#### LVD TEST REPORT

#### IEC60065: 2014

&EN 60065: 2014/A11:2017

Audio, video and similar electronic apparatus- Safety requirements

#### Guangzhou Baolun Electronic Co., Ltd.

No.1, Building B Block, Zhongcun Street, Panyu District, Guangzhou, China

#### Model:

VA-6000MA, VA-6000FM, VA-6000RM, VA-6000EM, VA-6000T, VA-6010MC, VA-6010MC, VA-6010RC, VA-6011CP, VA-6011DP, VA-6011FM, VA-6011RM, VA-6011RW, VA-6100MA, VA-6100MS, VA-6100RM, VA-6100FM, VA-6145, VA-6200MA, VA-6200MS, VA-6200RM, VA-6000RS, VA-6000RT, VA-6000DE, VA-6000G

January 25, 2019

This Report Concerns:	Equipment Type:
○ Original Report	Voice Alarm Controller
Test Engineer:	Eric/ Tric
Report Number:	TH19AR-134S
Test Date:	January 18~25, 2019 % 世 //
5	Prince /
Reviewed By:	检测报告专用章。
Approved By:	Prince / Prince /
Prepared By:	Shenzhen Tian Hai Test Technology Co., Ltd.
À	4F, A3 BLDG, The Silicon Valley Power intelligent terminal
A LE	industrial park, Guanlan street, Longhua district, Shenzhen Tel: 86-755-86615100
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Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior written consent of Shenzhen Tian Hai Test Technology Co,.Ltd.

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### TEST REPORT IEC60065: 2014

&EN 60065: 2014/A11:2017

Audio, video and similar electronic apparatus- Safety requirements

Report Reference No	TH19AR-134S
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Tested by (signature)..... Eric /

Reviewed by (signature)...... Prince /

Approved by (signature)...... Prince /

Testing Laboratory Name...... Shenzhen Tian Hai Test Technology Co., Ltd.

Testing location...... Same as above

Applicant's Name...... Guangzhou Baolun Electronic Co., Ltd.

Manufacturer's Name...... Guangzhou Baolun Electronic Co., Ltd.

Factory's Name...... Guangzhou Baolun Electronic Co., Ltd.

Test specification

Standard..... EN 60065: 2014/A11:2017/ IEC 60065: 2014

Test procedure ...... CE-LVD

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

Test item description.....: Voice Alarm Controller

Trade mark...... ITC

VA-6000MA, VA-6000FM, VA-6000RM, VA-6000EM,

VA-6000T, VA-6010MC, VA-6010MC, VA-6010RC, VA-6011CP, VA-6011DP,

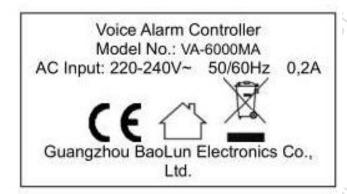
VA-6100RM, VA-6100FM, VA-6145, VA-6200MA, VA-6200MS, VA-6200RM,

VA-6000RS, VA-6000RT, VA-6000DE, VA-6000G

Rating(s)...... 220-240V 50-60Hz 0.2A Class I

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#### Copy of marking plate



#### Notes:

- The above markings are the minimum requirements required by safety standard. For the final production, the additional markings which do not give rise to misunderstanding may be added.
- The marking label was silk-screened or labeled on rear enclosure.
- The CE marking and WEEE symbol should be at least 5.0 mm and 7.0 mm respectively in height.
- The model no. can be replaced by others listed in this report.

#### Summary of testing:

- 1) The sample tested complies with the requirements of the test specification.
- 2) Following symbols and abbreviations maybe used in this test report

B= Basic Insulation

S= Supplementary Insulation

D/R= Double or Reinforced Insulation

S/C= Short-Circuit.....

O/C= Open-Circuit

O/L= Over-Load

B/L=Block

CT= Constant temperatures were obtained

CD= Components damaged (list damaged components)

NCD= No components damaged (list damaged components)

NB= No indication of dielectric breakdown

NH= No Hazard Occurred

.....

Pri.= Primary

Sec.= Secondary

PCB= Printed Circuit Board

PSU= Power Supply Unit

**EUT=** Equipment Under Test

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Test item particulars:

Classification of installation..... Portable apparatus

Supply connection ...... Mains

Possible test case verdicts:

- Test case does not apply to the test object.... N/A (Not Applicable)

- Test object does meet the requirement.....: P (Pass)

- Test object does not meet the requireme...: F (Fail)

Testing:

Date(s) of performance of tests...... January 18-25, 2019

#### General remarks:

The test results presented in this report relate only to the object tested.

This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

"(See Attachment #)" refers to additional information appended to the report.

"(See appended table)" refers to a table appended to the report.

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

List of test equipment must be kept on file and available for review.

#### General production information:

- The equipment is designated as a professional apparatus by manufacturer, and intended for indoor use.
- The equipment can be supplied by AC mains only via detachable supply cord with the mains plug evaluated within the national approval.

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	IEC/EN 60065	T. E.	
Clause	Requirement – Test	Result – Remark	Verdict
3	GENERAL REQUIREMENTS	4 6	Р
3	Safety class of the apparatus	Class I apparatus.	P
4 118	GENERAL CONDITIONS OF TESTS	E Zi, I,	P
4.1.4	Ventilation instructions require the use of the test box	No test box used The appliance is positioned in accordance with the instructions for use provided by the manufacturer.	P
5	MARKING	R. E.	P
	Comprehensible and easily discernible	Yes	P
q	Permanent durability against water and petroleum spirit	Tested 15s, no rubbed out of marking	P
5.1	Identification and supply ratings	A 14	P
	The apparatus shall be marked with the following:	Le Fr	
THE	a) Identification, maker :	Guangzhou Baolun Electronic Co., Ltd.	P
1/2	b) Model number or type reference :	VA-6000MA	P A
12	c) Class II symbol if applicable :	Class I	N/A
19	d) Nature of supply:	~ 2	A.A.
	e) Rated supply voltage :	220-240V	P
/	f) Mains frequency if safety dependant :	50-60Hz	P
	g) Rated current or power consumption for apparatus supplied by supply apparatus for general use:	AC mains directly supplied apparatus.	P P
Ŕ	Measured current or power consumption :	THE THE	N/A
F	Deviation % (max 10%) :	HT IT	N/A
~	h) Rated current or power consumption for apparat-us intended for connection to an a.c. mains supply	See rating label	P
	Measured current or power consumption :	(see appended table 7.1)	P
	Measured current or power consumption for Television set :	Not Television set	N/A
	Deviation % (max 10%) :	(see appended table 7.1)	P
5.2	Terminal	, E	P
TA	a) Earth terminal	marked near earth terminal	P

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	IEC/EN 60065	T. R.	
Clause	Requirement – Test	Result – Remark	Verdict
	b) Hazardous live terminals	4 5	P
3	c) Markings on supply output terminals	No supply output	N/A
5.3	Caution marking	E THE THE	P
,	a) Use of triangle with exclamation mark	Marked in circuit diagram and mentioned in user	P
(2)	b) marking on loudspeaker grille, IEC 60417-5036	9 4 4	N/A
5.4	Instructions for use	Marking and instruction for use provided in English.  Version of other languages will be provided when it is submitted for national approval.	P
5.4.1	a) Mains powered equipment not exposed to dripping or splashing. Warning concerning objects filled with liquid, etc.	Indoor use and mentioned in instruction manual.	P
KINHWA!	b) Hazardous live terminals, instructions for wiring	This Information with regard to the safety is given in an instruction for installation or use.	PA
	c) Instructions for replacing lithium battery	No battery used	N/A
,5	d) Class I earth connection warning	See user manual.	J.P.P
	e) Instructions for multimedia system connection	F JA ;	N/A
7	f) Special stability warning for attachment of the apparatus to the floor/wall	THE STATE OF THE S	N/A
	g) Warning: battery exposure to heat	5	/ N/A
	h) Warning: protective film on CRT face	5 5	N/A
5.4.2	a-b) Disconnect device: plug/coupler or all-pole mains switch location, accessibility and markings	An appliance coupler and plug provided and remain readily operable.	P
Th	c) Instructions for permanently connected equipment	Not permanently connected equipment	N/A
	Marking, signal lamps or similar for completely disconnection from the mains	.5	N/A
5	HAZARDOUS RADIATION	5	N/A
5.1	Ionizing radiation <36 pA/kg (0,5 mR/h)	No ionizing radiation inside the equipment	N/A
P. C.	Ionizing radiation under fault condition	The state of the s	N/A
5.2	Laser radiation, emission limits to IEC 60825-1:200	No laser radiation inside the	N/A

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	IEC/EN 60065	774	
Clause	Requirement – Test	Result – Remark	Verdict
	£	2 5	, and the second
3	Emission limits under fault conditions:	A E Z	N/A
TR	HEATING UNDER NORMAL OPERATING CONDITI	ONS	P
'.1	Temperature rises not exceeding specified values; fuse links and other protective devices defeated	See appended table	P
.1.1.5	Temperature rise of accessible parts	See appended table	P
.1.2	Temperature rise of parts providing electrical insulation	See appended table	P
.1.3	Temperature rise of parts acting as a support or as a mechanical barrier	No such parts	N/A
.1.4	Temperature rise of windings	See appended table	P
.1.5	Parts not subject to a limit under 7.1.1 to 7.1.4	See appended table	Р
.2	Softening temperature of insulating material supporting parts conductively connected to the mains carrying a current >0,2A at least 150 °C	No such parts	N/A
N. N	CONSTRUCTIONAL REQUIREMENTS WITH RECAGAINST ELECTRIC SHOCK	GARD TO THE PROTECTION	P
.1	Conductive parts covered by lacquer, paper, untreated textile oxide films and beads etc. considered to be bare	No shock hazard.	Po
.26	No shock hazard when changing voltage setting device, fuse-links or handling drawers etc.	Tools are required.	PAR
.3	Insulation of hazardous live parts not provided by hygroscopic material	No hygroscopic materials used as the insulation.	Р
.4	No risk of electric shock following the removal of a cover which can be removed by hand	Tools are required.	N/A
.5	Class I equipment	4 4	P
R	Basic insulation between hazardous live parts and earthed accessible parts	Considered and complied with	Р
5	Resistors bridging basic insulation complying with 14.1 a)	No such parts	N/A
T		No such parts	N/A
T	Capacitors bridging basic insulation complying with 14.2.1 a)		
T		Protective earthing terminal fixed reliably	P
.6	Protective earthing terminal  Class II equipment and Class II constructions within	Protective earthing terminal fixed reliably  Class II constructions within class I equipment	P P
.6	14.2.1 a)  Protective earthing terminal	fixed reliably  Class II constructions within	5

