TEST REPORT

EN 60065:2002

Audio, video and similar electronic apparatus Safety requirements

Report No.	S960056-1
Tested by (+ signature)	Gary Wang
Approved by (+ signature)	Peter Kao
Date of issue	August 21, 2007

Testing laboratory Name	PEP Testing Laboratory
Address	12F-3, No. 27-1, Lane 169, Kang Ning St., Hsi-Chih, Taipei Hsien, Taiwan 221
Testing location	Same as above

Client Name	YOKO TECHNOLOGY CORP.
Address	No.199,Lide St.,Jhonghe City,Taipei County 235,Taiwan R.O.C.
Standard	EN 60065:2002
Test procedure	CE LVD
Non-standard test method	N.A.

Test Report Form/blank test report	
Test Report Form No.	IECEN60065D
Master TRF	Dated 2003-01

Test item Description	CCD Camera
Trademark	YOKO TECHNOLOGY CORP.
Model and/or type reference	RYKxyzf (see page 2)
Manufacturer	YOKO TECHNOLOGY CORP. No.199,Lide St.,Jhonghe City,Taipei County 235,Taiwan R.O.C.
Rating(s)	Input: 110-240V~, 50/60 Hz, max 5W, Class II

Test case verdicts

Test case does not apply to the test object.....: N (Not Applicable)

Test item does meet the requirement .....: P (Pass)

Test item does not meet the requirement .....: F(Fail)

Testing

Date of receipt of test item .....: May 9, 2007

Date(s) of performance of test.....: May 9, 2007 –August 21, 2007

General remarks

This 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(s) tested.

"(see appended table)" refers to a table appended to the report.
"(see remark #)" refers to a remark appended to the report.
"(see Annex #) refers to an annex appended to the report.

Throughout this report a comma (point) is used as the decimal separator.

General product information

The EUT (Equipment Under Test) is a CCD Camera. The fire enclosure is made by metal. Used a separated approval power board.
The original Test Report Ref. No. S960056, dated July 10, 2007 was modified on August 21, 2007 to include the following addition(s): Report number: S960056-1.
Added new models, the model name information please see the following description :
Model name: **RYKxyzf**

x=4 or 7 (4=use colour CCD , 7=use black-and-white CCD)
y=2,6,7 (represents the different type of CCD Camera tubes)
z=0-9 or A-Z (diffrient resolution and size of CCD CAMERA)
f=A-Z or blank (different lens and additional function of CAMERA)

We took the model: RYK42X to represent the models, which used the power board R219500/2 and R219500/2LL.
If there are not any descriptions, we took the model RYK42X to represent the worst case of all models.

Attached with:

Annex A: Photos

Annex B: Critical components and materials

Summary of Testing and Conclusions

The sample(s) tested complies with the requirements of EN60065: 2002

Copy of marking plate

(Representative)

YOKO TECHNOLOGY CORP.

MODEL NO.: **RYKxyzf**
Input: 110-240V~, 50/60 Hz, max.5W

EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict
3	GENERAL REQUIREMENTS		P
	Safety class of the apparatus .....:	Class II apparatus.	P
4	GENERAL CONDITIONS OF TESTS		P
4.1.4	Ventilation instructions require the use of the test box		P
5	MARKING		P
	Comprehensible and easily discernible		P
	Permanent durability against water and petroleum spirit	After rubbing test by water and petroleum spirit, the label still easily discernible, indelible and legible.	P
5.1	Identification, maker, model.....:		P
	Class II symbol if applicable		P
	Rated supply voltage and symbol .....:	110-240 V~	P
	Frequency if safety dependant	50/60 Hz	P
	Rated current or power consumption .....:	Max.5W	P
5.2	Earth terminal	Class II equipment.	N
	Hazardous live terminals		N
	Supply output terminals (other than mains)		N
5.3	Use of triangle with exclamation mark	None	N
5.4	Instructions for use	User's manual was provided in English. Version of other languages will be provided when national approval.	P
5.4.1	Mains powered equipment not exposed to dripping or splashing. Warning concerning objects filled with liquid, etc.		P
	Hazardous live terminals, instructions for wiring	No terminals are hazardous live.	N
	Instructions for replacing lithium battery	No batteries used.	N
	Instructions for modem if fitted	No modem.	N
	Class I earth connection warning		N
	Instructions for multimedia system connection		N
	Special stability warning for fixed installation		N

EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict
5.4.2	Disconnect device: plug/coupler or all-pole mains switch location, accessibility and markings	The statement should be provided in the user's manual .The disconnected device is plug.	N
	Instructions for permanently connected equipment	The equipment is not a permanently connected apparatus.	N
6	HAZARDOUS RADIATION		N
6.1	Ionizing radiation < 36 pA/kg (0,5 mR/h)	No ionisation radiation or laser inside the equipment.	N
6.1 EN 60065	European Council Directive 96/29/Euratom of 13 May 1996 10cm from outer surface of apparatus <1 µSv/h (0.1mR/h)	Ditto.	N
6.2	Laser radiation, emission limits to IEC 60825-1 ... :	Ditto.	N
	Emission limits under fault conditions ..... :	Ditto.	N
7	HEATING UNDER NORMAL OPERATING CONDITIONS		P
7.1	Temperature rises not exceeding specified values, no operation of fuse links	(see appended table)	P
7.1.1	Temperature rise of accessible parts		P
7.1.2	Temperature rise of parts providing electrical insulation	(see appended table)	P
7.1.3	Temperature rise of parts acting as a support or as a mechanical barrier	No such device.	N
7.1.4	Temperature rise of windings	(see appended table)	P
7.1.5	Parts not subject to a limit under 7.1.1 to 7.1.4	(see appended table)	P
7.2	Softening temperature of insulating material supporting parts conductively connected to the mains carrying a current > 0,2 A at least 150 °C	Investigated during separated certification of power supply.	N
8	CONSTRUCTIONAL REQUIREMENTS WITH REGARD TO THE PROTECTION AGAINST ELECTRIC SHOCK		P
8.1	Conductive parts covered by lacquer, paper, untreated textile oxide films and beads etc. considered to be bare	Considered.	P

EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict
8.2	No shock hazard when changing voltage setting device, fuse-links or handling drawers etc.	Full voltage range design, no necessary adjustment and no fuse-link replaced and drawers handled while operation by hand.	N
8.3	Insulation of hazardous live parts not provided by hygroscopic material	No hygroscopic material used	N
8.4	No risk of electric shock following the removal of a cover which can be removed by hand	No cover can be removed by hand.	N
8.5	Class I equipment		P
	Basic insulation between hazardous live parts and earthed accessible parts		P
	Resistors bridging basic insulation complying with 14.2.1 a)	Investigated during separated certification of power supply.	N
8.6	ClassII equipment and Class II constructions within Class I equipment	Class II equipment.	P
	Reinforced or double insulation between hazardous live parts and accessible parts	Secondary circuit to primary circuit is separated by reinforced or double insulation.	P
	Components bridging reinforced or double insulation complying with 14.1 a) or 14.3	Investigated during separated certification of power supply.	N
	Basic and supplementary insulation each being bridged by a capacitor complying with 14.2.1 a)	Ditto	N
	Reinforced or double insulation being bridged with 2 capacitors in series complying with 14.2.1 a)	Ditto	N
	Reinforced or double insulation being bridged with a single capacitor complying with 14.2.1 b)	Ditto	N
	Basic insulation bridged by components complying with 14.3.4.3	Ditto	N
8.7	Basic insulation between parts at 35 V to 71 V (peak) a.c. or 60 V to 120 V d.c. and accessible parts	No rated supply voltage in the range of these voltages.	N
	Reinforced or double insulation between circuits operating at voltages between 35 V and 71 V (peak) a.c. or between 60 V and 120 V d.c. and hazardous live parts at higher voltage	Ditto.	N
	Separation by Class II isolating transformer	Investigated during separated certification of power supply.	N
	Separation by Class I transformer		N
	Separation by earthed conductive part		N

EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict
8.8	Basic or supplementary insulation > 0,4 mm (mm) ..... :		P
	Reinforced insulation > 0,4 mm (mm) ..... :	The tubes are provided on the internal wire of CCD camera, which providing reinforced insulation. And the photo-coupler is investigated during the separate certification of power supply.	P
	Thin sheet insulation	Investigated during the separate certification of power supply.	N
	Basic or supplementary insulation, at least two layers, each meeting 10.3	Ditto	N
	Basic or supplementary insulation, three layers any two of which meet 10.3	Ditto	N
	Reinforced insulation, two layers each of which meet 10.3	Ditto	N
	Reinforced insulation, three layers any two which meet 10.3	Ditto	N
8.9	Adequate insulation between internal hazardous live conductors and accessible parts		P
	Adequate insulation between internal hazardous live parts and conductors connected to accessible parts		P
8.10	Double insulation between conductors connected to the mains and accessible parts		P
8.11	Detaching of wires		P
	No undue reduction of creepages or clearance distances if wires become detached		P
	Vibration test carried out ..... :		N
8.12	Adequate cross-sectional area of internal wiring to mains socket-outlets	No mains socket outlet.	N
8.13	Adequate fastening of windows, lenses, lamp covers etc. (pull test 20 N for 10 s)		P
8.14	Adequate fastening of covers (pull test 50 N for 10 s)		P
8.15	No risk of damage to the insulation of internal wiring due to hot parts or sharp edges		P
8.16	Only special supply equipment can be used	Supply from mains only.	N

EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict
8.17	Insulated winding wire without additional interleaved insulation	Investigated during the separated certificated of power supply board.	N
8.18	Endurance test as required by 8.17	Ditto	N
8.19	Disconnection from the mains	See below.	P
8.19.1	Disconnect device	Mains plug as the disconnect device.	P
	All-pole switch or circuit breaker with >3mm contact separation		N
8.19.2	Mains switch ON indication	No switches.	N
8.20	Switch not fitted in the mains cord	No switches.	N
8.21	Bridging components comply with clause 14		N
9	ELECTRIC SHOCK HAZARD UNDER NORMAL OPERATING CONDITIONS		P
9.1	Testing on the outside		P
9.1.1	For voltages >1000 V ac or >1500 V dc complies with clause 13.3.1 for basic insulation		N
9.1.1.1	Touch current measured from terminal devices using the network in annex D .....:		P
	Discharge not exceeding 45 µC		N
	Energy of discharge not exceeding 350 mJ		N
9.1.1.2	Test with test finger and test probe	.	N
9.1.2	No hazardous live shafts of knobs, handles or levers	No operating knobs, handles, levers used.	N
9.1.3	Ventilation holes tested by means of 4 mm x 100 mm test pin	No ventilation holes in the whole enclosure.	N
9.1.4	Terminal devices tested with 1 mm x 20 mm test pin (10 N); test probe D of IEC 61032		P
	Terminal devices tested with 1 mm x 100 mm straight wire (1 N); test probe D of IEC 61032		P
9.1.5	Pre-set controls tested with 2 mm x 100 mm test pin (10 N); test probe C of IEC 61032		P
9.1.6	No shock hazard due to stored charge on withdrawal of the mains plug; voltage (V) after 2 s :	After 2 sec. The measured voltage is 0V.	P
	If C is not greater than 0,1 µF no test needed		N
9.1.7	Enclosure sufficiently resistant to external force		N
	Test probe 11 of IEC 61032 for 10 s (50 N)	Ditto.	N

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Clause	Requirement – Test	Result - Remark	Verdict
	Test hook of fig. 4 for 10 s (20 N)	Ditto.	N
	30 mm diameter test tool for 5 s (100 or 250 N) ... :	Ditto.	N
9.2	No hazard after removing a cover by hand	No cover can be removed by hand.	N
10	INSULATION REQUIREMENTS		P
10.1	Insulation resistance (MO) at least 2 MO min. after surge test for basic and 4 MO min. for reinforced insulation ..... :	More than 4 MO	P
10.2	Humidity treatment 48 h or 120 h ..... :	48h	P
10.3	Insulation resistance and dielectric strength	(see appended table)	P

EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict
11	FAULT CONDITIONS		P
11.1	No shock hazard under fault condition		P
11.2	Heating under fault condition	(see appended table)	P
	No hazard from softening solder		P
11.2.1	Measurement of temperature rises	(see appended table)	P
11.2.2	Temperature rise of accessible parts	No accessible parts.	N
11.2.3	Temperature rise of parts, other than windings, providing electrical insulation	(see appended table)	P
	Temperature rise of printed circuit boards (PCB) exceeding the limits of table 3 by max. 100 K for max. 5 min	Temperatures were not exceeded.	N
	a) Temperature rise of printed circuit boards (PCB) to 20.1.3, exceeding the limits of table 3 by not more than 100 K for an area not greater than 2 cm^2	Temperatures were not exceeded.	N
	b) Temperature rise of printed circuit boards (PCB) to 20.1.3 up to 300 K for an area not greater than 2 cm^2 for a maximum of 5 min	Temperatures were not exceeded.	N
	Meets all the special conditions if conductors on printed circuit boards are interrupted		N
	Class I protective earthing maintained		N
11.2.4	Temperature rise of parts acting as a support or mechanical barrier	No such parts	N
11.2.5	Temperature rise of windings	(see appended table)	P
11.2.6	Temperature rise of parts not subject to the limits of 11.2.1 to 11.2.5	(see appended table)	P
12	MECHANICAL STRENGTH		P
12.1.1	Bump test where mass >7 kg	＜7kg	N
12.1.2	Vibration test	Not transportable or portable apparatus.	N
12.1.3	Impact hammer test	No damage to the equipment after the impact test.	P
	Steel ball test	No damaged.	P
12.1.4	Drop test for portable apparatus where mass < 7 kg	Not portable apparatus.	N
12.1.5	Thermoplastic enclosures stress relief test	Metal enclosure.	N
12.2	Fixing of knobs, push buttons, keys and levers	No such parts.	N

EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict
12.3	Remote controls with hazardous live parts		N
12.4	Drawers (pull test 50 N, 10 s)	No drawers.	N
12.5	Antenna coaxial sockets providing isolation		N
12.6	Telescoping or rod antennas construction	No such construction.	N
12.6.1	Telescoping or rod antennas securement	Ditto.	N
13	CLEARANCE AND CREEPAGE DISTANCES		P
13.1	Clearances in accordance with 13.3	See 13.3	P
	Creepage distances in accordance with 13.4	See 13.4	P
13.2	Determination of operating voltage	(see appended table)	P
13.3	Clearances	See below.	P
13.3.2	Circuits conductively connected to the mains comply with table 8 and, where applicable, table 9	(see appended table)	P
13.3.3	Circuits not conductively connected to the mains comply with table 10		N
13.4	Creepage distances	(see appended table)	P
	Creepage distances greater than table 11 minimum		P
13.5	Printed boards	Not applied for.	N
13.5.1	Clearances and creepage distances between conductors on printed circuit boards, one of which may be conductively connected to the mains, as in fig. 10	Ditto.	N
13.5.2	Type B coated printed circuit boards complying with IEC 60664-3 (basic insulation only)	Ditto.	N
13.6	Conductive parts along uncemented joints clearances and creepage distances comply with 13.3 and 13.4	No such components.	N
	Conductive parts along reliably cemented joints comply with 8.8	Ditto.	N
13.7	Enclosed, enveloped or hermetically sealed parts: not conductively connected to the mains: clearances and creepage distances as in table 12	No such a construction.	N
13.8	Parts filled with insulating compound, meeting the requirements of 8.8	Investigated during the separated certificated of power supply board.	N

EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict
14	COMPONENTS		P
14.1	Resistors		N
	a) Resistors between hazardous live parts and accessible metal parts	Investigated during the separated certificated of power supply board.	N
	b) Resistors, other than between hazardous live parts and accessible parts	Ditto.	N
	b) Resistors separately approved .....:	Ditto.	N
14.2	Capacitors and RC units	Investigated during the separated certificated of power supply board.	N
	Capacitors separately approved		N
14.2.1	Y capacitors tested to IEC 60384-14, 2nd edition ..:		N
14.2.2	X capacitors tested to IEC 60384-14, 2nd edition ..:		N
14.2.3	Capacitors operating at mains frequency but not connected to the mains: tests for X2 .....:		N
14.2.5	Capacitors with volume exceeding 1750 mm³, where short-circuit current exceeds 0,2 A: compliance with IEC60384-1, 4.38 category B or better .....:		N
	Capacitors with volume exceeding 1750 mm³, mounted closer to a potential ignition source than table 5 permits: compliance with IEC 60 384-1, 4.38 category B or better .....:	Ditto.	N
	Shielded by a barrier to V-0 or metal .....:		N
14.3	Inductors and windings	Investigated during the separated certificated of power supply board.	N
	Comply with IEC 61558-1, IEC 61558-2 (as relevant) and clause 20.1.4		N
14.3.1	Transformers and inductors marked with manufacturer's name and type .....:	Investigated during the separated certificated of power supply board.	N
	Transformers and inductors separately approved :	Ditto	N
14.3.2	General	See 14.3.3,14.3.4 and 14.3.5.	P
14.3.3	Constructional requirements	See below.	P
14.3.3.1	Clearances and creepage distances comply with clause 13	(see attached table)	P

EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict
14.3.3.2	Transformers meet the constructional requirements	Investigated during the separated certificated of power supply board.	N
14.3.4.1	Class II transformers have adequate separation between hazardous live parts and accessible parts (double or reinforced insulation)	Investigated during the separated certificated of power supply board.	N
	Coil formers and partition walls > 0,4 mm		N
14.3.4.2	Class I transformers, with basic insulation and protective screening only if all 7 conditions of 14.3.4.2 are met		N
14.3.4.3	Separating transformers with at least basic insulation		N
14.3.5.1	Class II transformers have adequate insulation between hazardous live parts and accessible parts (double or reinforced insulation)	Investigated during the separated certificated of power supply board.	N
	Coil formers and partition walls > 0,4 mm		N
14.3.5.2	Class I transformers have adequate insulation between hazardous live parts and accessible conductive parts or those conductive parts or protective screens connected to a protective earth terminal	Investigated during the separated certificated of power supply board.	N
	Winding wires connected to protective earth have adequate current-carrying capacity		N
14.4	High voltage components	No such components.	N
	High-voltage components and assemblies: U > 4 kV (peak) separately approved	Ditto.	N
	Component meets category V-1 of IEC 60707	Ditto.	N
14.4.1	High voltage transformers and multipliers tested as part of the submission	Ditto.	N
14.4.2	High voltage assemblies and other parts tested as part of the submission	Ditto.	N
14.5	Protective devices		P
	Protective devices used within their ratings		P
	External clearances and creepage distances meet requirement of clause 13 for the voltage across the device when opened		P
14.5.1.1	a) Thermal cut-outs separately approved	No thermal cut-outs used.	N
	b) Thermal cut-outs tested as part of the submission	Ditto.	N
14.5.1.2	a) Thermal links separately approved	No thermal links used.	N

EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict
	b) Thermal links tested as part of the submission	Ditto.	N
14.5.1.3	Thermal devices re-settable by soldering	No such components.	N
14.5.2.1	Fuse-links in the mains circuit according to IEC 60127	Investigated during the separated certificated of power supply board.	N
14.5.2.2	Correct marking of fuse-links adjacent to holder ..:	Ditto.	N
14.5.2.3	Not possible to connect fuses in parallel .....:	Ditto.	N
14.5.2.4	Not possible to touch hazardous live parts when replacing fuse-links without the use of a tool .....:		N
14.5.3	PTC-S thermistors comply with IEC 60730-1	No such components.	N
	PTC-S devices (15 W) category V-1 or better	Ditto.	N
14.5.4	Circuit protectors have adequate breaking capacity and their position is correctly marked	No such components.	N
14.6	Switches	No such components.	N
14.6.1 a)	Separate testing to IEC 61058 including: 10 000 operations Normal pollution suitability Resistance to heat and fire level 3 and V-0 compliance with annex G, G.1.1		N
14.6.1 b)	Tested in the apparatus:		N
	Switch controlling > 0.2A with open contact voltage > 35 V (peak)/24 V dc complying with 14.6.3, 14.6.4 and V-0 in annex G, G.1.1		N
	Switch controlling > 0.2A with open contact voltage < 35 V (peak)/24 V dc complying with 14.6.3 and V-0 in annex G, G.1.1		N
	Switch controlling < 0.2A with open contact voltage > 35 V (peak)/24 V dc complying with 14.6.4 and V-0 in annex G, G.1.1		N
14.6.2	Switch tested to 14.6.1 b) constructed to IEC 61058-1 subclause 13.1 and has making/breaking action independent of speed of actuation		N
14.6.3	Switch tested to 14.6.1 b) compliant with IEC 61058-1 subclause 16.2.2 d) and m) not attaining excessive temperatures in use		N
14.6.4	Switch tested to 14.6.1 b) has adequate dielectric strength		N

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Clause	Requirement – Test	Result - Remark	Verdict
14.6.5	Mains switch controlling mains socket outlets additional tests to IEC 60058-1		N
	Socket outlet current marking correct		N
14.7	Safety interlocks	No safety interlocks.	N
	Safety interlocks to 2.8 of IEC 60950		N
14.8	Voltage setting devices	Full range voltage design, no necessary adjustment.	N
	Voltage setting device not likely to be changed accidentally		N
14.9	Motors	No motors.	N
14.9.1	Endurance test on motors		N
	Motor start test		N
	Dielectric strength test		N
14.9.2	Not adversely affected by oil or grease etc.		N
14.9.3	Protection against moving parts	No moving parts.	N
14.9.4	Motors with phase-shifting capacitors, three-phase motors and series motors meet clause. B.8, B.9 and B.10 of IEC 60950, Annex B		N
14.10	Batteries	No battery.	N
14.10.1	Batteries mounted with no risk of accumulation of flammable gases		N
14.10.2	No possibility of recharging non-rechargeable batteries		N
14.10.3	Recharging currents and times within manufacturers limits		N
	Lithium batteries discharge and reverse currents within the manufacturers limits		N
14.10.4	Battery mould stress relief		N
14.10.5	Battery drop test		N
14.11	Optocouplers	Investigated during the separated certificated of power supply board.	N
	Optocouplers comply with Cl. 8		N
	Internal and external dimensions to 13.1. or alternatively 13.6 (jointed insulation)		N
14.12	Surge suppression varistors	Investigated during the separated certificated of power supply board.	N

EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict
	Comply with IEC 61051-2		N
	Not connected between mains and accessible parts except for earthed parts of permanently connected apparatus		N
	Complies with the current pulse, fire hazard and thermal stress requirements of 14.12		N
15	TERMINALS		P
15.1.1	Mains plug, appliance inlet, interconnection couplers and mains socket-outlet meet the appropriate standard	Approved mains plug used.	P
15.1.2	Connectors for antenna, earth, audio, video or data:		P
	No risk of insertion in mains socket-outlets	No such components.	N
	No risk of insertion into audio or video: outlets marked with the symbol of 5.2	No such components.	N
15.1.3	Output terminals of a.c. adaptors or similar devices not compatible with household mains socket-outlets	Ditto.	N
15.2	Provision for protective earthing		N
	Accessible conductive parts of Class I equipment reliably connected to earth terminal, within equipment	Class II equipment.	N
	Class I supply equipment with non-hazardous live output voltage: output circuit not connected to earth		N
	Protective earth conductors correctly coloured		N
	Equipment with non-detachable mains cord provided with separate protective earth terminal near mains input		N
	Protective earth terminal resistant to corrosion		N
	Earth resistance test: < 0,1 Ω at 25 A .....:		N
15.3	Terminals for external flexible cords and for permanent connection to the mains supply		P
15.3.1	Adequate terminals for connection of permanent wiring		N
15.3.2	Reliable connection of non-detachable cords:		P
	Not soldered to conductors of a printed circuit board		P

EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict
	Adequate clearances and creepage distances between connections should a wire break away		P
	Wire secured by additional means to the conductor		P
15.3.3	Screws and nuts clamping conductors have adequate threads: ISO 261, ISO 262 or similar		N
15.3.4	Soldered conductors wrapped around terminal prior to soldering or held in place by additional means		P
	Clamping of conductor and insulation if not soldered or held by screws		N
15.3.5	Terminals allow connection of appropriate cross-sectional area of conductors, for the rated current of the equipment		P
15.3.6	Terminals to 15.3.3 have sizes required by table 16		P
15.3.7	Terminals clamp conductors between metal and have adequate pressure		P
	Terminals designed to avoid conductor slipping out when tightened or loosened		P
	Terminals adequately fixed to avoid loosening when the clamping is tightened or loosened and stress on internal wiring is avoided		P
15.3.8	Terminals carrying a current more than 0,2 A: contact pressure not transmitted by insulating material except ceramic		N
15.3.9	Termination of non-detachable cords: wires terminated near to each other	The equipment was provided with non-detachable cords.	P
	Terminals located and shielded: test with 8 mm strand		P
15.4	Devices forming a part of the mains plug	Not direct plug-in equipment.	N
15.4.1	No undue strain on mains socket-outlets		N
15.4.2	Device complies with standard for dimensions of mains plugs		N
15.4.3	Device has adequate mechanical strength (tests a,b,c)		N

16	EXTERNAL FLEXIBLE CORDS		P
16.1	Mains cords sheathed type, complying with IEC 60227 for PVC or IEC 60245 for synthetic rubber cords .....:	Used certified mains plug.	P

EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict
	Non-detachable cords for Class I have green/yellow core for protective earth		P
16.2	Mains cords conductors have adequate cross-sectional area for rated current consumption of the equipment		P
16.3	a) Flexible cords not complying with 16.1, used for interconnections between separate units of equipment used in combination and carrying hazardous live voltages, have adequate dielectric strength		N
	b) Flexible cords not complying with 16.1, withstand bending and mechanical stress (3.2 of IEC 60227-2)		N
16.4	Flexible cords used for connection between equipment have adequate cross-sectional areas to avoid temperature rise under normal and fault conditions		P
16.5	Adequate strain relief on external flexible cords		P
	Not possible to push cord back into equipment		P
	Strain relief device unlikely to damage flexible cord		P
	For mains cords of Class I equipment, hazardous live conductors become taut before earth conductor		P
16.6	Apertures for external flexible cord: no risk of damage to the cord during assembly or movement in use		P
16.7	Transportable musical instruments and amplifiers fitted with detachable cord set with appliance inlet to IEC 60320-1		N
	Transportable musical instruments and amplifiers fitted with detachable cord sets or with means of stowage to protect the cord		N
17	ELECTRICAL CONNECTIONS AND MECHANICAL FIXINGS		P
17.1	Torque test to table 20:		P
	- screws into metal: 5 times		P
	- screws into non-metallic material: 10 times		N
17.2	Correct introduction into female threads in non-metallic material		N
17.3	Cover fixing screws: captive		P

EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict
	Non-captive fixing screws: no hazard when replaced by a screw whose length is 10 times its diameter		N
17.4	No loosening of conductive parts carrying a current > 0,2 A		N
17.5	Contact pressure not transmitted through plastic other than ceramic for connections carrying a current > 0,2 A		N
17.6	Stranded conductors of flexible supply cords carrying a current > 0,2 A with screw terminals not consolidated by solder		P
17.7	Cover fixing devices other than screws have adequate strength and their positioning is unambiguous		N
17.8	Fixing devices for detachable legs or stands provided	No detachable legs or stands.	N
17.9	Internal pluggable connections, affecting safety, unlikely to become disconnected		N
18	MECHANICAL STRENGTH OF PICTURE TUBES AND PROTECTION AGAINST THE EFFECTS OF IMPLOSION *No picture tube.*		N
	Picture tube separately approved to IEC 61965:		N
	Picture tube separately approved to 18.1		N
18.1	Picture tubes > 16 cm intrinsically protected		N
	Non-intrinsically protected tubes > 16 cm used with protective screen		N
18.2	Intrinsically protected tubes: tests on 12 samples		N
18.2.1	Samples subject to ageing: 6		N
18.2.2	Samples subject to implosion test: 6		N

EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict
18.2.3	Samples subject to mechanical strength test (steel ball): 6		N
18.3	Non-intrinsically protected tubes tested to 18.3		N
19	STABILITY AND MECHANICAL HAZARDS		P
	Mass of the equipment exceeding 7 kg .....:	＜7kg	N
	Apparatus intended to be fastened in place – suitable instructions		N
19.1	Test on a plane, inclined at 10^{o} to the horizontal		N
19.2	100 N force applied vertically downwards		N
19.3	Apparatus mass > 25 kg or height > 1 M or supplied with cart or stand		N
19.4	Edges or corners not hazardous		P
19.5	Glass surfaces with an area exceeding 0,1 m² or maximum dimension > 450 mm, pass the test of 19.5.1		N
19.6	Wall or ceiling mountings adequate		N
20	RESISTANCE TO FIRE		P
20.1	Electrical components and mechanical parts		N
	a) Exemption for components contained in an enclosure of material V-0 to IEC 60707 with openings not exceeding 1 mm in width	Metal enclosure.	N
	b) Exemption for small components as defined in 20.1		N
20.1.1	Electrical components meet the requirements of Clause 14 or 20.1.4	See sub clause 14 and 20.1.4.	P
20.1.2	Insulation of internal wiring working at voltages > 4 Kv or leaving an internal fire enclosure, not contributing to the spread of fire		N

EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict
20.1.3	Material of printed circuit boards on which the available power exceeds 15 W at a voltage between 50 V and 400 V (peak) a.c. or d.c. meets V-1 or better to IEC60707, unless used in a fire enclosure	V-0, not exceeds 15 W.	N
	Material of printed circuit boards on which the available power exceeds 15 W at a voltage >400 V (peak) a.c. or d.c. meets V-0 to IEC 60707		N
20.1.4	Components and parts not covered by 20.1.1, 20.1.2 and 20.1.3 (other than fire enclosures) mounted nearer to a potential ignition source than the distances in Table 21 comply with the relevant flammability category in Table 21		P
	Components and parts as above but shielded from a potential ignition source, with the barrier area in accordance with Table 21 and fig. 13		N
20.2	Fire enclosure	Metal	P
20.2.1	Potential ignition sources with open circuit voltage > 4 kV (peak) a.c. or d.c. contained in a fire enclosure to V-1		N
20.2.2	Internal fire enclosures with openings not exceeding 1 mm in width and with openings for wires completely filled	No openings.	N
20.2.3	Requirements of 20.2.1 and 20.2.2 met by an internal fire enclosure	No internal fire enclosure.	N

EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict
A	APPENDIX A, ADDITIONAL REQUIREMENTS FOR APPARATUS WITH PROTECTION AGAINST SPLASHING WATER		N
A.5.1	j) Marked with IPX4 (IEC 60529), 5.4.1 a) does not apply		N
A.10.2.1	Enclosure provides protection against splashing water		N
A.10.2.2	Humidity treatment carried out for 7 days		N
B	APPENDIX B, APPARATUS TO BE CONNECTED TO THE TELECOMMUNICATION NETWORKS		N
	Complies with IEC 62151 clause 1		N
	Complies with IEC 62151 clause 2		N
	Complies with IEC 62151 clause 3 but with 3.5.4 modified to 2.4.10 of this standard		N
	Complies with IEC 62151 clause 4 but with 4.1.2, 4.1.3 and 4.2.1.2 modified in accordance with annex B of this standard		N
	Complies with IEC 62151 cause 5 but with 5.3.1 modified in accordance with annex B of this standard		N
	Complies with IEC 62151 clause 6		N
	Complies with IEC 62151 clause 7		N
	Complies with IEC 62151 annex A, B and C		N

EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict

Annex ZB
(normative)
Special national conditions

Special national condition: National characteristic or practice that cannot be changed even over a long period, e.g. climatic conditions, electrical earthing conditions. If it affects harmonization, it forms part of the European Standard or Harmonization Document.
For the countries in which the relevant special national condition apply these provisions are normative, for other countries they are informative**.**

2.6.1	**Denmark** The following is added: Certain types of CLASS I apparatus, see 15.1.1, may be provided with a plug not establishing earthing continuity when inserted in Danish socketoutlets *Justification:* Heavy Current Regulations, Section 107		N
13.3.1	**Norway** To the second paragraph the following is added: In Norway, due to the IT power distribution system used, the a.c. MAINS supply voltage is considered to be equal to the line-to-line voltage, and will remain 230 V in case of a single earth fault. *Justification:* Based on a use in Norway of an IT power distribution system where the neutral is not provided		N

EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict
15.1.1	**Denmark** To the first paragraph the following is added: In Denmark, supply cords of single phase appliances having a rated current not exceeding 13 A shall be provided with a plug according to the Heavy Current Regulations Section 107-2-D1. Appliances of CLASS I provided with socket-outlets with earth contact or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with the Heavy Current Regulations, Section 107-2-D1 standard sheet DK 2-1a. To the second paragraph the following is added: Socket outlets intended for providing power to CLASS II apparatus with a rated current of 2,5 A shall have the following dimensions: See EN 60065:2002 Other dimensions shall be in compliance with the Heavy Current Regulations, Section 107-2-D1, Standard Sheet DKA 1-3 for portable socket outlets. Shutters are not required To the third paragraph the following is added: Mains socket-outlets with earthing contact shall be in compliance with HeavyCurrent Regulations Section 107-2-D1, Standard sheet DK 1-3a, DK 1-5a or DK 1-7a *Justification*: Heavy Current Regulations, Section 107		P
15.1.1	**Ireland** Apparatus which is fitted with a flexible cable or cord shall be provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion Adapters for Domestic Use Regulations: 1997. *Justification*: SI 525: 1997		N

EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict
15.1.1	**Norway** Mains socket-outlets mounted on CLASS II apparatus shall comply with the specifications given in CEE Publ. 7 as far as applicable, with the following amendments: § 8 Dimensions a 2,5 A 250 V two-pole socket-outlets for electronic apparatus shall comply with the enclosed Standard Sheet I. See EN 60065:2002 Other dimensions according to CEE Publication 7 Standard Sheet I "Portable Single-Way Socket-Outlets". § 24 Mechanical strength a 2,5 A, 250 V socket-outlets for CLASS II electronic apparatus are tested as specified in 12.1.3 of EN 60065. Also the protecting rim shall be tested *Justification*: Act of 24 May 1929 relating to supervision of electrical installation (TEA 1929/FEL 1998).	No mains socket-outlet.	N
15.1.1	**United Kingdom** Apparatus which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord and plug shall be fitted with a "standard plug" in accordance with Statutory Instrument 1768: 1994: The Plugs and Sockets etc. (Safety) Regulations 1994, unless exempted by those Regulations. NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug. *Justification*: SI 1768: 1994		N
J.2	**Norway** After Table J.1 the following is added: In Norway, due to the IT power distribution system used, the a.c. MAINS supply voltage is considered to be equal to the line-to-line voltage, and will remain 230 V in case of a single earth fault. *Justification:* Based on a use in Norway of an IT power distribution system where the neutral is not provided		N

EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict

Annex ZC (informative)	**A-deviations** **A-deviation:** A national deviation due to regulations, the alteration of which - at least for the time being - outside the competence of the CEN/CENELEC member.		
5	**Germany** The following markings are required: a) In case of intrinsically ionizing radiation safe cathode-ray tubes with accelerating voltages between 20 kV and 30 kV: - On the cathode-ray tube itself the wording: Eigensichere Kathodenstrahlröhre nach Anlage III Röntgen-verordnung - Inside the apparatus: the maximum allowed accelerating voltage in kV, and the maximum allowed beam current in mA. - On the outer of the apparatus: a notice in German language that produced X-rays are sufficiently shielded by the intrinsically safe cathode-ray tube. b) In case of approval of the whole TV receiver with an accelerating voltage exceeding 20 kV: - On the outer of the apparatus: the licence number .../.../.../Rö, and the following text: Die in diesem Gerät entstehende Röntgenstrahlung ist ausreichend abgeschirmt. Beschleunigungsspannung: max: ... kV. - Supplied with the apparatus: a copy of the "Zulassungsschein", together with the notices required there. c) In case of TV receivers with accelerating voltages not exceeding 20 kV: Die in diesem Gerät entstehende Röntgenstrahlung ist ausreichend abgeschirmt. Beschleunigungsspannung: max: ... kV. *Justification*: German ministerial decree against ionizing radiation (Röntgenverordnung), dated 1987-01-08. NOTE The German ministerial decree (Röntgenverordnung) is under revision.	No CRT or TV receivers.	N

EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict
5.1	**Italy** The following requirements shall be fulfilled: - The power consumption in Watts (W) shall be indicated on TV receivers and in their instruction for use (Measurement according to EN 60555-2) NOTE EN 60555-2 has since been replaced by IEC 60107-1:1997. - TV receivers shall be provided with an instruction for use, schematic diagrams and adjustments procedure in Italian language. - Marking for controls and terminals shall be in Italian language. Abbreviation and international symbols are allowed provided that they are explained in the instruction for use. - The ECC manufacturers are bound to issue a conformity declaration according to the above requirements in the instruction manual. The correct statement for conformity to be written in the instruction manual, shall be: Questo apparecchio è fabbricato nella CEE nel rispetto delle disposizioni del D.M. marzo 1992 ed è in particolare conforme alle prescrizioni dell'art. 1 dello stesso D.M. - The first importers of TV receivers manufactured outside EEC are bound to submit the TV receivers for previous conformity certification to the Italian Post Ministry (PP.TT). The TV receivers shall have on the backcover the certification number in the following form: D.M. 26/03/1992 xxxxx/xxxxx/S or T or pT S for stereo T for teletext pT for retrofitable teletext *Justification:* Ministerial Decree of 26 March 1992: National rules for television receivers trade. NOTE The ministerial decree above contains additional, but not safety relevant requirements.		N
14	**Sweden** The following is added: Switches containing mercury such as thermostats, relays and level controllers are not allowed. *Justification:* Ordinance (1990:944) on Prohibition in connection with Handling, Importation and Exportation of Chemical Products (Certain Cases)		N

EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict
5.1	Input Test		P
Operating condition: Maximum normal load			
Un (V)	In (mA)	Pn (W)	
Input: 110-240V~, 50/60Hz,max.5W			
RYK42x			
99V/50Hz	49.6	2.3	
110/50Hz	46.2	2.34	
240/50Hz	29.3	2.48	
264/50Hz	28.4	2.55	

EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict

7.1	TABLE: temperature rise measurements			P
	Loudspeaker impedance (W) ……			—
	Several loudspeaker systems			—
	Marking of loudspeaker terminals			—
Input voltage		99Vac	264Vac	
Monitored point:		dT (K)		Limit dT (K)
Model RYK42x				
1.T1 coil		15.4	15.4	85
2. T1 bobbin		19.2	24.7	85
3. T2 coil		16.4	19.4	85
4. T2 bobbin		16.2	19.7	85
5. C4		15.6	20.8	70
6.PCB near IC (sony)		24.9	26.1	70
7. PCB near Line		9.8	11.2	70
8. Line(wire)		9.8	11.4	60
9.enclosure near T1 (inside)		8.3	9.7	40
10. External Enclosure		7.4	8.4	40
11. Enclosure near switch (DC DRIVE)		3.1	2.9	40
12. Ambient		(28.3℃)	(28.8℃)	-

Comments:

1. The temperatures were measured under worst case normal mode defined in 4.2.1.
2. The max. temperature rise is calculated as follows which based upon maximum working ambient of 35℃:

   Winding components: T1 ,T2 coil → △Tmax=85K.

   Electrolyte capacitor or components with:

   - max. absolute temp. of 85℃ → △Tmax=(85-35)K=50K
   - max. absolute temp. of 105℃ → △Tmax=(105-35)K=70K

	Winding temperature rise measurements			--
	Ambient temperature t1 (^{o}C) ……:			—
	Ambient temperature t2 (^{o}C) ……:			—

Temperature rise dT of winding:	R_1 (O)	R_2 (O)	dT (K)	Limit dT (K)	Insulation class
--	--	--	--	--	--

EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict

7.2	TABLE: softening temperature of thermoplastics			N
Temperature T of part		T - normal conditions (^{0}C)	T - fault conditions (^{0}C)	T softening (^{0}C)
Investigated during the separated certificated of power supply board.				

9.1.1	Table :Electric shock hazard under normal condition			
Measured between:	U1(V)	Required U1(Vpk)	U2(V)	Required U2(Vpk)
L→terminal	0.4	35	0.3	0.35
L→metal screw	0.4	35	0.3	0.35
N→terminal	0.4	35	0.3	0.35
N→metal screw	0.4	35	0.3	0.35
Input voltage: 264V/50Hz				

9.1.6	TABLE: Withdrawal of mains plug (discharge)	P
Condition	Max. Mains voltage	Voltage after withdrawal of mains plug at 2s
Line – Neutral	368 Vac	0 V
Input voltage: 264V/50Hz		

9.1.7	TABLE: Enclosure resistance to external forces test			P
Test part	Pull force	Duration	Result	
Top Enclosure	100N	5s	No damage.	
Right Enclosure	100N	5s	No damage.	
Left Enclosure	100N	5s	No damage.	
Notes:				

10.1	TABLE: Voltage surge		P
Test voltage applied between		Test voltage	breakdown
Primary and SELV		10kV	No
Notes:			

10.1	TABLE: Electric strength after voltage surge		P
Test voltage applied between:		Test voltage (V)	Breakdown
Primary & SELV		DC 4240V	No

EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict

10.1	TABLE: Insulation resistance after voltage surge	P

Test voltage applied between:	Resistance (MΩ)
Primary & SELV	＞4

10.2	TABLE: Humidity treatment			P
Test condition	Temperature	Relative Humidity	Duration	
	30℃	93%	48 hours	

10.3	TABLE: Insulation resistance measurements		P
Insulation resistance R between:		R (MO)	Required R (MO)
RI: Between Pri. & Sec.		＞4	4

10.3	TABLE: Electric strength measurements		P
Test voltage applied between:		Test voltage (V)	Breakdown
For Unit			
Pri. ? SELV		4240 Vdc	No
Transformer is Investigated during the separated certificated of power supply board.			

EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict

11.2	TABLE: summary of fault condition tests		P
	Voltage (V) 0,9 or 1,1 times rated voltage .....:		—
	Ambient temperature (^{o}C) .....:	25	—

No.	Component No.	Fault	Input (V)	Test time	Fuse No.	Fuse current/ measured(A), Input power (W)	Result
1	Q1 Pin3-pin4	S-C	240	10 min.	F1	0	Unit shut down, no damaged, no hazards.
2.	C4	S-C	240	<1s	F1	0	Fuse F1 opened, no damaged, no hazards,

EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict

12.1.3	TABLE: Impact test		P
Location		Force (J)	Obtained
Top		0.5	No damage.
Side		0.5	No damage.
Rear		0.5	No damage.

12.1.3	TABLE: Electric strength after impact		P
Test voltage applied between:		Test voltage (V)	Breakdown
RI: Between Pri. & Sec.		DC 4240	No

13.2	TABLE：determination of operating voltage			P
Location		Peak voltage(V)	RMS voltage (V)	Comments
Investigated during the separated certificated of power supply board.				

13.3/13.4	TABLE: clearance and creepage distance measurements					
clearance cl and creepage distance dcr at/of:	Up (V)	U r.m.s. (V)	required cl (mm)	cl (mm)	required dcr (mm)	dcr (mm)
Model: RYK42×						
Between F1(B)	＜420	＜250	2.0	2.51	2.5	2.51
Line→Neutral(B)	＜420	＜250	2.0	3.0	2.5	3.0
Pri.→sec. traces Under Q1(R)	＜420	＜250	4.0	6.3	5.0	＞6.3
Pri. circuit – Enclosure (R)	＜420	＜250	4.0	＞5.0	5.0	＞5.0

EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict

14	TABLE: list of critical components and materials				P
Component	Manufacturer/ trademark	Type/model	Value / rating	Standard	Approval/ Reference
Power plug	Lian Dung	LT-207	2.5A, 250V~	EN 50075:1990	VDE
Power supply cord	Rhythm Wire Industrial Co., Ltd., /RHYTHM	H03VVH2-F	300V 0.75mm/2C BLK 5FT	-	VDE
	STANDARD ELECTRIC WIRE & CABLE CO., LTD.	H03VVH2-F	300V 0.75mm/2C BLK 5FT	-	VDE
Power board	YOKO TECHNOLOGY CORP.	R219500/2LL ;R219500/2	Input: 110-240V~, 50/60 Hz, max 5W Output: 12V	EN 60065	CE
Enclosure	Various	Various	Metal	-	-
PCB	Various	Various	V-1 min., 105°C min.	UL94	UL

