



TM

Ref. Certif. No.

JPTUV-117525-M1

**IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT
(IECEE) CB SCHEME****CB TEST CERTIFICATE**

Product

LCD Monitor

Name and address of the applicant

Top Victory Electronics (Taiwan) Co., Ltd.
10F., No. 230, Liancheng Rd.
Zhonghe Dist., New Taipei City, 23553 Taiwan

Name and address of the manufacturer

Sharp NEC Display Solutions, Ltd.
4-28, Mita 1-chome, Minato-ku
Tokyo, 108-0073 Japan

Name and address of the factory

See additional page(s)

Ratings and principal characteristics

AC 100-240V; 50/60Hz; 1) 2.9-1.2A, 2) 2.6-1.1A; Class I

Trademark (if any)

NEC

Customer's Testing Facility (CTF) Stage used

N/A

Model / Type Ref.

1) P435, 2) MA431

Additional information (if necessary may
also be reported on page 2)For model differences, refer to the test report.
Re-issue of JPTUV-117525 dated 2020-12-15,
due to first modification.A sample of the product was tested and
found to be in conformity withIEC 60950-1:2005+A1+A2
See Test Report for National DifferencesAs shown in the Test Report Ref. No. which
forms part of this Certificate

CN20EL5B 002

This CB Test Certificate is issued by the National Certification Body

**TÜVRheinland®**TÜV Rheinland Japan Ltd.
Global Technology Assessment Center
4-25-2 Kita-Yamata, Tsuzuki-ku
Yokohama 224-0021, Japan
Phone + 81 45 914-3888
Fax + 81 45 914-3354
Mail: info@jpn.tuv.com
Web : www.tuv.com

Date: 2021-03-24

Signature:


Dipl.-Ing. (FH) A. Klinker

1. TPV Display Technology (Beihai)
Co., Ltd.
China Electronic Beihai Industry
Park, Northeast of the Crossing
Between Taiwan Road and Jilin Road, Beihai City, Guangxi, P.R. China
2. TPV Technology (Qingdao)
Co., Ltd.
No.99 Huoju Road, High-tech
Industrial Development Zone
Qingdao City, Shandong, P.R. China
3. Trend Smart CE Mexico S de RL de CV
Avenida Sor Juana Ines de la Cruz
de 19602 Nueva Tijuana,
22435 Tijuana Baja California
MEXICO
4. TPV Display Technology (China) Co., Ltd.
No. 106 Jinghai 3 Rd.,
BDA
100176 Beijing
P.R. China
5. Envision Indústria de Produtos
Eletrônicos Ltda.
Av. Torquato Tapajós, 2236,
Flores - CEP 69058-830 - Manaus/AM
Brazil
6. Pro Concept Manufacturer Co., Ltd
88/1 Moo 12, Soi
Phetkasem 120, Phetkasem
Road, Omnoi, Krathumbaen,
Samutsakhon 74130, Thailand
7. GeneTouch Corp.
No. 9 Neixi Rd.,
Luzhu Dist., Taoyuan City 33852
Taiwan

Additional information (if necessary)

Report Ref. No. : CN20EL5B 002

Date: 2021-03-24

Signature:


Dipl.-Ing. (FH) A. Klinker

8. TPV Electronics (Fujian) Co., Ltd.
Optoelectronic Park,
Rongqiao Economic and
Technological Development Zone,
Fuqing City, 350301 Fujian, P.R. China
9. TPV Technology (Thailand) Co., Ltd.
No.267 Mu7,
Tha Tum Sub- District,
Si Maha Pho District,
Prachin Buri Province, Thailand
10. Treeview Co., Ltd.
106/29 Moo 8, Sukhumvit Road,
T.Banglamung, A.Banglamung,
Chonburi 20150
Thailand
11. TPV Display Technology (Wuhan)
Co., Ltd.
Unique No. 11, Zhuankou Development
District of Economic Technological
Development Zone, 430056 Wuhan City, P.R. China
12. TPV Electronics (Fujian) Co., Ltd.
Shangzheng, Yuan Hong Road
Fuqing City
Fujian
P.R. China
13. L&T Display Technology (Fujian) Ltd.
Optoelectronic Park, Rongqiao
Economic and Technological
Development Zone
Fuqing, 350301 Fujian, P.R. China
14. TPV Electronics (Fujian) Co., Ltd.
Rongqiao Economic and
Technological Development Zone
Fuqing City
Fujian, P.R. China