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	IEC/EN 60065	N. A.	
Clause	Requirement – Test	Result – Remark	Verdict
	complying with 14.1 a) or 14.3		4
,	Basic insulation bridged by components complying with 14.3.4.3.	No such components	N/A
IN	Basic and supplementary insulation each being bridged by a capacitor complying with 14.2.1a)	No such components.	N/A
	Reinforced or double insulation being bridged with 2 capacitors in series complying with 14.2.1 a)	No such components.	N/A
12	Reinforced or double insulation being bridged with a single capacitor complying with 14.2.1 b)	No such components.	N/A
3.7	This clause is Void		N/A
3.8	Basic or supplementary insulation >0,4mm (mm):	The Vit	N/A
	Reinforced insulation >0,4mm (mm):	72 7	P
	Thin sheet insulation (excluding non-separable thin sheet insulation. See 8.22)		Р
4	Basic or supplementary insulation, at least two layers, each meeting 10.3		N/A
H	Basic or supplementary insulation, three layers any two of which meet 10.3	The First	N/A
R	Reinforced insulation, two layers each of which meet 10.3	7,7	N/A
FEST	Reinforced insulation, three layers any two which meet 10.3	At least three layers insulation tape between primary and secondary winding of transformers used as reinforced insulation. Each two layers can withstand dielectric strength test specified in 10.3 (test voltage; 4240Vpeak).	N/A
3.9	Adequate insulation between internal hazardous live conductors and accessible parts		Р
HAY	Adequate insulation between internal hazardous live parts and conductors connected to accessible parts	M. M	P
3.10	Double insulation between conductors connected to the mains and accessible parts.	Class I apparatus	N/A
	Double insulation between internal hazardous live parts and conductors connected to accessible parts.	~	N/A
3.11	Detaching of wires	4	P
	No undue reduction of creepages or clearance distances if wires become detached	Conductors with mechanical securing and quick connection. Primary and secondary lead wires separated by cable ties.	S P
		wires separated by early ties.	A. N
J.Y.	Vibration test carried out :	A. A.	N/A

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7	IEC/EN 60065	A F	
Clause	Requirement – Test	Result – Remark	Verdict
8.14	Adequate fastening of covers (pull test 50N for 10s)	No access to hazardous live parts.	N/A
8.15	No risk of damage to the insulation of internal wiring due to hot parts or sharp edges	Internal lead wire cannot touch hot parts or sharp edges.	P
8.16	Only special supply equipment can be used	Not such type of equipment	N/A
8.17	Insulated winding wire without additional interleaved insulation	No such winding.	N/A
8.18	Endurance test as required by 8.17	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
8.19	Disconnection from the mains	See below.	P
8.19.1	Disconnect device	Appliance coupler (or inlet) used.	P
,	All-pole switch or circuit breaker with >3mm contact separation	No such device used as disconnect device.	N/A
8.19.2	Mains switch ON indication	6	P
8.20	Switch not fitted in the mains cord	Fitted in front enclosure.	P
8.21	Bridging components comply with clause 14	No such parts.	N/A
8.22	Non-separable thin sheet material	No such material.	N/A
9	ELECTRIC SHOCK HAZARD UNDER NORMAL OP	ERATING CONDITIONS	P
9.16	Testing on the outside	The state of the s	J.PP
9.1.1	For voltages >1000 V ac or >1500 V dc complies with clause 13.3.1 for basic insulation	No such high voltage	N/A
9.1.1.1	a) Open circuit voltages	All audio output terminals less than 120V for professional equipment.	P
I KANAN TANAN TANA	b) Touch current measured from terminal devices using the network in annex D :	- Between L/N and metallic enclosure with the protective U1: max.26,1 Vpeak U2: max.1,9 Vpeak (limited: Touch current to earth≤ 3,5mA rms.)	P
A HAR	E LIMINE	Formula:measured (1,9Vpeak/500)/1,414= 2,68 mA rms. <3,5mA - Between L/N and accessible secondary terminals: U1: max. 1,00Vpeak U2: max. 0,21Vpeak	185 Y

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	IEC/EN 60065		
Clause	Requirement – Test	Result – Remark	Verdict
	c) Discharge not exceeding 45µC	Less than 45 μC.	P
3	d) Energy of discharge not exceeding 350mJ	The Property of the Party of th	N/A
.1.1.2	Test with test finger and test probe	No access to hazardous live parts	P
.1.2	No hazardous live shafts of knobs, handles or levers	No access to hazardous live parts	P
.1.3	Ventilation holes and other holes tested by means of 4mm x 100mm test pin	No access to hazardous live parts	P
.1.4	Terminal devices tested with 1mm x 20mm test pin (10N); test probe D of IEC 61032	No access to hazardous live parts	ZH P
	Terminal devices tested with 1mm x 100mm straight wire (1N); test probe D of IEC 61032	No access to hazardous live parts	Р
.1.5	Pre- set controls tested with 2.5mm x 100mm test pin (10N); test probe C of IEC 61032	No such parts.	N/A
.1.6	No shock hazard due to stored charge on withdrawal of the mains plug; voltage (V) after 2 s	No shock hazard	P
The	If C is not greater than 0,1 μF no test needed		P
.1.7	Resistance to external forces		P
	a) Test probe 11 of IEC 61032 for 10 s (50 N)	No hazard	P
5	b) Test hook of fig. 4 for 10 s (20 N)	No hazard	P
W.	c) 30 mm diameter test tool for 5 s (100 or 250 N):	100N 5s	P
.2	No hazard after removing a cover by hand	No such parts.	N/A
0	INSULATION REQUIREMENTS		A P
0.1	Insulation resistance (M $\Omega$ ) at least 2 M $\Omega$ min. after surge test for basic and 4 M $\Omega$ min. for reinforced insulation	Measured greater than 4 $M\Omega$ after surge test, between other terminals and mains supply	Р
0.2	Humidity treatment 48 h or 120 h :	48 h, 93%RH, 26℃	P
0.3	Insulation resistance and dielectric strength between mains teminals	See appended table	P
	Insulation Resistance and dielectric strength across BASIC or SUPPLEMENTARY insulation (Class 1)	See appended table	P
	Insulation resistance and dielectric strength across REINFORCED insulation (Class II)	See appended table	S P
	7 4		
1 8	FAULT CONDITIONS	ry Tip, Thy	P

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	IEC/EN 60065	A)	
Clause	Requirement – Test	Result – Remark	Verdic
1.2	Heating under fault condition	No fire hazard, no excessive temperature.	Р
7	No hazard from softening solder	No solder of soften.	P
7,	Flames extinguish within 10 seconds	No flames occurred	P
4	Soldered terminations not used as protective mechanism	5	P
1.2.1	Measurement of temperature rises	See appended table	P
1.2.2	Temperature rise of accessible parts	See appended table	P
1.2.3	Temperature rise of parts, other than windings and printed boards, providing electrical insulation	N. C.	P
1.2.4	Temperature rise of parts acting as a support or mechanical barrier	No such parts.	N/A
1.2.5	Temperature rise of windings	See appended table	P
1.2.6	Temperature rise of printed boards shall not exceed the limits of table 3 by max. 100 K for max. 5 min	PCB temperature rise did not exceed the limits of table 3.	N/A
N. A.	Printed circuit boards (PCB) classified as V-0 according to 60695-11-10 or Clause G.1 may exceed the limit in table 3 in case a) and b):	T.B.	N/A
25	a) Temperature rise of printed circuit boards exceeding the limits of table 3 by not more than 100 K for an area not greater than 2 cm <sup>2</sup>		N/A
447	b) Temperature rise of printed circuit boards exceeding the limits of table 3 up to 300 K for an area not greater than 2 cm <sup>2</sup> for a maximum of 5 min	THE THE T	N/A
	Meets all the special conditions if conductors on printed circuit boards are interrupted	4	N/A
	Class I protective earthing maintained	Class I equipment	P
1.2.7	Temperature rise of parts not subject to the limits of 11.2.1 to 11.2.6 shall not exceed the limits in table 3, item e), "Fault conditions".	See appended table	P
2	MECHANICAL STRENGTH	N. S.	P
2.1.1	Bump test where mass >7 kg		Р
2.1.2	Vibration test	No damage after the test.	P
2.1.3	Impact hammer test	No damage after the test.	ް P
3	Steel ball test	No damage after the test.	P
2.1.4	Drop test for portable apparatus where mass < 7 kg	8.2kg.	N/A
2.1.5	Thermoplastic enclosures strain relief test	Metallic enclosure used	N/A

