



Test Report issued under the responsibility of:



TEST REPORT

IEC 62368-1

Audio/video, information and communication technology equipment

Part 1: Safety requirements

Report Number : CN236ZY8 002

Date of issue : 2023-10-10

Total number of pages : 10

Name of Testing Laboratory preparing the Report : TÜV Rheinland (Shenzhen) Co., Ltd.

Applicant's name : Guangzhou Shirui Electronics Co., Ltd.

Address : 192 Kezhu Road, Science Park, Guangzhou Economic & Technology, Development District, Guangzhou, 510663 Guangdong, P.R. China

Test specification:

Standard : IEC 62368-1:2014

Test procedure : CB Scheme

Non-standard test method : N/A

TRF template used : IECEE OD-2020-F1:2021, Ed.1.4

Test Report Form No. : IEC62368_1D

Test Report Form(s) Originator .. : UL(US)

Master TRF : Dated 2022-04-14

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This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.

General disclaimer:

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 CB Testing Laboratory. The authenticity of this Test Report and its contents can be verified by contacting the NCB, responsible for this Test Report.

Test Item description	LCD MONITOR	
Trade Mark(s)	SHARP	
Manufacturer	Sharp NEC Display Solutions, Ltd. 4-28, Mita 1-chome, Minato-ku, Tokyo, 108-0073 Japan	
Model/Type reference	PN-ME432	
Ratings	Input: 100-240V~, 50/60Hz, 2.2-0.9 A (2.5A for MEXICO)	
Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):		
☒	CB Testing Laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.
Testing location/ address	1601-1604, 17-18F, Tower A Building 2, Shenzhen International Innovation Valley, Dashi 1st Road, Xili Street, Xili Community, Nanshan District, Shenzhen 518052, China	
Tested by (name, function, signature)	Jace Chen (Project Handler)	<i>Jace chen</i>
Approved by (name, function, signature)	Jolene Zhao (Reviewer)	<i>Jolene zhao</i>
☐	Testing procedure: CTF Stage 1	N/A
Testing location/ address	N/A	
Tested by (name, function, signature)		
Approved by (name, function, signature)		
☐	Testing procedure: CTF Stage 2	N/A
Testing location/ address	N/A	
Tested by (name, function, signature)		
Witnessed by (name, function, signature)		
Approved by (name, function, signature)		
☐	Testing procedure: CTF Stage 3	N/A
☐	Testing procedure: CTF Stage 4	N/A
Testing location/ address	N/A	
Tested by (name, function, signature)		
Witnessed by (name, function, signature)		
Approved by (name, function, signature)		
Supervised by (name, function, signature)		

List of Attachments (including a total number of pages in each attachment): See previous report CN236ZY8 001.	
Summary of testing:	
Tests performed (name of test and test clause): N/A	Testing location: N/A
Summary of compliance with National Differences: See previous report CN236ZY8 001.	
Use of uncertainty of measurement for decisions on conformity (decision rule) : ☒ No decision rule is specified by the IEC standard, when comparing the measurement result with the applicable limit according to the specification in that standard. The decisions on conformity are made without applying the measurement uncertainty ("simple acceptance" decision rule, previously known as "accuracy method"). ☐ Other:... (to be specified, for example when required by the standard or client, or if national accreditation requirements apply) Information on uncertainty of measurement: The uncertainties of measurement are calculated by the laboratory based on application of criteria given by OD-5014 for test equipment and application of test methods, decision sheets and operational procedures of IECEE. IEC Guide 115 provides guidance on the application of measurement uncertainty principles and applying the decision rule when reporting test results within IECEE scheme, noting that the reporting of the measurement uncertainty for measurements is not necessary unless required by the test standard or customer. Calculations leading to the reported values are on file with the NCB and testing laboratory that conducted the testing.	

Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

SHARP MultiSync ME432

VOLTS Вольт 输入电压 輸入電壓: 100-240V~
AMPERES Ампер 电流 電流: 2.2-0.9A (2.5A FOR MEXICO)
FREQUENCY Частота 工作频率 工作頻率: 50/60Hz

CAUTION: TO PREVENT ELECTRIC SHOCK, DO NOT REMOVE THE ENCLOSURE.
 NO USER-SERVICEABLE PARTS INSIDE.

ATTENTION: AFIN DE PREVENIR DE TOUT CHOC ELECTRIQUES, NE PAS OUVRIR CE BOITIER.
 AUCUNE PIECE INTERNE NE PEUT-ETRE CHANGEES PAR L'UTILISATEUR.

ACHTUNG: ZUR TRENNUNG VOM NETZ IST DER NETZSTECKER AUS DER STECKDOSE ZU ZIEHEN.
 GERÄT NICHT ÖFFNEN. ES SIND KEINE DURCH DEN BENUTZER AUSWECHSELBAREN TEILE IM GERÄT VORHANDEN.

PRECAUCIÓN: PARA PREVENIR DESCARGA ELÉCTRICA, NO QUITE EL RECINTO.
 NINGUNAS PIEZAS DEL USUARIO SERVICABLE ADENTRO.

VAROITUS: LAITE ON LIITETTÄVÄ SUOJAKOSKETTIMILLA VARUSTETTUUN PISTORASIAAN.

VARNING: APPARATEN SKALL ANSLUTAS TILL JORDAT UTGÅG.

ADVARSEL: APPARATET MÅ TILKOPLES JORDET STIKKONTAKT.

ADVARSEL: APPARATETS STIKPROP SKAL TILSLUTTES EN STIKKONTAKT
 MED JORD SOM GIVER FORBINDELSE TIL STIKPROPPENS JORD.

⚠️ 注意: 请勿打开后盖, 小心高压电击, 机内并无用户配件。
 ⚠️ 注意: 請勿打開後蓋, 小心高壓電擊, 機內並無用戶配件。
 ⚠️ 警語: 使用過度恐傷害視力。

사용상 주의사항 감전의 위험 및 제품의 손상이 발생할 수 있으므로 제품의 커버를 열지 마십시오.
 인증 서비스 센터 전화 번호: 080-022-1155 (호성ITX주식회사)
 *본 라벨과 전화번호는 국내 규정 내에서 적절한 목적으로만 사용되어야 합니다.

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES.
 OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:
 (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND
 (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED,
 INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRE OPERATION.

CAN ICES-003(B) / NMB-003(B)

تنبيه
 تجنب فتح الغطاء العلوي للجهاز منعا للتعرض لصدمة كهربائية.
 لا يحتوي الجهاز على أجزاء داخلية قابلة للصيانة من قبل المستخدم.

LCD MONITOR
ЖК-монитор
 液晶显示器 彩色显示器
 모니터 (43 인치 LCD 모니터)
(MODEL / Модель / 型号 / 型號 / 모델명: PN-ME432)