Additional information (if necessary)

Report Ref. No. : CN20EL5B 002

Date: 2021-03-24

Signature:


Dipl.-Ing. (FH) A. Klinker



Test Report issued under the responsibility of:



TEST REPORT IEC 60950-1 Information technology equipment – Safety – Part 1: General requirements	
Report Number..... :	CN20EL5B 002
Date of issue..... :	2021-03-22
Total number of pages..... :	10
Name of Testing Laboratory preparing the Report..... :	TÜV Rheinland Taiwan Ltd.
Applicant's name	Top Victory Electronics (Taiwan) Co., Ltd.
Address..... :	10F., No. 230, Liancheng Rd., Zhonghe Dist., New Taipei City, 23553 Taiwan
Test specification:	
Standard..... :	IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013
Test procedure..... :	CB Scheme
Non-standard test method..... :	N/A
Test Report Form No..... :	IEC60950_1G
Test Report Form(s) Originator ... :	SGS Fimko Ltd
Master TRF..... :	Dated 2019-07-02
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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..... :	NEC
Manufacturer..... :	Sharp NEC Display Solutions, Ltd. 4-28, Mita 1-chome, Minato-ku, Tokyo, 108-0073 Japan
Model/Type reference :	1) P435, 2) MA431
Ratings..... :	100-240V~, 50/60Hz, 1) 2.9-1.2A, 2) 2.6-1.1A

Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):		
☒	CB Testing Laboratory:	TÜV Rheinland Taiwan Ltd.
Testing location/ address		11F., No. 758, Sec. 4, Bade Road, TW-105 Taipei, Taiwan
Tested by (name, function, signature)		Nai-Shiuan Yin Project handler
Approved by (name, function, signature)..:		Duck Lee Technical reviewer
☐	Testing procedure: CTF Stage 1:	
Testing location/ address		
Tested by (name, function, signature)		
Approved by (name, function, signature)..:		
☐	Testing procedure: CTF Stage 2:	
Testing location/ address		
Tested by (name + signature)		
Witnessed by (name, function, signature)..:		
Approved by (name, function, signature)..:		
☐	Testing procedure: CTF Stage 3:	
☐	Testing procedure: CTF Stage 4:	
Testing location/ address		
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): N/A	
Summary of testing:	
Tests performed (name of test and test clause): N/A	Testing location: N/A
Summary of compliance with National Differences (List of countries addressed): See report number CN20EL5B 001	

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.

NEC MultiSync P435

LCD MONITOR
ЖК-монитор
液晶显示器 彩色显示器
모니터 (43인치 LCD 모니터)
(MODEL / Модель / 型号 / 型號 / 모델명: P435)

VOLTS Вольт 输入电压 輸入電壓: 100-240V~
AMPERES Ампер 电流 電流: 2.9-1.2A(3.2 A 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 UTTAG.

ADVASEL: APPARATET MÅ TILKOPLES JORDET STIKKONTAKT.

ADVASEL: APPARATETS STIKKPROP SKAL TILSLUTTES EN STIKKONTAKT
MED JORD SOM GIVER FORBINDELSE TIL STIKPROPPENS JORD.

⚠️注意: 請勿打開後蓋, 小心高壓電擊。機內並無用戶配件。
⚠️注意: 請勿打開後蓋, 小心高壓電擊。機內並無用戶配件。
⚠️警告: 使用過度恐傷害視力。

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

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.