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	IEC/EN 60065	T. IE	8
Clause	Requirement – Test	Result – Remark	Verdic
2.2	Fixing of knobs, push buttons, keys and levers	No damage	P
2.3	Remote controls with hazardous live parts	No such part	P
2.4	Drawers (pull test 50 N, 10 s)	No such parts	P
2.5	Antenna coaxial sockets providing isolation	77	P
2.6	Telescoping or rod antennas construction	No such parts	N/A
2.6.1	Telescoping or rod antennas securement	No such parts	N/A
3	CLEARANCE AND CREEPAGE DISTANCES	The The Table	P
3.1	Clearances in accordance with 13.3	See appended table	P
	Creepage distances in accordance with 13.4	See appended table	P
3.2	Determination of operating voltage		P
3.3	Clearances		Р
3.3.1	General	IL THE	P
3.3.2	Circuits conductively connected to the mains comply with table 8 and, where applicable, table 9	See appended table	P
3.3.3	Circuits not conductively connected to the mains comply with table 10	2	N/A
3.3.4	Measurement of transient voltages	F 44	N/A
3.4	Creepage distances	See appended table	P
1	Creepage distances greater than table 11 minima	N. S.	P
3.5	Printed boards	No such PCB.	N/A
3.5.1	Clearances and creepage distances between conductors on printed circuit boards, one of which may be conductively connected to the mains, as in fig. 10		N/A
3.5.2	Type B coated printed circuit boards complying with IEC 60664-3 (basic insulation only)	HE LEE	N/A
3.6	Conductive parts along uncemented joints clearances and creepage distances comply with 13.3 and 13.4	No such parts provided	N/A
	Conductive parts along reliably cemented joints comply with 8.8	Not such a construction	N/A
	Temperature cycle test and dielectric strength test	5 8	N/A
3	500V test for transformers, magnetic coupler and similar devices, if insulation is relied upon for safety	The state of the s	N/A
3.7	Enclosed, enveloped or hermetically sealed parts: not conductively connected to the mains: clearances and creepage distances as in table 12	THE STATE OF THE S	N/A

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5	IEC/EN 60065	C. A.	0
Clause	Requirement – Test	Result – Remark	Verdict
13.8	Parts filled with insulating compound, meeting the requirements of 8.8		N/A
14	COMPONENTS	ETT HE LE	P
14.1	Resistors	Not such resistors used	N/A
4	a) Resistors between hazardous live parts and accessible metal parts	4 5	N/A
1	b) Resistors, other than between hazardous live parts and accessible parts		N/A
Ž,	Resistors separately approved:	A A	N/A
14.2	Capacitors and RC units	Approved Switching Power Supply used	N/A
	Capacitors separately approved	4	N/A
14.2.1	Y capacitors tested to IEC 60384-14:2005:	La F	N/A
14.2.2	X capacitors tested to IEC 60384-14:2005:	No such parts	N/A
14.2.3	Capacitors operating at mains frequency but not connected to the mains: tests for X2	THE STATE OF THE S	N/A
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/A
AITES,	Capacitors with volume exceeding 1750 mm³, mounted closer to a potential ignition source than table 5 permits: compliance with IEC 60384-1, 4.38 category B or better	THE THE STATE OF T	N/A
A	Shielded by a barrier acc. to 20.1.4/ table 21 or metal:	T.A.	N/A
14.3	Inductors and windings	Approved Switching Power Supply used	S P
N. N.	Comply with IEC 61558-1, IEC 61558-2 (as relevant) and clause 20.1.4	THE THE	N/A
14.3.1	Transformers and inductors marked with manufacturer's name and type	All In	P
	Transformers and inductors separately approved:	7,1	N/A
14.3.2	General	25	P
)	Insulation material complies with clause 20.1.4	5	S P
14.3.3	Constructional requirements		Р
14.3.3.1	Clearances and creepage distances comply with clause 13		P
14.3.3.2	Transformers meet the constructional requirements	, X	P

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	IEC/EN 60065	Y. TA	
Clause	Requirement – Test	Result – Remark	Verdict
14.3.4	Separation between windings	4 6	P
14.3.4.1	Class II transformers have adequate separation between hazardous live parts and accessible parts (double or reinforced insulation)	AND LINE LAND	P
	Coil formers and partition walls > 0,4 mm	T.A.	P
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/A
14.3.4.3	Separating transformers with at least basic insulation	No separating transformers	N/A
14.3.5	Insulation between HAZARDOUS LIVE parts and ACCESSIBLE parts	Fig. 12	N/A
14.3.5.1	Class II transformers have adequate insulation between hazardous live parts and accessible parts (double or reinforced insulation)		N/A
	Coil formers and partition walls > 0,4 mm	19 4	N/A
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	E. TAR. MALE	N/A
74	Winding wires connected to protective earth have adequate current-carrying capacity	5	N/A
14.4	High voltage components	No high voltage components	N/A
F	High-voltage components and assemblies: U > 4 kV (peak) separately approved	A Line	N/A
Č A	Component meets category V-1 of IEC 60695-11-10	Z Z Z	N/A
14.4.1	High voltage transformers and multipliers tested as part of the submission	, S	A N/A
14.4.2	High voltage assemblies and other parts tested as part of the submission		N/A
14.5	Protective devices	A A	P
72	Protective devices used within their ratings	A. A.	P
<	External clearances and creepage distances meet requirement of clause 13 for the voltage across the device when opened	See appended table	Р
14.5.1.1	a) Thermal cut-outs separately approved	No such parts.	/ N/A
,	b) Thermal cut-outs tested as part of the submission	£ 3 5	N/A
14.5.1.2	a) Thermal links separately approved	Approved thermostat used. (see appended table )	P
1	b) Thermal links tested as part of the submission	6	N/A

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7,	IEC/EN 60065	T. IF	
Clause	Requirement – Test	Result – Remark	Verdict
14.5.1.3	Thermal devices re-settable by soldering	4 5	N/A
14.5.2.1	Fuse-links in the mains circuit according to IEC 60127	Approved thermostat used. (see appended table )	P
14.5.2.2	Correct marking of fuse-links adjacent to holder:	THE STATE OF THE S	P.F
14.5.2.3	Not possible to connect fuses in parallel:	4 5	P
14.5.2,4	Not possible to touch hazardous live parts when replacing fuse-links without the use of a tool:	Complied with	P
14.5.3	PTC thermistors comply with IEC 60730-1:2007	No such parts	N/A
	PTC devices (15 W) category V-1 or better	No such parts	N/A
14.5.4	Circuit protectors have adequate breaking capacity and their position is correctly marked		N/A
14.6	Switches	Approved mains switch used.	P
14.6.1 a)	Separate testing to IEC 61058-1 including: - 10 000 operations - Normal pollution suitability - Make and break speed independent of speed of actuation	THE THE WAY	P
	V-0 compliance with annex G, G.1.1	49	45
14.6.1 b)	Tested in the apparatus:	4 65	N/A
S. Y	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	The The T	N/A
	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/A
HAY	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	THE SHARE	N/A
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	TAN. T.	N/A
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	5	N/A
14.6.4	Switch tested to 14.6.1 b) has adequate dielectric strength	A AN A	N/A
14.6.5	Mains switch controlling mains socket outlets additional tests to IEC 60058-1	No such switch used.	N/A
7,	Socket outlet current marking correct		N/A

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	IEC/EN 60065		
Clause	Requirement – Test	Result – Remark	Verdic
4.7	Safety interlocks	No safety interlocks used	N/A
3	Safety interlocks to 2.8 of IEC 60950-1	The State of	N/A
4.8	Voltage setting devices and the like	E THE VIEW	N/A
,	Voltage setting device not likely to be changed accidentally		N/A
4.9	Motors	No such parts	N/A
4.9.1	Endurance test on motors	THE THE	N/A
, C	Motor start test	The The	N/A
	Dielectric strength test	THE I	N/A
4.9.2	Not adversely affected by oil or grease etc.	À .	N/A
4.9.3	Protection against moving parts		N/A
4.9.4	Motors with phase-shifting capacitors, three-phase motors and series motors meet clause. B.8, B.9 and B.10 of IEC 60950-1, Annex B	THE THE PERSON NAMED IN TH	N/A
4.10	Batteries	T. T.	N/A
4.10.1	Batteries mounted with no risk of accumulation of flammable gases	5	N/A
4.10.2	No possibility of recharging non-rechargeable batteries	F S	N/A
4.10.3	Recharging currents and times within manufacturers limits	THE IN I	N/A
	Lithium batteries discharge and reverse currents within the manufacturers limits	TIE	N/A
4.10.4	Battery mould stress relief	49 , 4	N/A
4.10.5	Battery drop test	E S R	N/A
4.11	Optocouplers	No such parts	N/A
T.	a) Comply with 13.6 (jointed insulation) and N.2.1	E. Y.	N/A
	b) Comply with IEC 60747-5-5:2007	~	N/A
	Alternative to a) and b) optocoupler comply with 13.8	15	N/A
	a) Comply with 13.6 (jointed insulation) and N.2.1	5	N/A
4.12	Surge suppression varistors		N/A
78	Comply with IEC 61051-2	4 14 FR	N/A
IN	Not connected between mains and accessible parts except for earthed parts of permanently connected apparatus	4	N/A

