co., Ltd.

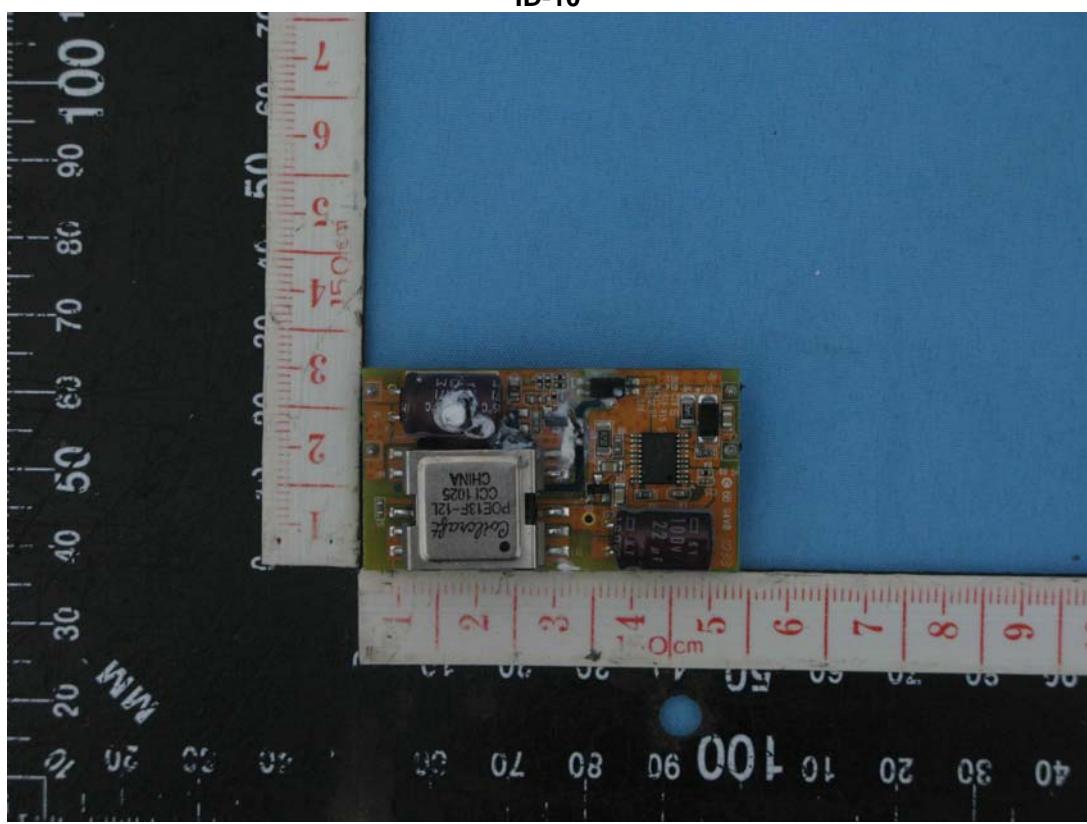
Page 44 of 45

ID-09

L101207-01-A0



ID-10



TRF No.: IEC60950_1A



Prodigy Technology

Consultant Co., Ltd.

Page 45 of 45
ID-11

L101207-01-A0