CAN ICES-3(B) / NMB-3(B)
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 UNDESIRABLE OPERATION.

UL E135689
LISTED US I.T.E.
1K81

TÜV Rheinland
ZERTIFIZIERT
www.tuv.com
ID: 023504681

SAFETY MARK
210017-11

TÜV Rheinland
CERTIFICADO
www.tuv.com
ID: 020100092

CE **CCC** **EAC** **R33037** **RoHS** **ZU10322-20049** **R-R-TPF-P435** **FC** **VCCI** **WEEE**

10 **ENERGY STAR** **RECYCLED** **CD** **HDMI**

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

MADE IN CHINA Сделано в Китае
FABRIQUE EN CHINE 中國製造
FABRICADO EN CHINA 中國製造
生產廠: 福建捷聯電子有限公司
生產廠: 福建捷聯電子有限公司
生產地址: 福建省融僑經濟技術開發區光電園區
ИЗГОТОВИТЕЛЬ / 제조:
TPV Electronics (Fujian) Co., Ltd.

Q40G043N84213A

Portrait **Landscape**

TOP

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.

NEC

MultiSync MA431

LCD MONITOR

ЖК-МОНИТОР

液晶显示器 彩色显示器

모니터 (43인치 LCD 모니터)

(MODEL / Модель / 型号 / 型號 / 모델명: MA431)

VOLTS Вольт 输入电压 輸入電壓: 100-240V~

AMPERES Ампер 电流 電流: 2.6-1.1A (3.2 A 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 CHANGEE 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 UTTAG.

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.

⚠️警告: 使用過度恐傷害視力。

تنبيه

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

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.

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。内部には高電圧部分が
あり、万一さわると危険です。

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~
定格電流 : 2.6A
定格周波数 : 50/60Hz

PS
E

▶

TÜV Rheinland

IP30

CAN ICES-3(B) / NMB-3(B)

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.

UL

E135689

US I.T.E.

LISTED 1K81

TÜV Rheinland

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Sicherheit
Regelmäßige
Produktions-
überwachung

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SAFETY
MARK

210018-11

TÜV Rheinland

CERTIFICADO

www.tuv.com

ID: 0020100200

CE CCC EAC R33037 RoHS ZU10322-20048 R-R-TPF-MA431

FC VCCI

10ms 100ms 1000ms 10000ms 100000ms 1000000ms 10000000ms 100000000ms 1000000000ms 10000000000ms 100000000000ms 1000000000000ms 10000000000000ms 100000000000000ms 1000000000000000ms 10000000000000000ms 100000000000000000ms 1000000000000000000ms 10000000000000000000ms 100000000000000000000ms 1000000000000000000000ms 10000000000000000000000ms 100000000000000000000000ms 1000000000000000000000000ms 10000000000000000000000000ms 100000000000000000000000000ms 1000000000000000000000000000ms 10000000000000000000000000000ms 100000000000000000000000000000ms 1000000000000000000000000000000ms 10000000000000000000000000000000ms 100000000000000000000000000000000ms 1000000000000000000000000000000000ms 10000000000000000000000000000000000ms 100000000000000000000000000000000000ms 1000000000000000000000000000000000000ms 1000000000000000000000000000000000000ms 10000000000000000000000000000000000000ms 100000000000000000000000000000000000000ms 1000000000000000000000000000000000000000ms 100ms 1000ms 100ms 1000ms 100ms 1000ms 100ms 100ms 1000ms 1000ms 100ms 1000ms 1000ms 100ms 100ms 1000ms 100ms 100ms 1000ms 100ms