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5	IEC/EN 60065	T. TE	
Clause	Requirement – Test	Result – Remark	Verdict
	Complies with the current pulse, fire hazard and thermal stress requirements of 14.12		N/A
15	TERMINALS	ATT THE TENT	P
15.1.1	Mains plug, appliance inlet, interconnection couplers and mains socket-outlet meet the appropriate standard	(see appended table 14)	PA
EST	Overloading of plugs or appliance inlets prevented if the apparatus has mains socket outlets		N/A
N. S.	Overloading of internal wiring prevented if the apparatus has mains socket outlets		N/A
15.1.2	Connectors for antenna, earth, audio, video or data	Fig. 14	₹ <sup>P</sup> P
1	No risk of insertion in mains socket-outlets	Mismatch of connector is prevented by its incompatible form or location	Р
4	No risk of insertion into audio- or video- outlets marked with the symbol of 5.2	No outlets marked with the symbol of 5.2.	N/A
5.1.3	Output terminals of a.c. adaptors or similar devices not compatible with household mains socket-outlets	No such terminals	N/A
5.2	Provision for protective earthing	11/1	P
87	Accessible conductive parts of Class I equipment reliably connected to earth terminal, within equipment	Complied with.	PS
~	Protective earth conductors correctly coloured	Green/yellow wire used.	P
	Equipment with non-detachable mains cord provided with separate protective earth terminal near mains input	Detachable main cord provided.	N/A
	Protective earth terminal resistant to corrosion	,6	S P
Ź	Earth resistance test: $< 0.1 \Omega$ at 25 A	0.05Ω	P
.5.3	Terminals for external flexible cords and for permanent connection to the mains supply	N. A.	P
5.3.1	Adequate terminals for connection of permanent wiring	, F	N/A
5.3.2	Reliable connection of non-detachable cords:	Α'.	N/A
	Not soldered to conductors of a printed circuit board	2	N/A
	Adequate clearances and creepage distances between connections should a wire break away	THE MAN !	9 N/A
78	Wire secured by additional means to the conductor	A TA THE	N/A
5.3.3	Screws and nuts clamping conductors have adequate threads: ISO 261, ISO 262 or similar	No such fixing	N/A
	.0	.0	

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	IEC/EN 60065	T. A.	
Clause	Requirement – Test	Result – Remark	Verdict
15.3.4	Soldered conductors wrapped around terminal prior to soldering or held in place by additional means		N/A
N. W.	Clamping of conductor and insulation if not soldered or held by screws	A. A. I. I.	N/A
15.3.5	Terminals allow connection of appropriate cross-sectional area of conductors, for the rated current of the equipment	18 6	N/A
15.3.6	Terminals to 15.3.3 have sizes required by table 16	No such terminals.	N/A
15.3.7	Terminals clamp conductors between metal and have adequate pressure	No such terminals.	N/A
	Terminals designed to avoid conductor slipping out when tightened or loosened	N. Y.	N/A
/	Terminals adequately fixed to avoid loosening when the clamping is tightened or loosened and stress on internal wiring is avoided	S ELL	N/A
15.3.8	Terminals carrying a current more than 0,2 A: contact pressure not transmitted by insulating material except ceramic		N/A
15.3.9	Termination of non-detachable cords: wires terminated near to each other	18	N/A
	Terminals located and shielded: test with 8 mm strand	(2)	N/A
15.4	Devices forming a part of the mains plug	Not direct plug-in equipment	N/A
15.4.1	No undue strain on mains socket-outlets	F. F.	N/A
15.4.2 A	Device complies with standard for dimensions of mains plugs	THE THE PERSON NAMED IN	N/A
15.4.3	Device has adequate mechanical strength (tests a,b,c)	,6	N/A
16	EXTERNAL FLEXIBLE CORDS	\$ 5 \$	N/A
16.1	Mains cords sheathed type, complying with IEC 60227 for PVC or IEC 60245 for synthetic rubber cords:	LE LE	N/A
77	Non-detachable cords for Class I have green/yellow core for protective earth	The state of the s	N/A
16.2	Mains cords conductors have adequate cross-sectional area for rated current consumption of the equipment	, S	N/A
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/A
TA TA	b) Flexible cords not complying with 16.1, withstand bending and mechanical stress (3.2 of IEC 60227-2)	, I'M	N/A
	Flexible cords used for connection between equipment		N/A

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3,	IEC/EN 60065	T, E	3
Clause	Requirement – Test	Result – Remark	Verdict
	have adequate cross-sectional areas to avoid temperature rise under normal and fault conditions	1 2 X	4
16.5	Adequate strain relief on external flexible cords	The Part of	N/A
72	Not possible to push cord back into equipment	A F	N/A
	Strain relief device unlikely to damage flexible cord	~	N/A
E. E.	For mains cords of Class I equipment, hazardous live conductors become taut before earth conductor		N/A
16.6	Apertures for external flexible cord: no risk of damage to the cord during assembly or movement in use	A A	N/A
16.7	Transportable musical instruments and amplifiers fitted with detachable cord set with appliance inlet to IEC 60320-1	IN A	N/A
-	Transportable musical instruments and amplifiers fitted with detachable cord sets or with means of stowage to protect the cord		N/A
17	ELECTRICAL CONNECTIONS AND MECHANICAL	FIXINGS	P
17.1	Torque test to table 20:	Metal screw with diameter 3 mm for fastening of metallic enclosure.	P
	- Screws into metal: 5 times	2	N/A
5	- Screws into non-metallic material: 10 times	£ £	N/A
17.2	Correct introduction into female threads in non-metallic material	THE THE I	N/A
17.3	Cover fixing screws: captive	No reduction of clearance or creepage distance.	N/A
	Non-captive fixing screws: no hazard when replaced by a screw whose length is 10 times its diameter	No hazard when replaced by a screw whose length is 10 times nominal diameter.	N/A
17.4	No loosening of conductive parts carrying a current > 0,2 A	All conductive parts are fixed on PCB by at least two soldering points.	N/A
17.5	Contact pressure not transmitted through plastic other than ceramic for connections carrying a current > 0,2 A	Complied with.	N/A
17.6	Stranded conductors of flexible supply cords carrying a current > 0,2 A with screw terminals not consolidated by solder		N/A
17.7	Cover fixing devices other than screws have adequate strength and their positioning is unambiguous	No cover fixing devices.	N/A
17.8	Fixing devices for detachable legs or stands provided	No detachable legs or stands.	N/A
17.9	Internal pluggable connections, affecting safety,	Internal pluggable connections have mechanical securing.	N/A

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	IEC/EN 60065	Y. T.	
Clause	Requirement – Test	Result – Remark	Verdict
18	Mechanical strength of picture tubes and protection again	ast the effects of implosion	N/A
18.1	Picture tube separately approved to IEC 61965:	No such parts	N/A
IR	Picture tube separately approved to 18.2	B. T.	N/A
18.2	Non-intrinsically protected tubes tested to 18.2	7,3	N/A
19	STABILITY AND MECHANICAL HAZARDS		P
, R	Mass of the equipment exceeding 7 kg:	No hazard	P
Z.	Apparatus intended to be fastened in place – suitable instructions	No hazard	N. P.
19.1	Test on a plane, inclined at 10o to the horizontal	77 7	P
19.2	100 N force applied vertically downwards	65	P
19.3	100 N force, or 13% of weight, applied horizontally to point of least stability.		P
19.4	Edges or corners not hazardous	Edges or corners are smooth and rounded.	P
19.5	Glass surfaces (exc.laminated) with an area exceeding 0,1 m <sup>2</sup> or maximum dimension > 450 mm, pass the test of 19.5.1	No glass surface used.	N/A
19.6	Wall or ceiling mountings means	Not such mounting	N/A
20	RESISTANCE TO FIRE	The The I	P
20.1	Electrical components and mechanical parts	THE	P
	a) Exemption for components contained in an enclosure of material V-0 to IEC 60695-11-10 with openings not exceeding 1 mm in width	Metallic enclosure provided.	P
The	b) Exemption for small components as defined in 20.1		P
20.1.1	Electrical components meet the requirements of Clause 14 or 20.1.4	The state of the s	PA
20.1.2	Insulation of internal wiring working at voltages > 4 kV or leaving an internal fire enclosure, or located within the areas mentioned in Table 21, not contributing to the spread of fire	Internal wiring working at voltages not exceeding 4 kV	N/A
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 IEC 60707, unless used in a fire enclosure	A TAME THE TAME	P
TA	Material of printed circuit boards on which the available power exceeds 15 W at a voltage >400 V	V-0 PCB used.	N/A

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	IEC/EN 60065		
Clause	Requirement – Test	Result – Remark	Verdict
	(peak) a.c. or d.c. meets V-0 to IEC 60707	4 6	4
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	See appended table	P
150	Components and parts as above but shielded from a potential ignition source, with the barrier area in accordance with Table 21 and fig. 13		P
N. N. S.	Apparatus with voltages >4kV under normal operating conditions and distances to the enclosure exceed those specified Table 21, flammability classification HB40 or better is required for the enclosure	Voltages<4kV. Fire enclosure not needed	N/A
20.2	Fire enclosure	Metal enclosure as fire enclosure	N/A
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/A
0.2.2	Internal fire enclosures with openings not exceeding 1 mm in width and with openings for wires completely filled		N/A
0.2.3	Requirements of 20.2.1 and 20.2.2 met by an internal fire enclosure	25	N/A
12	ANNEX A, ADDITIONAL REQUIREMENTS FOR AI AGAINST SPLASHING WATER	PPARATUS WITH PROTECTION	N/A
A.5	Marking and instructions	T. T.	N/A
A.5.1	j) Marked with IPX4 (IEC 60529), 5.4.1 a) does not apply		N/A
A.10	Insulation requirements	5 5	N/A
1.10.2	Splash and humidity treatment		N/A
1.10.2.1	Enclosure provides protection against splashing water	The state of	N/A
1.10.2.2	Humidity treatment carried out for 7 days	T. T.	N/A
		\$	* T/4
3	ANNEX B, APPARATUS TO BE CONNECTED TO NETWORKS	THE TELECOMMUNICATION	N/A
	The state of the s	1 4	3.7/4
HA	Complies with IEC 62151 clause 1	Not intended for telecommunication networks.	N/A