FOR JAPAN ONLY

⚠️ 警告 ⚡

高圧注意
 サービスマン以外の方は分解しないでください。内部には高圧電圧部分があり、万一触ると危険です。

感電注意
 電源コードのアースリード線は必ず接地ください。故障のときに感電の原因になります。

定格電圧: 100V-240V~
 定格電流: 2.2-0.9A
 定格周波数: 50/60Hz

PS E TÜV Rheinland

VCCI G

10

CCC

RoHS

EAC

SAFETY MARK

XXXXXX-XX

IP30

HDMI **CE** **UK** **CA**

cd **Hg** **c** **UL** **US** **E494471** **I.T.E.** **JRZN** **LISTED**

TÜV Rheinland **ZERTIFIZIERT** **www.tuv.com** **ID: 0235004681**

TÜV Rheinland **CERTIFICADO** **www.tuv.com** **ID: 0000100000**

Landscaping **Mounting Interface**
 200mm x 200mm
 4-M6 Depth 14mm Max

Portrait

中国製造 中國製造
MADE IN CHINA FABRIQUE EN CHINE
FABRICADO EN CHINA Сделано в Китае

Brand contact:
 Sharp NEC Display Solutions, Ltd.
 シャープNECディスプレイソリューションズ株式会社
 東京都港区三田一丁目4番28号
 日本国東京都港区三田一丁目4番28号
 4-28, Mita 1-chome, Minato-ku, Tokyo, Japan
Contact address for EMEA
 Sharp NEC Display Solutions Europe GmbH
 Landshuter Allee 12-14, 80637 Munich, Germany
Contact address for UK
 Sharp Electronics (Europe) Limited
 4 Furzeground Way, Stockley Park, Uxbridge, Middlesex, UB11 1EZ, United Kingdom
 生産廠: 浙江久融智能技術有限公司 生产厂: 浙江久融智能技術有限公司
 生产地址: 浙江省杭州市钱塘新区白杨街道8号大街2号1幢101室
 제조: Zhejiang Jiurong Intelligent Technology Co., Ltd.

SHARP MultiSync ME432

VOLTS Вольт 輸入電圧 輸入電壓: 100-240V~
 AMPERES Ампер 電流 電流: 2.2-0.9A (2.5A FOR MEXICO)
 FREQUENCY Частота 工作頻率 工作頻率: 50/60Hz

LCD MONITOR
ЖК-МОНИТОР
 液晶显示器 彩色显示器
 모니터 (43 인치 LCD 모니터)
 (MODEL / Модель / 型号 / 型號 / 모델명: PN-ME432)



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△ 警語: 使用過度恐傷害視力。

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인증 서비스 센터 전화 번호: 080-022-1155 (효성ITX주식회사)

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CAN ICES-003(B) / NMB-003(B)

تنبيه

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 لا يحتوي الجهاز على أجزاء داخلية قابلة للصيانة من قبل المستخدم.

HDMI®

CE

UKCA



us E494471
 I.T.E.
 DBH



??????-??

IP30

Brand contact:

Sharp NEC Display Solutions, Ltd.

シャープNECディスプレイソリューションズ株式会社

東京都港区三田一丁目4番28号

日本国東京都港区三田一丁目4番28号

4-28, Mita 1-chome, Minato-ku, Tokyo, Japan

Contact address for EMEA

Sharp NEC Display Solutions Europe GmbH

Landshuter Allee 12-14, 80637 Munich, Germany

Contact address for UK

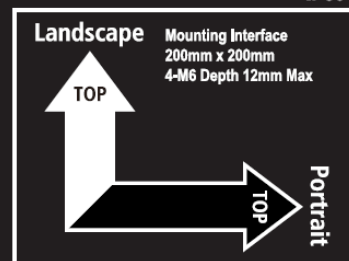
Sharp Electronics (Europe) Limited

4 Furzeground Way, Stockley Park, Uxbridge, Middlesex, UB11 1EZ, United Kingdom

生産廠: 玳能科技(杭州)有限公司 生产厂: 玳能科技(杭州)有限公司

生产地址: 浙江杭州经济技术开发区综合保税区东门3号2幢2楼

제조: Dynabook Technology (Hangzhou) Inc.



