

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

Date : 10.01.2020
Our ref. : AK SZ
Your ref.: 168146986

Ref : CB Certificate Japan

Type of Equipment : LCD Monitor
Model Designation : See Certificate
Certificate No. : JPTUV-087150-M2
Report No. : 50133683 003

Dear Mr. Kevin Hung,

Thank you very much for your interest in our services.

Please find enclosed your certification documents.

We appreciate your support and would like to offer our assistance in the approval of your future products through our extensive range of technical services.

Please feel free to contact us whatever your requirements may be.

With kind regards,

Certification Body

Aegean Li



Enclosure

证书的详细资料请登陆www.tuvdotcom.com查阅,或拨打我司客服热线800 999 3668 / 400 883 1300咨询



Ref. Certif. No.

JPTUV-087150-M2

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

SYSTEME CEI D'ACCEPTATION MUTUELLE DE
CERTIFICATS D'ESSAIS DES EQUIPEMENTS
ELECTRIQUES (IECEE) METHODE OC

CB TEST CERTIFICATE**CERTIFICAT D'ESSAI OC**

Product
Produit

LCD Monitor

Name and address of the applicant
Nom et adresse du demandeur

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

Name and address of the manufacturer
Nom et adresse du fabricant

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

Name and address of the factory
Nom et adresse de l'usine

See additional page(s)

Ratings and principal characteristics
Valeurs nominales et caractéristiques principales

100-240VAC; 50/60Hz; 1.60-0.75A (2.0A for MEXICO); Class I

Trademark (if any)
Marque de fabrique (si elle existe)

NEC

Type of Manufacturer's Testing Laboratories used
Type de programme du laboratoire d'essais constructeur

N/A

Model / Type Ref.
Ref. de type

EA271Q, EA271Q-BK, EA271U, EA271U-BK

Additional information (if necessary may also be
reported on page 2)
Les informations complémentaires (si nécessaire,
peuvent être indiqués sur la 2^{ème} page)

For model differences, refer to the test report.
Re-issue of JPTUV-087150-M1 dated 29.05.2018,
due to second modification.

A sample of the product was tested and found
to be in conformity with
Un échantillon de ce produit a été essayé et a été
considéré conforme à la

IEC 62368-1:2014
See Test Report for National Differences

As shown in the Test Report Ref. No. which forms part
of this Certificate
Comme indiqué dans le Rapport d'essais numéro de
référence qui constitue partie de ce Certificat

50133683 003

This CB Test Certificate is issued by the National Certification Body
Ce Certificat d'essai OC est établi par l'Organisme National de Certification



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

Aegean Li

Date: 10.01.2020

Signature:

1. TPV Display Technology (Wuhan) Co., Ltd.
Unique No. 11, Zhuankou Development District of Economic Technological Development Zone, Wuhan City 430056, P. R. China
2. TPV Electronics (Fujian) Co., Ltd.
Shangzheng, Yuan Hong Road
Fuqing City, Fujian Province
P. R. China
3. L&T Display Technology (Fujian) Ltd.
Optoelectronic Park, Rongqiao Economic and Technological Development Zone
Fuqing, Fujian 350301, P. R. China
4. TPV Electronics (Fujian) Co., Ltd.
Rongqiao Economic and Technological Development Zone
Fuqing City, Fujian Province
P. R. China
5. 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
6. 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
7. TPV Technology (Qingdao) Co., Ltd.
No.99 Huoju Road, High-tech Industrial Development Zone
Qingdao City, Shandong Province, P. R. China
8. TPV Display Technology (China) Co., Ltd.
No. 106 Jinghai 3 Rd., BDA
Beijing City 100176
P. R. China
9. TPV Electronics (Fujian) Co., Ltd.
Optoelectronic Park,
Rongqiao Economic and Technological Development Zone,
Fuqing City, Fujian Province 350301, P. R. China

Additional information (if necessary)
Information complémentaire (si nécessaire)

Report Ref. No.: 50133683 003

Date: 10.01.2020

Signature:



Aegean Li

10. Envision Indústria de Produtos Eletrônicos Ltda.
Av. Torquato Tapajós, 2236,
Flores - CEP 69058-830 - Manaus/AM
Brazil
11. Pro Concept Manufacturer Co., Ltd
88/1 Moo 12, Soi
Phetkasem120, Phetkasem
Road, Omnoi, Krathumbaen,
Samutsakhon 74130, Thailand
12. Treeview Co., Ltd.
106/29 Moo 8,
Sukhumvit Road, T.Banglamung,
A.Banglamung, Chonburi 20150
Thailand
13. TPV Technology (Thailand) Co., Ltd.
Tambon Tha Turn,
Amphoe Si Maha Phot,
Chang Wat Prachin Buri 25140
Thailand
14. TPV Technology (Thailand) Co., Ltd.
267 Moo 7,
Thatum Sub-District, Srimahaphot District,
Prachinburi Province
Thailand

Additional information (if necessary)
Information complémentaire (si nécessaire)

Report Ref. No.: 50133683 003

Date: 10.01.2020

Signature:



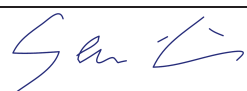
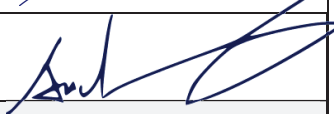
Aegean Li



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	50133683 003
Date of issue	10.Jan.2020
Total number of pages	8
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 62368-1:2014 (Second Edition)
Test procedure	CB Scheme
Non-standard test method.....	N/A
Test Report Form No.	IEC62368_1B
Test Report Form(s) Originator	UL(US)
Master TRF	2014-03
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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	NEC Display Solutions, Ltd. 4-28, Mita 1-chome, Minato-ku, Tokyo, 108-0073 Japan
Model/Type reference	EA271Q, EA271Q-BK, EA271U, EA271U-BK
Ratings	100-240V~, 50/60Hz, 1.60-0.75A (2.0A for Mexico)