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7.	IEC/EN 60065	V. P.	
Clause	Requirement – Test	Result – Remark	Verdict
٨,	Complies with IEC 62151 clause 3 but with 3.5.4 modified to 2.4.10 of this standard		N/A
TAN	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	ATT THE THE	N/A
18	Complies with IEC 62151 cause 5 but with 5.3.1 modified in accordance with annex B of this standard		N/A
R	Complies with IEC 62151 clause 6	THE TAX	N/A
; Z.	Complies with IEC 62151 clause 7	H IN	N/A
	Complies with IEC 62151 annex A, B and C	A Z	N/A
L	ANNEX L, ADDITIONAL REQUIREMENTS APPARATUS FOR PHOTOGRAPHIC PURPOSES.	FOR ELECTRONIC FLASH	N/A
L. 5	Marking and instructions	E ZY E	N/A
L5.4	Instructions for battery chargers and Supply apparatus indicating type or model number of flash apparatus with which it is to be used	The Table	N/A
4	Instructions for flash apparatus indicating type or model number of battery chargers or Supply apparatus with which it is to be used		N/A
L. 7	Heating under normal operating conditions	E E	N/A
L7.1.5 & /	Lithium batteries meet permissible temp rise in Table 3, unless comply with 6.2.2.1 or 6.2.2.2 of IEC 60086-4		N/A
L. 9	Electric shock hazard under normal operating conditions		N/A
L9.1.1	Terminals to connection to synchroniser not HAZARDOUS LIVE	AND LIE	N/A
L9.1.1.1	If possible, flashing is made during the measurements	~	N/A
L.10	Insulation requirements	4	N/A
L10.3.2	High frequency puls ignition	Li Er L	N/A
L. 12	Mechanical strength	The The	N/A
L12.1.3	Windows for flash tubes are excluded from the steel ball inpact test	L. A.	N/A
	, S	,65	, 6

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7	IEC/EN 60065		
Clause	Requirement – Test	Result – Remark	Verdict
L. 14	Components	2 6	N/A
L14.6.6	Mains switch characteristics appropriate to its function under normal conditions	AND THE INTERPRETATION OF THE PARTY OF THE P	N/A
L. 20	Resistance to fire	T. A.	N/A
L20.1 c)	Trigger coil for discharge purpose is not considered to be a POTENTIAL IGNITION SOURCE		N/A

	IEC 60065, GROUP DIFFERENCES (CENELEC &	ommon modifications (EN))	P
Contents	Add the following annexes:		P
	Annex ZA (normative) Other international publications references of the relevant European publications (See the Annex ZB (nominative) Special national conditions Annex ZC (informative) A-deviations		S ANT
Definition 2.2.Z1	Add after the definition 2.2.12 the following new definition:		N/A
(A11:2008)	PORTABLE SOUND SYSTEM		4
	small battery powered audio equipment:	,65	1,5
4	<ul> <li>whose prime purpose is to listen to recorded or broadcasted sound; and</li> </ul>		A.
	• that uses headphones or earphones that can be worn in or on or around the ears; and	The state of the s	Y.
K 1	that allows the user to walk around		
	NOTE Examples are mini-disc or AM/FM Tuners, MP3 audio players or similar equipment.		<u> </u>
2.2	In EN 60065:2002/A11:2008	4 4	N/A
(A12:2011)	Delete the definition 2.2.Z1	S &	1

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	7	A, 14 A, 14		<u> </u>	_
	3.1	Add the following indent at the end of the list	T, E	N/A	
1		- Exposure to excessive sound pressures from	~	4	
		headphones or earphones		,5	l
		NOTE A new method of measurement is described in	2/1	24	l
	<u></u>	EN 50332-1, Sound system equipment: Headphones and	5 49 5	1	l
4	7	earphones associated with portable audio equipment	7 6 3		(
	2	- Maximum sound pressure level measurement		2	F
	77	methodology and limit considerations – Part 1: General			l
		method for "one package equipment", and in EN 50332-2, Sound system equipment: Headphones			ĺ
		and earphones associated with portable audio equipment	_		ĺ
		<ul> <li>Maximum sound pressure level measurement</li> </ul>	6		ĺ
	4	methodology and limit considerations - Part 2:		<u>^</u>	l
	2	Guidelines to associate sets with headphones coming	4 5	14	ĺ
	7/	from different manufacturers.		2	ĺ
	3.1	In EN 60065:2002	The The	N/A	,
<	(A12:2011)	Delete the addition of indent regarding sound pressure	F	F	ĺ
		excessive	Α		ĺ
	3.Z1	After 3.2 add a new clause 3.Z1:	6	P	ĺ
ć	(A2:2010)	To protect against excessive current, short-circuits and		A- A	4
4		earth faults in MAINS, protective devices shall be		0	-
	47	included either as integral parts of the equipment or as		37	ĺ
	(4)	parts of the building installation, subject to the	E E	F	ĺ
	X	following, a), b) and c):	Z Z	7	ĺ
	2	a) except as detailed in b) and c), protective devices necessary to comply with the requirements of 11 shall be	T. T.		ĺ
	77	included as parts of the equipment;	_	4	ĺ
		b) for components in series or parallel with the mains	,6	,5	ĺ
	12	input to the equipment such as the supply cord,		74	l
	6	appliance coupler, r.f.i. filter and switch, short-circuit	F 42	F	ĺ
	4	and earth fault protection may be provided by protective	Z. 7.	7,	ĺ
	5	devices in the building installation;	T IT I	Z.	ĺ
1		c) it is permitted for equipment supplied via an industrial	2		0
-		mains plug or for PERMANENTLY CONNECTED		7	-
		APPARATUS, to rely on dedicated over current and short-circuit protection in the building installation,	_		ĺ
		provided that the means of protection, e.g. fuses or	49 . 4	2	ĺ
7	14	circuit breakers, is fully specified in the installation			ċ
0	· P	instructions,	The The		4
	<u> </u>	If reliance is placed on protection in the building	A Z	· F	ĺ
	F	installation, the installation instructions shall so state,		7.	l
	~	except that for not via an industrial mains plug or for		R	l
		PERMANENTLY CONNECTED APPARATUS the	~	~	ĺ
	411	building installation shall be regarded		7.7/4	
	4.1.1	Replace the text of the note by: NOTE For ROUTINE TEST reference is made to EN 50514.		N/A	
4	7	1EST reference is made to EN 30314.	5 5	Ś	1
,	5.4.1	Modify indent za) as follows:	25 2	N/A	X
	za)	za) For a PORTABLE SOUND SYSTEM, a warning		E. S.	ĺ
	(A11:2008)	that excessive sound pressure from earphones and	7, 34,	1	ĺ
	7,	headphones can cause hearing loss.	18.		l

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5.4.1 (A12:2011)	In EN 60065:2002/A1:2006 60065;2002/A11:2008	and EN	7,	THE	N/A
(1112.2011)	Delete the modification in indent za)	<	4		5
٨.	Add the following clause and annex to t standard and amendments	he excisting	145	19	
S ZY	Zx Protection against excessive sound pressu	ire from perso	nal music play	ers	5



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	7, 7,		2		T	_
1	Zx.1 General	77,	7,	F	N/A	
	This sub-clause specifies requirements for	r protection		~	,	
	against excessive sound pressure from		4		,5	
	personal music players that are closely cou	upled to the	49		24	
1	ear. It also specifies requirements for	5		4 5		,
X	earphones and headphones intended for	use with	Z, ,	5 3	5	5
	personal music players.	- 4	· 3	77,	7	
	A personal music player is a portable equip	oment for	R		R	
	personal use, that:		7.	4	Α,	
	is designed to allow the user to listen	to recorded		,5		
	or broadcast sound or video; and	.49	4	24	4	
	primarily uses headphones or earphor	nes that can	,47	XF	4	
	be worn in or on or around the ears; and	ics that can	E .	2	S	
	allows the user to walk around while in	use	377	77	Z,	1
	NOTE 1 Examples are hand-held or body-w	^	F	9	R	
(	AM/FM Tuners, MP3 audio players, mobile			^	<b>N</b>	
	MP3 type	phones with		15		1
	features, PDA's or similar equipment.	4	6	~	<u> </u>	~
ć	A personal music player and earphones or	headphones	J. Z.	. 4	72	
/	intended to be used with personal	neadphones	E.	F	E.	
	music players shall comply with the requirer	ments of this		ZT.	77	
	sub-clause.	nents of this		F		
	The requirements in this sub-clause are valid	id for music			4	
	or video mode only.	id for masic			40	
	The requirements do not apply:	5		.5	7	
	while the personal music player is c	onnected to		24	Th	
	an external amplifier; or	XP.		T.	K	
1	while the headphones or earphones are i	not used		Z. Y		" 1
	NOTE 2 An external amplifier is an amplif		Ž.	The second	Ž.	X
	not part of the personal music player or t				4	
,(	device, but which is			4	9	
<	intended to play the music as a standalone m	usic player.		S	/	C
	The requirements do not apply to:			· Zr.		1
		professional	77	T. P.	Z.F.	
	equipment;		E.		E.	
	NOTE 3 Professional equipment is equi	pment sold	Y,		7,	
	through special sales channels. All products s			4		
	normal	43	)	43	,	
	electronics stores are considered not to be	professional	,5	5	,5	5
,<	equipment.		~ 3	S. C.	4 3	1
-	analogue personal music players (pers	sonal music	· R	ZZ	R	
	players without any kind of digital	2	^	E. S.		
	processing of the sound signal) that are bro	ught to the		1/1		
	market before the end of 2015.		6		5	
	NOTE 1 This examption has been allowed	because this	4,	1.00	41	l