中国制造 中國製造

MADE IN CHINA FABRIQUE EN CHINE
 FABRICADO EN CHINA Сделано в Китае

TEST ITEM PARTICULARS:	
Classification of use by..... :	☒ Ordinary person ☐ Instructed person ☐ Skilled person ☒ Children likely to be present
Supply Connection	☒ AC Mains ☐ DC Mains ☐ External Circuit - not Mains connected - ☐ ES1 ☐ ES2 ☐ ES3
Supply % Tolerance	☒ +10%/-10% ☐ +20%/-15% ☐ + ____ %/ - ____ % ☐ None
Supply Connection – Type	☒ pluggable equipment type A - ☐ non-detachable supply cord ☒ appliance coupler ☐ direct plug-in ☐ mating connector ☐ pluggable equipment type B - ☐ non-detachable supply cord ☐ appliance coupler ☐ permanent connection ☐ mating connector ☐ other:
Considered current rating of protective device as part of building or equipment installation	16 A (20A for US and CA, 13A for UK); Installation location: ☒ building; ☐ equipment
Equipment mobility	☒ movable (when base stand used) ☐ hand-held ☐ transportable ☒ stationary (when mounting means used) ☐ for building-in ☐ direct plug-in ☐ rack-mounting ☒ wall-mounted
Over voltage category (OVC)	☐ OVC I ☒ OVC II ☐ OVC III ☐ OVC IV ☐ other: _____
Class of equipment	☒ Class I ☐ Class II ☐ Class III ☐ Class II with functional earthing ☐ Not classified
Access location	☐ restricted access location ☒ N/A
Pollution degree (PD)	☐ PD 1 ☒ PD 2 ☐ PD 3
Manufacturer's specified maximum operating ambient.....	40°C
IP protection class	☐ IPX0 ☒ IP_30__
Power Systems	☒ TN ☐ TT ☐ IT - ____ V L-L; ☐ dc mains ☐ N/A
Altitude during operation (m)	☐ 2000 m or less ☒ Up to 5000 m
Altitude of test laboratory (m)	☒ 2000 m or less ☐ ____ m
Mass of equipment (kg)	☒ Weight: 10.1 kg (Unit only); Base weight 1.9 kg.

Possible test case verdicts:	
- test case does not apply to the test object	N/A
- test object does meet the requirement	P (Pass)
- test object does not meet the requirement	F (Fail)
Testing	
Date of receipt of test item	2023-10-09
Date (s) of performance of tests	N/A
General remarks:	
"(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report. Throughout this report a ☐ comma / ☒ point is used as the decimal separator.	
Manufacturer's Declaration per sub-clause 4.2.5 of IECEE 02:	
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided	☒ Yes ☐ Not applicable
When differences exist; they shall be identified in the General product information section.	
Name and address of factory (ies)	Dynabook Technology (Hangzhou) Inc 2/F, Building2, NO.3, East Gate, Comprehensive bonded Zone, Hangzhou Economic and Technical Development Zone, 310018 Zhejiang, P.R. China Zhejiang Jiurong Intelligent Technology Co., Ltd. Room 101, Building 1, No. 2, 8th Street, Baiyang Street, Qiantang New District, Hangzhou City, Zhejiang, P.R. China K-tronics (Suzhou) Technology Co., Ltd. No.1088, Dajing Road, Economic and Technological Development Zone, Wujiang District, Suzhou, 215200 Jiangsu, P.R. China Guangzhou Shiyuan Ruichuang Electronic Technology Co., Ltd. 1F, 2F, 4F, Building B, No. 13, Zhishan Road, Huangpu District, Guangzhou, Guangdong, P.R. China Guangzhou Shiyuan Ruichuang Electronic Technology Co., Ltd. Building 69, Fenglang 1th Road, Huangpu District, Guangzhou, Guangdong, P.R. China
General product information and other remarks:	
For general product information, see original CB report CN236ZY8 001 for detail. This report is based on previous report CN236ZY8 001 for below change:	

Description of change(s):

The rated current is changed from 1.6-0.7 A (2.5A for MEXICO) to **2.2-0.9 A** (2.5A for MEXICO), and updated label.

For the above described change, there is no test was considered to be necessary.

History of amendments and modifications:

1. Ref. No. CN236ZY8 001, dated 2023-09-04 (original report)
2. Ref. No. CN236ZY8 002, dated 2023-10-10 (1st modification)