Test item particulars.....:	
Equipment mobility.....:	☐ movable ☐ hand-held ☐ transportable ☒ stationary ☒ for building-in (when installed within a wooden box which provided by the manufacture) ☐ direct plug-in
Connection to the mains.....:	☒ pluggable equipment ☒ type A ☐ type B ☐ permanent connection ☒ detachable power supply cord ☐ non-detachable power supply cord ☐ not directly connected to the mains
Operating condition.....:	☒ continuous ☐ rated operating / resting time:
Access location	☒ operator accessible ☐ restricted access location
Over voltage category (OVC)	☐ OVC I ☒ OVC II ☐ OVC III ☐ OVC IV ☐ other: not directly connected to the mains
Mains supply tolerance (%) or absolute mains supply values	±10
Tested for IT power systems	☒ Yes ☐ No
IT testing, phase-phase voltage (V)	230 for Norway
Class of equipment	☒ Class I ☐ Class II ☐ Class III ☐ Not classified
Considered current rating of protective device as part of the building installation (A)	16 (20 for North America)
Pollution degree (PD)	☐ PD 1 ☒ PD 2 ☐ PD 3
IP protection class	IP20
Altitude during operation (m)	Up to 5000
Altitude of test laboratory (m)	Less than 2000
Mass of equipment (kg)	Max. 17.8kg (Unit only, without base stand, SDM card, compute module and external speaker) Max. 1.9kg (base stand) Max. 0.23kg (SDM card) Max. 0.1kg (compute module) Max. 0.86kg (External speaker: SP-TF1)
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..... : N/A	
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 IEC 60335-1:																		
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) : Same as report CN20EL5B 001																		
General product information: Description of change(s): 1. Change input rating.																		
For the above described change(s) the following was considered to be necessary:																		
Change	Testing	Comments																
1.	N/A	The new rated input rating are larger than original rated input rating, and the original input test results value are within new input rating limited value, no additional test is necessary. For new input rating see cover page. For new label refer to page 5, 6 and sub-clause 1.7.1 for marking details.																
<u>History of amendments and modifications:</u> Ref. No. CN20EL5B 001, dated 2020-12-09 (original test report) Ref. No. CN20EL5B 002, dated 2021-03-22 (modification)																		
Abbreviations used in the report: <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">- normal conditions</td> <td style="width: 33%;">N.C.</td> <td style="width: 33%;">- single fault conditions</td> <td style="width: 33%;">S.F.C</td> </tr> <tr> <td>- functional insulation</td> <td>OP</td> <td>- basic insulation</td> <td>BI</td> </tr> <tr> <td>- double insulation</td> <td>DI</td> <td>- supplementary insulation</td> <td>SI</td> </tr> <tr> <td>- between parts of opposite polarity</td> <td>BOP</td> <td>- reinforced insulation</td> <td>RI</td> </tr> </table>			- normal conditions	N.C.	- single fault conditions	S.F.C	- functional insulation	OP	- basic insulation	BI	- double insulation	DI	- supplementary insulation	SI	- between parts of opposite polarity	BOP	- reinforced insulation	RI
- normal conditions	N.C.	- single fault conditions	S.F.C															
- functional insulation	OP	- basic insulation	BI															
- double insulation	DI	- supplementary insulation	SI															
- between parts of opposite polarity	BOP	- reinforced insulation	RI															
Indicate used abbreviations (if any)																		

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

1.7	Marking and instructions		P
1.7.1	Power rating and identification markings	See below.	P
1.7.1.1	Power rating marking	See copy of marking plate.	P
	Multiple mains supply connections.....:		N/A
	Rated voltage(s) or voltage range(s) (V)	See copy of marking plate.	P
	Symbol for nature of supply, for d.c. only		N/A
	Rated frequency or rated frequency range (Hz) ..	See copy of marking plate.	P
	Rated current (mA or A)	See copy of marking plate.	P
1.7.1.2	Identification markings		P
	Manufacturer's name or trade-mark or identification mark	See copy of marking plate.	P
	Model identification or type reference	See copy of marking plate.	P
	Symbol for Class II equipment only	The equipment is Class I equipment.	N/A
	Other markings and symbols	Other markings and symbols do not give rise to misunderstanding.	P