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NOTE 4 This exemption has been allowed because this
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~			
Cont.	Zx.2 Equipment requirements	Y, E	N/A
	No safety provision is required for equipment that	K	,
	complies with the following:	4	,6
	equipment provided as a package (personal music	69 1	24
	player with its listening device), where	5 2	3
	the acoustic output LAeq,T is $\leq 85$ dBA measured	The Tr.	7
E	while playing the fixed "programme	5 77	The state of
7	simulation noise" as described in EN 50332-1; and	F	F
	a personal music player provided with an	~	
4	analogue electrical output socket for a listening		,5
49	device, where the electrical output is $\leq 27 \text{ mV}$	)	14
	measured as described in EN 50332-2, while	4	T B
The same	playing the fixed "programme simulation noise" as	2. 3	
7	described in EN 50332-1.	The The	37,
		F	F
Ž.	NOTE 1 Wherever the term acoustic output is used in	K. ,	4
	this clause, the 30 s A-weighted equivalent sound	5	
	pressure level LAeq,T is	4 4	4
	meant. See also Zx.5 and Annex Zx.	S X	4 5
4	All other equipment shall:	3	7. 3.
F	a) protect the user from unintentional acoustic		The The
The same of the sa	outputs exceeding those mentioned above; and		F
T.	b) have a standard acoustic output level not exceeding	^	
	those mentioned above, and		,6
	automatically return to an output level not exceeding		1 14
5	those mentioned above when the		£ 7
24	power is switched off; and	3 5	3
F.	c) provide a means to actively inform the user of the	The The	7,8
	ncreased sound pressure when the equipment is	F	
	operated with an acoustic output exceeding those		4
	mentioned above. Any means used shall be		5
.4	acknowledged by the user before activating a mode of	4	24
5	operation which allows for an acoustic output	4	XF.
Fy.	exceeding those mentioned above. The		2
F	acknowledgement does not need to be repeated more	Zy,	(1)
~	than once every 20 h of cumulative	F	R
Cont.	listening time; and	Α'	~
4	NOTE 2 Examples of means include visual or audible	6	i.
5	signals. Action from the user is always required.	4	4
/	NOTE 3 The 20 h listening time is the accumulative	19 8	5
,	listening time, independent how often and how long the		4 3
6	personal music	F	The The
Fri	player has been switched off.	~	Z' \
F	d) have a warning as specified in Zx.3; and		771
1	e) not exceed the following:	4	, de
	1) equipment provided as a package (player with	1,5	1,-

4F,A3 BLDG,The Silicon Valley Power intelligent terminal industrial park,Guan lan street,Longhua district,Shenzhen



1	For music where the average sound pressure (long term	N/A
	LAeq,T) measured over the duration of the song is	_
	lower than the average produced by the programme	49
	simulation noise, the warning does not need to be given	
R	as long as the average sound pressure of the song is	
5	below the basic limit of 85 dBA. In this case T becomes	5
	the duration of the song.	2
	NOTE 4 Classical music typically has an average sound	7/1
	pressure (long term LAeq,T) which is much lower than	
	the average	7
	programme simulation noise. Therefore, if the player is	5
	capable to analyse the song and compare it with the	
	programme	7/2
	simulation noise, the warning does not need to be given	F
1	as long as the average sound pressure of the song is	,
	below the basic	
	limit of 85 dBA.	4 4
ć	For example, if the player is set with the programme	o R
(i)	simulation noise to 85 dBA, but the average music level	- Z.
	of the song is only	TA
	65 dBA, there is no need to give a warning or ask an	
	acknowledgement as long as the average sound level of	,
	the song is not above the basic limit of 85 dBA.	

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	. 7		~ ~	<u> </u>	_
R	Z /	Zx.3 Warning	T. A.	N/A	Ž.
		The warning shall be placed on the equipment, or on the	Z	6	
		packaging, or in the instruction manual and shall consist	5	4	
	4	of the following:	19		
4	2	the symbol of Figure 1 with a minimum height	3 2 3	v.	1
	7	of 5 mm; and	Z Z Z	>	7
	The	the following wording, or similar:	7	7	
	16.1	"To prevent possible hearing damage, do not listen at	77	77	
	,	high volume levels for long periods."	, A		
100	MHAITES II.	Figure 1 – Warning label (IEC 60417-6044) Alternatively, the entire warning may be given through the equipment display during use, when the user is asked to acknowledge activation of the higher level.	SHIP TO SHIP T	THAMPINGS TO THE ST.	
	Cont.	Zx.4 Requirements for listening devices (headphones and	earnhones)	N/A	1
		Zii. Trequirements for insteming devices (treadprovies and	curpitotics)	24	
	5	Zx.4.1 Wired listening devices with analogue input	4	N/A	1
	4	With 94 dBA sound pressure output LAeq,T, the input	3	IN/A	
	F S	voltage of the fixed "programme simulation noise"	THE THE T	X.	
3		described in EN 50332-2 shall be $\geq$ 75 mV.	F		8
				, .	
		This requirement is applicable in any mode where the headphones can operate (active or	,6	5	
,	.4	passive), including any available setting (for example	W A B	/	
5		built-in volume level control).	4 7		V
	Fr	NOTE The values of 94 dBA – 75 mV correspond with	E E	8	
	F	85dBA – 27 mV and 100 dBA – 150 mV.	Zy, Yy	74,	
	A .	osubA = 27 mv anu 100 ubA = 130 mv.			1

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	6, 6, 6, 7,		Α,
A A A	Zx.4.2 Wired listening devices with digital input	T. T. W.	N/A
	With any playing device playing the fixed "programme	5	25
4	simulation noise" described in	4 ,5	5
49 3	EN 50332-1 (and respecting the digital interface	X 1 3	
·	standards, where a digital interface standard	Z Z Z	77
72	exists that specifies the equivalent acoustic level), the	Z A	
18.4	acoustic output LAeq,T of the listening device shall be ≤	77	77
	100 dBA.	, é	
,65	This requirement is applicable in any mode where the	2 24	4
24	headphones can operate, including any available setting	19	150
T	(for example built-in volume level control, additional	En Zi.	7
	sound feature like	72 12	T.
4	equalization, etc.).	EZ,	5
, ·	T T	~	
_	NOTE An example of a wired listening device with	5	
9	digital input is a USB headphone.	4	4
6	Zx.4.3 Wireless listening devices	8 8 4	N/A
24	In wireless mode:		= = = = = = = = = = = = = = = = = = = =
R	with any playing and transmitting device playing	The Free	T. T.
7	the fixed programme simulation noise described	, F	
TA	in EN 50332-1; and	A. A.	,
	respecting the wireless transmission standards,	,5	,5
	where an air interface standard exists that	~ ~	74
.5	specifies the equivalent acoustic level; and	J. 43	72
24	with volume and sound settings in the listening	3	2
Z.	device (for example built-in volume level control,	71 ZI 1	7
3	additional sound feature like equalization, etc.) set to	F	
	the combination of positions that maximize the	_	_
	measured acoustic output for the above- mentioned	19	9
4	programme simulation noise, the acoustic output	5 5	V
o F	LAeq,T of the listening device shall be $\leq 100 \text{ dBA}$ .	4 7	
ZZ,	The River St. St.	E E	R
'A	NOTE An example of a wireless listening device is a	7.	70
	Bluetooth headphone.	TA	T. A.
	Zx.5 Measurement methods	4	N/A
<u></u>	Measurements shall be made in accordance with EN	15	
47	50332-1 or EN 50332-2 as applicable.	6	6
	Unless stated otherwise, the time interval T shall be 30 s.	The state of the	W X
(	Zi A A	E E E	E.
78	NOTE Test method for wireless equipment provided	7, 7,	7,,
A.	without listening device should be defined.	T. R.	

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		A A A			_
N N	6.1	Replace the entire subclause in EN 60065:2002 and EN 60065:2002/A1:2006 by:	T. I.B.	N/A	~
	(A11:2008)	Ionizing radiation	4	5	
7	<u>د</u> د	Apparatus including a potential source of ionizing radiation shall be so constructed that personal			
Z	, And	protection against ionizing radiation is provided under normal operating conditions and under fault	The state of the s	5	1/4
	72	conditions.	2 ^	2	
		Compliance is checked by measurement under the following conditions:	77	77	
	6	In addition to the normal operating conditions, all	49		
	4	controls adjustable from the outside BY HAND, by any	6 5	5	
	, V	object such as a tool or a coin, and those internal adjustments or pre-sets which are not locked in a reliable	24 27	25	
	77.	manner, are adjusted so as to give maximum radiation	R E	R	
1	<b>F</b>	whilst maintaining an intelligible picture for 1 h, at the	Zr Zr	72	1
-		end of which the measurement is made.	T. S.	'A'	
	1	NOTE 1 Soldered joints and paint lockings are examples		Ť.	
1	_	of adequate locking.	15		1
,		The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm <sup>2</sup> , at any point 10		<u> </u>	
	,0	cm from the outer surface of the apparatus.	4 7 4	The state of the s	
	1	Moreover, the measurement shall be made under fault	\$ . E	5	
	T	conditions causing an increase of the high-voltage,		77	
	2	provided an intelligible picture is maintained for 1 h, at	F		
	T.X.	the end of which the measurement is made.	_	4	
		The dose-rate shall not exceed $1\mu Sv/h$ (0,1 mR/h) taking account of the background level.	4	12	
	195	NOTE 2 These values appear in Directive 96/29/Euratom of 13th May 1996.	The Last	T. S.	
, ,	Z .	A picture is considered to be intelligible if the following conditions are met:	THE THE T	3	-
1	. ^	- a scanning amplitude of at least 70 % of the usable screen width;	TA,	Ä	R.
	,5	- a minimum luminance of 50 cd/m² with locked blank raster provided by a test generator;	2 4	5	
1	7	- a horizontal resolution corresponding to at least 1,5 MHz in the centre, with a similar vertical degradation;	The Man	4	0
	Zx.	- not more than one flashover per 5 min.	JE JE	J.F.	