Remarks

EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict

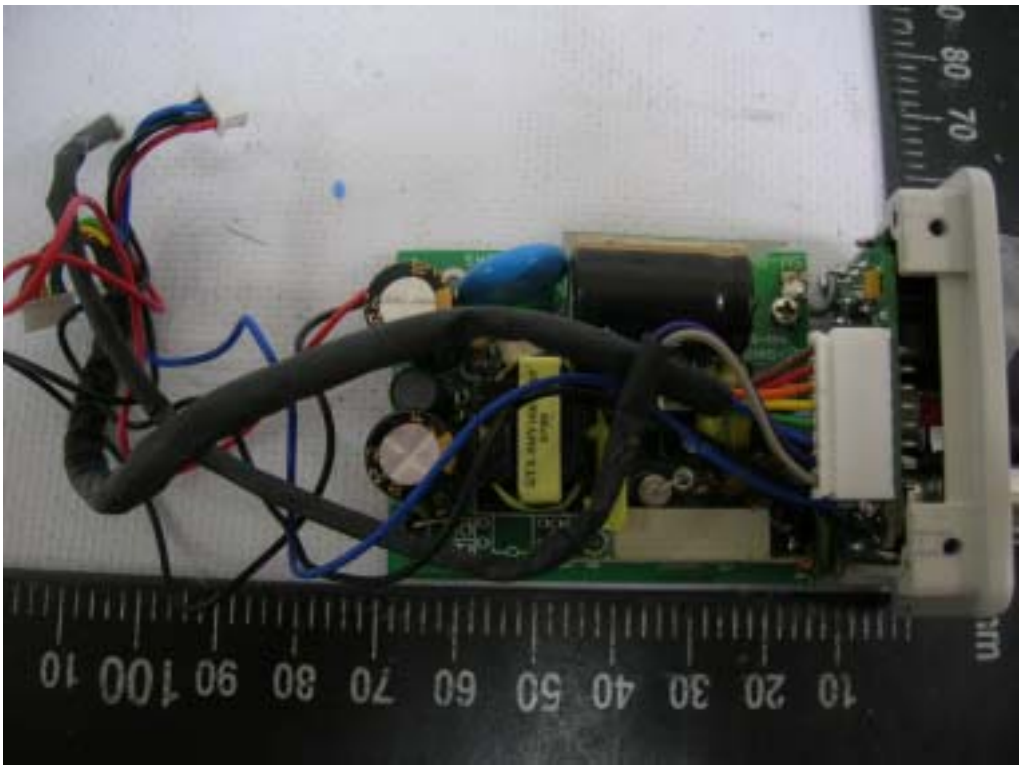
1. This report is submitted for the exclusive use of the client to whom it is addressed. Its significance is subject to the adequacy and representative character of the sample(s) and to the comprehensiveness of the tests, examinations or surveys made.
2. The CE marking may only be used if all relevant and effective EC directives are complied with.
3. The instruction specified by the standard has to be in official language of each country, however, only English is checked for this report. It is the applicant's responsibility to provide instruction in each official language of the EU.

Annex A: Photos

Annex A :Photos

Model : RYK42X

Annex A :Photos



Model : RYK46X

Annex A :Photos

Annex A :Photos

Model : RYK47X

Annex B: Critical components and materials

VDE tested Product

Back to the Searchresult

Approval No.:	40007469
Product:	Plug non-rewirable
Productgroup:	Plugs with cord, Household
Company:	Lian Dung Electric Wire Material Co., Ltd.
Address:	No. 957-16 San Feng Road Feng Yuan City 420 TAICHUNG HSIEN Taiwan
Mark:	VDE Mark
Typ:	LT-207
technical Data:	Rated voltage AC 250 V Rated current 2,5 A Degree of protection ordinary Kind of construction Standard sheet 1 (EN 50075) Cord(s) H03VVH2-F 2x 0,75 mm² (a;b) H05VVH2-F 2x 0,75 mm² (a;b)

VDE tested Product

Back to the Searchresult

Approval No.:	094010
Product:	Flexible cable (cord)
Productgroup:	PVC insulated cables of rated voltages up to and including 450/750 V
Company:	Rhythm Wire Industrial Co., Ltd.
Address:	Yih-Lin Rd., Jen Te Hsiang TAINAN COUNTY Taiwan
Mark:	VDE Cable Mark or Identification Thread
Typ:	H03VV-F
technical Data:	
Typ:	H03VVH2-F
technical Data:	
Typ:	H05VV-F 2...5 x 0,75...1,5 mm²
technical Data:	
Typ:	H05VVH2-F 2x0,75 mm²
technical Data:	

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VDE tested Product

Back to the Searchresult

Approval No.:	100610
Product:	Flexible cable (cord)
Productgroup:	PVC insulated cables of rated voltages up to and including 450/750 V
Company:	Standard Electric Wire & Cable Co., Ltd.
Address:	Kuo-Chi Road Hsin-Shih Hsiang TAINAN COUNTY Taiwan
Mark:	VDE Cable Mark or Identification Thread

Typ:	H03VV-F
technical Data:	
Typ:	H03VVH2-F 2x0,75 mm²
technical Data:	
Typ:	H05VV-F 2...3 x 0,75...1,5 mm²
technical Data:	
Typ:	H05VVH2-F 2x0,75 mm²
technical Data:	

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VERIFICATION

of conformity with
European Low Voltage Directive

No. **S960002-1**

***Document holder*:**	**YOKO TECHNOLOGY CORP.**
Type of equipment:	**POWER BOARD**
***Type designation*:**	**R219500/2LL, R219500/2**

A sample of the equipment has been tested for CE-marking according to the Low Voltage Directive, (2006/95/EC).

Standard(s) used for showing compliance with the essential requirements of the directive:

EN 60065: 2002

The referred test report(s) show that the product fulfills the requirements in the LVD Directive for CE marking. On this basis, together with the manufacturer's own documented production control, the manufacturer (or his European authorized representative) can in his EC Declaration of Conformity verify compliance with the LVD Directive.

Signed for and on behalf of
PEP Testing Laboratory

PEP Testing Laboratory PEP Testing Laboratory

Peter Kao

Date: August 21, 2007

Peter Kao/ President