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict

B.2.5		TABLE: Input test							P
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status	
90	50	1.710	--	153.1	--	F1	1.710	HDMI mode: USB2.0=5Vdc, 0.5A*1 USB3.0=5Vdc, 0.9A*2 Main Type-C terminal=5Vdc, 3.0A*1 1kHz sine wave signal input, 1/8 maximum non-clipped, three vertical bar, maximum brightness, contrast.	
90	60	1.708	--	152.8	--	F1	1.708		
100	50	1.528	2.2	150.8	--	F1	1.528		
100	60	1.524	2.2	150.6	--	F1	1.524		
240	50	0.635	0.9	147.2	--	F1	0.635		
240	60	0.631	0.9	147.0	--	F1	0.631		
264	50	0.589	--	146.5	--	F1	0.589		
264	60	0.586	--	146.2	--	F1	0.586		
90	50	1.681	--	150.3	--	F1	1.681	USB2.0 Mode: USB2.0=5Vdc, 0.5A*1 USB3.0=5Vdc, 0.9A*2 Main Type-C terminal=5Vdc, 3.0A*1 1kHz sine wave signal input, 1/8 maximum non-clipped, three vertical bar, maximum brightness, contrast.	
90	60	1.679	--	150.1	--	F1	1.679		
100	50	1.500	2.2	148.0	--	F1	1.500		
100	60	1.497	2.2	147.8	--	F1	1.497		
240	50	0.623	0.9	144.4	--	F1	0.623		
240	60	0.621	0.9	144.2	--	F1	0.621		
264	50	0.578	--	143.7	--	F1	0.578		
264	60	0.575	--	143.4	--	F1	0.575		
90	50	1.659	--	148.3	--	F1	1.659	Main USB3.0: USB2.0=5Vdc, 0.5A*1 USB3.0=5Vdc, 0.9A*2 Main Type-C terminal=5Vdc, 3.0A*1 1kHz sine wave signal input, 1/8 maximum non-clipped, three vertical bar, maximum brightness, contrast.	
90	60	1.656	--	148.0	--	F1	1.656		
100	50	1.481	2.2	146.0	--	F1	1.481		
100	60	1.478	2.2	145.8	--	F1	1.478		
240	50	0.615	0.9	142.6	--	F1	0.615		
240	60	0.613	0.9	142.3	--	F1	0.613		
264	50	0.571	--	141.9	--	F1	0.571		
264	60	0.569	--	141.7	--	F1	0.569		
90	50	1.698	--	151.9	--	F1	1.698	Android mode: USB2.0=5Vdc, 0.5A*1 USB3.0=5Vdc, 0.9A*2 Main Type-C terminal=5Vdc, 3.0A*1 1kHz sine wave signal	
90	60	1.695	--	151.6	--	F1	1.695		
100	50	1.516	2.2	149.6	--	F1	1.516		
100	60	1.514	2.2	149.4	--	F1	1.514		
240	50	0.629	0.9	146.0	--	F1	0.629		

IEC 62368-1									
Clause		Requirement + Test				Result - Remark		Verdict	
240	60	0.626	0.9	145.8	--	F1	0.626	input, 1/8 maximum non-clipped, three vertical bar, maximum brightness, contrast.	
264	50	0.583	--	145.3	--	F1	0.583		
264	60	0.581	--	145.1	--	F1	0.581		
90	50	1.689	--	150.9	--	F1	1.689	LAN mode: USB2.0=5Vdc, 0.5A*1 USB3.0=5Vdc, 0.9A*2 Main Type-C terminal=5Vdc, 3.0A*1 1kHz sine wave signal input, 1/8 maximum non-clipped, three vertical bar, maximum brightness, contrast.	
90	60	1.687	--	150.5	--	F1	1.687		
100	50	1.507	2.2	148.6	--	F1	1.507		
100	60	1.504	2.2	148.4	--	F1	1.504		
240	50	0.618	0.9	145.1	--	F1	0.618		
240	60	0.616	0.9	144.7	--	F1	0.616		
264	50	0.573	--	144.2	--	F1	0.573		
264	60	0.570	--	144.0	--	F1	0.570		
Supplementary information:									
The measured input current at rated voltage shall be less than or equal to 110 % of rated current. Audio signal voltage: for maximum non-clipped output power was 5.93 V, for 1/8 maximum non-clipped output power was 2.10 V.									