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7	- P - P - P	D (4)	Υ,
Z1	Add the following new clause after Clause 20:	Y, E	N/A
(A11:2008)	Z1 Resistance to candle flame ignition	~	,
4	A television set shall be so designed that the likelihood of ignition and the spread of fire caused by a candle flame is reduced.		123
N. N	NOTE 1 An apparatus with a viewing screen is not regarded to be a television set if it is declared not to be so by the manufacturer.		3
	This requirement does not apply to the display screen of rear projection TV's.	T. T.	TR
AN FEST	NOTE 2 This exemption has been allowed because this technology is falling out of use and it is expected that within a few years it will no longer exist. This exemption will not be extended to other technologies.	2 2	12/2
A. A.	NOTE 3 The frame around the screen is not exempted from the requirements.	THE LIE	THE .
	Wood and WOOD-BASED MATERIAL with a thickness of at least 6 mm is considered to fulfil the V-1 requirement when applying CLC/TS 62441.	77	Z
9	Compliance is checked according to CLC/TS 62441.	4 4	4
I I MILITA	NOTE 4 The term vertical, as used in the first dash of clause 5.2 of CLC/TS 62441, does not mean a perfectly vertical position. It should be interpreted as any surface that can be touched by the flame of a candle of 150 mm height and 20mm diameter while the candle is still touching the supporting surface. A typical candle used in the home is assumed to be 20 mm diameter.	A A A A A A A A A A A A A A A A A A A	N. H. K.
44	NOTE 5 It is expected that CLC/TS 62441 will in the future be replaced by a standard, at which time that standard will become applicable, subject to a vote by National Committees at the time.	15	WHANTES,
General	Delete note 4. Delete note 4 and note 5. Delete notes 1 and 2.	THE TANK Y	N/A
	15.2 Delete note 2. 16.1 Delete note 1. 16.2 Delete the note. 20 Delete note 2.		5,
I WHITE	Annex B Replace note 1 by: In the CENELEC special national conditions apply.  Annex G Delete the note.  Annex J.2 Delete the notes of Table J.1.  Annex N Add after the introduction: For ROUTINE 50333. (Replaced by EN 50514)	MILE LIE	THE WALL
General	In IEC 60065:2001/A2	, , , , , , , ,	N/A
(A2:2010)	Delete all the "country" notes according to the following I 5.3 Note 5.4.1 Note 20 Note For special national conditions, see Annex ZB.	list:	Sy MAI
Bibliograph y	h Additional EN standards.	,5	Ś
	6 41	47	47

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X	ZA	Normative references to international publications	P
		with their corresponding European publications	5
		,9° ,9° ,	4

ZB	ANNEX ZB TO EN 60065, SPECIAL NATIONAL CO	NDITIONS (EN)	P
2.6.1	DK: The following is added:	File Til	N/A
4	Certain types of CLASS I apparatus, see 15.1.1, may be provided with a plug not establishing earthing continuity when inserted in Danish socket-outlets	77	TA
15	Justification: Heavy Current Regulations, Section 107.	L L	4
M		Li AT	2
3.Z1	Denmark	The The	N/A
(A2:2010)	Add to the end of the subclause	E.	7
,	Due to many existing installations where the socket-outlets can be protected with		
	fuses with higher rating than the rating of the socket-outlets the protection for		
4	pluggable equipment type A shall be an integral part of the equipment.	Sala Sala	ZY
J.F.	Justification:		1/1
I.R.	In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	TR	4
5.3	Finland, Norway and Sweden	L.	N/A
(A2:2010)	To the end of the subclause the following is added:	5 5	5
2	CLASS I apparatus which is intended for connection to the building installation wiring	A A	ZII'
Z ×	via a plug or an appliance coupler, or both and in addition is intended for connection	N. A.	
	to other apparatus or a network shall, if safety relies on connection to protective earth	5	45
Á	or if surge suppressors are connected between the network TERMINALS and	5	V
ZHE	ACCESSIBLE parts, have a marking stating that the apparatus must be connected to an	NEW YEAR	R
TA	earthed MAINS socket-outlet.	Tr. Y.	7
	The marking text in the applicable countries shall be as follows:	T <sub>A</sub>	TA
Ś	In Finland: "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan"	4	4
/	In Norway: "Apparatet må tilkoples jordet stikkontakt"	S	5
	In Sweden: "Apparaten skall anslutas till jordat uttag"	, Zi, Y	Y 3

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	V V		
5.4	Finland, Norway and Sweden	7. 18	N/A
(A11:2008)	To the end of 5.4 the following is added:	~	4
S AMARIAN S S S S S S S S S S S S S S S S S S S	CLASS I apparatus which is intended for connection to the building installation wiring via a plug or an appliance coupler, or both and in addition is intended for connection to other apparatus or a network shall, if safety relies on connection to protective earth or if surge suppressors are connected between the network TERMINALS and ACCESSIBLE parts, have a marking stating that the apparatus must be connected to an MAINS socket-outlet with protective earth.	A WHAT THE STATE OF THE STATE O	TAMES.
A WHAT TO SEE THE SEE	The marking text in the applicable countries shall be as follows:  In Finland: "Laite on liitettävä suojamaadoituskoskettimilla varustettuun pistorasiaan"  In Norway: "Apparatet må tilkoples jordet stikkontakt"  In Sweden: "Apparaten skall anslutas till jordat uttag"	SHIP IN THE SHIP I	ANHANTES.

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6	7 2 2	2 1/	V	
5.4.1	Norway and Sweden	Ti, 'BE	N/A	,*
(A11:2008)	To the end of 5.4.1 (after the compliance statement) the following is added:	~	5	
TO THE STATE OF TH	The screen of the cable distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation need to be isolated from the screen of a cable distribution system.	ALL AND	AME.	1/7
4	It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by e.g. a retailer.	ch.	7, 7,	
N. A. W.	The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in:	2	A HAR	/
WHATTES TE	"Equipment connected to the protective earthing of the building installation through the mains connection or through other equipment with a connection to protective earthing – and to a cable distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a cable distribution system has therefore to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)"	TO THE STATE OF TH	I AMAIN OF THE STATE OF THE STA	4.
Z 78	NOTE In Norway, due to regulation for installations of cable distribution systems, and in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min.	THE	HAITEST	
A E	Translation to Norwegian (the Swedish text will also be accepted in Norway):	F JA I	8	
	"Utstyr som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et kabel-TV nett, kan forårsake brannfare. For å unngå dette skal det ved tilkopling av utstyret til kabel-TV nettet installeres en galvanisk isolator mellom utstyret og kabel-TV nettet."	5	45/	8.
ZH	Translation to Swedish:	A A	N. N.	
TA	"Utrustning som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medföra risk för brand.	E	I I I I I I I I I I I I I I I I I I I	
6	Főr att undvika detta skall vid anslutning av utrustningen till kabel-TV nät galvanisk isolator finnas mellan utrustningen och kabel-TV nätet."		5	1/8

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	. 7	D, 2, D, 2,	D (1)	()	_
10	13.3.1	NO: To the second paragraph the following is added:	T. E	N/A	2
		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.		184	
4		Justification: Based on a use in Norway of an IT power distribution system where the neutral is not provided.	E E M	5	1/1
	15.1.1	Denmark	Fr. V.	N/A	
	(A11:2008)	The text of the Danish SNC in EN 60065:2002 has been modified as follows:	72	7	
	5	To the first paragraph the following is added:	(4)	,	
	MHAITE	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.	THE THE PARTY OF T	HAMITES	
	78	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	No. 15	R. S.	,
4	<u>^</u>	with a plug in accordance with the Heavy Current Regulations, Section 107-2-D1 standard sheet DK 2-1a.	The State of	S R	11
	4	To the second paragraph the following is added:	¥ 5	- Z	
	THE WAY	Socket outlets intended for providing power to CLASS II apparatus with a rated current of 2,5 A shall be in accordance with the Heavy Current Regulation, Section 107-2-D1 standard sheet DKA 1-4a.	THE THEFT	T. T.	
	4	Other current ratings socket outlets shall be in compliance with the Heavy Current Regulation, Section 107-2-D1 standard sheet DKA 1-3a or DKA 1-3b.		ATTES	
	4	To the third paragraph the following is added:	Z	<u>Z</u> ,	
1/1	N. I.	Mains socket-outlets with earthing contact shall be in compliance with the Heavy Current Regulation, Section 107-2-D1 standard sheet DK 1-3a, DK 1-5a or DK 1-7a.	A THE T	<u> </u>	1
	A	Justification: Heavy Current Regulations, Section 107-2-D1	6	5	
人つ	15.1.1	IE: Apparatus which is fitted with a flexible cable or cord shall be provided with a 13 A plug in accordance with Statutory Instrument 525:97, "13 A Plugs and Conversion Adapters for Domestic Use Regulations:1997.	The The	N/A	000
		Justification: SI 525: 1997	7,1	77	

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					_
"R"	15.1.1	NO: Mains socket-outlets mounted on CLASS II apparatus shall comply with the specifications given in CEE Publ. 7 as far as a applicable, with the following		N/A	~
		amendments:	á .	43	
	4 4	§ 8 Dimensions	4 5 :		
1	D R	a 2.5 A 250 V two-pole socket-outlets for electronic	7 4 2		1
	7	apparatus shall comply with the enclosed Standard Sheet	K F F	5	5
	TA	Mains socker-outlets mounted on CLASS II apparatus shall comply with the specifications given in CEE Publ. 7 as fas as a Applicable, with the following amendments:	A. V.	N. A. S.	
		§ 6 Dimensions a 2,5 A 250 V two-pole socket-outlets for electronic apparatus shall compily with the enclosed Standard Sheet I.		~	
	4	STANDARD SHEET I	,5		
	49	2.5 A/250 V SOCKET-OUTLET FOR ELECTRONIC APPLIANCES OF CLASS II	1		
		/ R5max.	Li F	,49	
	77	27,5 min.	7, 7,	2	
	F	15+0,5-0	The The	177	1
		45' \$	F	F	
	18	39 41 -1,5			
A		Dimensions in mm	.5		,
5	Č.	Other dimensions according to CEE Publication 7 Standard Sheet I "Portable Single-Way Socket-Outlets".	4	< /	4
_	Ś	Tongore dingre way borner barrets.	P 7 4	S E	
	4	§ 24 Mechanical strength	3. 7.	7,	
	· F	a 2,5 A, 250 V sockel outlets for CLASS II electronic apparatus are tested as specified in 12.1.3 of EN 60065.  Also the protecting rim shall be tested.	The The	TA	
	7	§ 24 Mechanical strength	, F		
	T	A 2,5 A 250 V socket-outlets for CLASS II electronic		,	
		apparatus are tested as specified in 12.1.3 of EN 60065.	5	,5	
		Also the protecting rim shall be tested	L' 1	74	
	5	Justification: Act of 24 May 1929 relating to supervision of electrical installation (TEA 1929/FEL 1998).	Z 42	XF.	
	1611	<del>\(\text{\tin}\text{\tin\text{\tin}\}\\ \tittt{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\ti}\tint{\text{\text{\text{\text{\text{\text{\text{\text{\text{\ti}\xi}}\\ \tittt{\text{\text{\text{\text{\text{\text{\text{\texi}}\\ \tittt{\text{\ti}\tittt{\text{\text{\text{\text{\text{\text{\ti}\}\tittt{\text{\texi}\tittt{\text{\texi}\tittt{\texi}</del>		27/4	
	15.1.1	UK: Apparatus which is fitted with a flexible cable or cord and is designed to be connected to a mains socket		N/A	
1		conforming to BS 1363 by means of that flexible cable			R
7		or cord and plug shall be fitted with a "standard plug" in		/	
	/-	accordance with Statutory Instrument 1768: 1994: The		S	
	47	Plugs and Sockets etc. (Safety) Regulations 1994, unless exempted by those Regulations.		/	1
5		NOTE "Standard plug" is defined in SI 1768:1994 and		,<	0
	FIL	essentially means an approved plug conforming to BS			
	R	1363 or an approved conversion plug.	The The	Fr.	
	~	Justification: SI 1768: 1994	F	F	
	J.2	NO: After Table J.1 the following is added:	~	N/A	
	4	In Norway, due to the IT power distribution system	á		
1	5	used, the a.c. MAINS supply voltage is considered to be	4	4	1
K		equal to the line-to-line voltage, and will remain 230 V in case of a single earth fault.	ST	5	2
	4	Justification: Based on a use in Norway of an IT power	Z. Z. ?	× ×	
	, B	distribution system where the neutral is not provided.	The The	T.B.	
	1/4	7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	. 1		i

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ZC	ANNEX ZC TO EN 60065, A-DEVIATIONS (EN)	V. K	N/A
5.1	IT: Additional markings on the outside of the TV receiver in Italian language	\$	N/A
9	IT:User instructions in Italian language including a conformity declaration		N/A
7	IT: Certification number on the back cover	ZY ZY ZY	N/A
6.1	DE: The following requirement applies:  For the operation of any cathode ray tube intended for the display of visual images operating at an acceleration voltage exceeding 40 kV, authorization is	,	N/A
HIN THE STATE OF T	required, or application of type approval (Bauartzulassung) and marking.  Justification: German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM.	S LA LANDER OF THE STATE OF THE	AN A
	NOTE Contact address:		
20	Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-38116 Braunschweig, Tel.: Int+49-531-592-6320, Internet: http://www.ptb.de		8
14 INNE	SE: 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)	The Paris	N/A

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5.1	TABLE:	Input test	V-		X	V			P	
		onsumption in the ional switch (W)	OFF/Stand-		f				_	
Cond.	Un (V)	Freq. (Hz)	In (A)	Pn (W)	Uout(V)	Pout (W)	Operatir	ng conc	litions	
	264	50	0.19	20.6	-78	<	Noı	rmal op	peration	
7.1	TABL	E: temperature ri	se measuren	nents	F	74	/	T	P	
Loudspeaker impedance ( $\Omega$ ) :			7	~	18 1			_		
Several loudspeaker systems :				_	/		5			
43	Marking of loudspeaker terminals			7	40	51	1	(V)		
Monitore	ed point:					dT (K)		Lin	nit dT (K)	
Test volt	age				198V/60H	z 264V	7/50Hz			
Switch b	ody				5.3	5	5.7		50	
Knob bo	dy				2.7	3	3.1		50	
Inlet nea	r Line				7.2	7	7.6		35	
Internal	input wires				10.8	1	11.3		70	
Metallic	enclosure near	SPS			7.6	8	8.4		40	
РСВ					18.5	19	19.5		85	
Relay bo	ody				7.3	8	8.0		Ref.	
Ambient					25.1 ℃	25.	3 ℃			
	Winding	temperature rise r	neasuremen	ts	4	24	ć	<	24	
53	Ambient	temperature t1 $^{\circ}$ C	)	: 🏅	V - 3	<u> </u>		_	-	
Ambient temperature t2 °C):				- FIR	-18	_	3	_		
Temperature rise dT of winding: $dT = (R2 - R1) \times (234.5 + t1) - (t2 - t1)$ R1			$R_1(\Omega)$	$R_2(\Omega)$	dT (K	/	nit dT K)	Insulation class		
	43	7	43	5-	5-	,0	4	&		
Note(s):		4 5		La Company of the Com	Th.	1	4	ZY		
-			- 7		V-	1	. V	-		

7.2 TABLE: softening temperature of thermoplastics								
Temperature	T of part	T - normal con-di	tions (°C)	T - fault condi-tio	ns (°C)	Min T softer (°C)	ning	
4	- 7 <u>L</u>	~	77,	Z	77,	4	7	

10.3	TABLE: insulation resistance measurements	IR	Ž.	P P
Insulation re	sistance R between:		R (MΩ)	Required R (MΩ)

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Different poles of mains (primary fuse disconnected)	A.	> 200	Min. 2
Live parts of mains and metallic enclosure	73	> 200	Min. 2
Live parts of mains and accessible secondary termina	als	> 200	Min.4
Primary and secondary windings	,5	> 200	Min.4
Primary windings and core	7 3	> 200	Min. 2
Core and secondary windings	THE THE	> 200	Min. 2

10.3	TABLE: electric strength measurements		ys P
Test voltage	applied between:	Test voltage (V)	Breakdown
Different pol	es of mains (primary fuse disconnected)	2120	No
Live parts of	mains and metallic enclosure	2120	No
Live parts of	mains and accessible secondary terminals	4240	No
Primary and	secondary windings	4240	No
Primary wind	dings and core	2120	No
Core and sec	ondary windings	2120	No
Two layers o	f insulation tape	4240	No No

11.2	TABLE: summary of fault condition tests				P 🙏
	Voltage (V) 0,9 or 1,1 times rated vo	oltage:	264		_
(5)	Ambient temperature (°C)	<u> </u>	25.0	4	
Monitore Under far	nd point: ult conditions specified below	dT (K)			Limit dT(K)
Output te	erminal, overload, 4 h; Un(V)= 198	Result: the unit protected, No hazard.			Α
Output te	erminal, overload, 4 h; Un(V)= 264	Result: the unit	Result: the unit protected, No hazard.		
Output te	erminal, open circuit, Un(V)=198	Result: the unit protected, No hazard.			
Output te	erminal, short circuit, Un(V)=264	Result: the unit	3		
Note(s):	- JF JF 3	Sy The	Z,	7/1/	- Fly

13	TABLES: clearances and creepage distances							P
Location	Location		Operating Voltage		Clearance (mm)		Creepage (mm)	
		V peak	V rms	Min	Actual	Min	Actual	
Different pole	Different poles of fuse (B)		240	2.0	3.0	2.5	3.0	3
Different pole	Different poles of switch (B)		240	2.0	3.0	2.5	3.0	7/
Hazard live pa	arts to secondary parts	340	240	4.0	>10	5.0 <	>10	
Hazard live pa metallic enclo	arts to accessibility osure (B)	340	240	2.0	>2.5	2.5	>2.5	4

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Notes: "Min" = minimum required. "Actual " = Actual dimensions measured.

					_
14	TABLE: list of critical	components and	d materials		P
Component	Manufacturer/ trademark	Type / Model	Technical Data	Standard	Approval /Reference
Appliance inlet	DongGuan NarKen Industry Investment Co.,Ltd.	XD-102	10A, 250Vac	IEC/EN60320-1	VDE
Fuse	Sun Electric Co. O/B Heroday Ltd.	5H	F2AL250V	IEC60127-1 IEC 60127-3	VDE
Power switch	ZHEJIANG ZHONGXUN ELECTRONICS CO LTD	KCD1-106	10(6)A, 250Vac, T105/55	IEC/EN6105 8-1	VDE
Internal input wires including earth wire	ZHONG SHAN YONG ROI ELECTRIC FACTORY CO LTD	1672	300V, 16AWG, VW-1, 105°C	UL758	UL E204893
Switching power supply	TDK-Lambda Corp. Nagaoka Technical Center	CUS250LD- 24	Input:100-240VAC 2.8A 50/60Hz Output: 24Vdc10.5A	- NA HA	TUV AN 50232913
Relay	NINGBO HUIKE NEW ERA ELECTRICAL APPLIANCES CO., LTD.	HK4100F- DC5V-S HC	3A 250VAC 3A 30VDC	EN 61810-1	TUV R 50222414
Metal enclosure	£ 22	HA	Min. 1.0 mm	- 4	- 37
PCB	Various	Various	Min. V-0, 130°C	UL796	UL

Supplementary information:

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<sup>1)</sup> Provided evidence ensures the agreed level of compliance. See OD-CB2039.



#### **ANNEX A- EUT PHOTOGRAPHS**





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\*\*\*\*\*END OF THE REPORT\*\*\*\*

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