Testing procedure and testing location:		
☒	CB Testing Laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.
Testing location/ address		1F East & 2-4F, Cybio Technology Building No. 1, No. 16 Kejibei 2nd Road, High-Tech Industrial Park North, Nanshan District 518057, Shenzhen, China
☐	Associated CB Testing Laboratory:	
Testing location/ address		
Tested by (name + signature)		Steven Lin Project Manager 
Approved by (name + signature)		Anderson Wang Technical Reviewer 
☐	Testing procedure: TMP/CTF Stage 1:	
Testing location/ address		
Tested by (name + signature)		
Approved by (name + signature)		
☐	Testing procedure: WMT/CTF Stage 2:	
Testing location/ address		
Tested by (name + signature)		
Witnessed by (name + signature)		
Approved by (name + signature)		
☐	Testing procedure: SMT/CTF Stage 3 or 4:	
Testing location/ address		
Tested by (name + signature)		
Witnessed by (name + signature)		
Approved by (name + signature)		
Supervised by (name + 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: <u>Summary of compliance with National Differences to IEC 62368-1:2014 (Second Edition) and EN 62368-1:2014+ A11: 2017 (for explanation of codes see below):</u> EU Group Differences, EU Special National Conditions, AU, CA, DE, DK, FI, IT, JP, NO, SE, US Explanation of used codes: AU=Australia, CA=Canada, DE=Germany, DK=Denmark, FI=Finland, IT=Italy, JP=Japan, NO=Norway, SE=Sweden, US=United States of America The product fulfils the requirements of <u>EN 62368-1:2014+ A11:2017</u> For National Differences see original report 50133683 001 for details.	
Copy of marking plate: See original report 50133683 003 for the details.	

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, 13 A (GB) or 20 A (US and Canada) (For building) Installation location: ☒ building; ☒ equipment (4A for Equipment)
Equipment mobility.....:	☒ movable ☐ hand-held ☐ transportable ☐ stationary ☐ 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
Access location	☐ restricted access location ☒ N/A
Pollution degree (PD)	☐ PD 1 ☒ PD 2 ☐ PD 3
Manufacturer's specified maximum operating ambient:	<u>40</u> °C
IP protection class	☒ IPX0 ☐ IP____
Power Systems	☒ TN ☐ TT ☒ IT - <u>230</u> V L-L
Altitude during operation (m)	☐ 2000 m or less ☒ <u>5000</u> m
Altitude of test laboratory (m)	☒ 2000 m or less ☐ _____ m
Mass of equipment (kg)	☒ Approx. 8.06kg (Unit with base stand); Base stand: 2.46 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)
- test object not yet conducted	N/T
TESTING:	
Date of receipt of test item	24.Dec.2019
Date (s) of performance of tests	27.Dec.2019
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).....:	1	TPV Display Technology (Wuhan) Co., Ltd. Unique No. 11, Zhuankou Development District of Economic Technological Development Zone, Wuhan City 430056, P.R. China
	2	TPV Electronics (Fujian) Co., Ltd. Shangzheng, Yuan Hong Road, Fuqing City, Fujian Province, P.R. China
	3	L&T Display Technology (Fujian) Ltd. Optoelectronic Park, Rongqiao Economic and Technological, Development Zone, Fuqing, Fujian 350301, P.R. China
	4	TPV Electronics (Fujian) Co., Ltd. Rongqiao Economic and Technological Development Zone, Fuqing City, Fujian Province, P.R. China
	5	Trend Smart CE Mexico S de RL de CV Avenida Sor Juana Ines de la Cruz de 19602 Nueva Tijuana, 22435 Tijuans Baja California, MEXICO
	6	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
	7	TPV Technology (Qingdao) Co., Ltd. No.99 Huoju Road, High-tech Industrial Development Zone, Qingdao City, Shandong Province, P.R. China
	8	TPV Display Technology (China) Co., Ltd. No.106 Jinghai 3 Rd., BDA, Beijing City 100176, P.R. China.
	9	TPV Electronics (Fujian) Co., Ltd. Optoelectronic Park, Rongqiao Economic and Technological Development Zone, Fuqing City, Fujian Province 350301, P.R. China
	10	Envision Indústria de Produtos Eletrônicos Ltda. Av. Torquato Tapajós, 2236, Flores - CEP 69058-830 - Manaus/AM Brazil
	11	Pro Concept Manufacturer Co., Ltd. 88/1 Moo 12 Soi Phetkasem 120, Phetkasem Road, Omnoi, Krathumbaen, Samutsakhon 74130 Thailand
	12	Treeview Co., Ltd. 106/29 Moo 8, Sukhumvit Road, T.Banglamung, A.Banglamung, Chonburi 20150 Thailand
	13	TPV Technology(Thailand) Co., Ltd. Tambon Tha Turn, AmphoeSi Maha Phot, Chang Wat Prachin Buri 25140 Thailand
	14	TPV Technology (Thailand) Co., Ltd. 267 Moo 7, Thatum Sub-District, Srimahaphot District, Prachinburi Province, Thailand

GENERAL PRODUCT INFORMATION:**Product Description –****Description of change(s):**

1. Add alternative panel MV270QU*-L**(* may be from 0 to 9. A-Z,a-z or blank,It can be made up by a maximum length of two numeric characters.)(BOE).
2. Update factory list by client's request.

For the above described change(s) the following was considered to be necessary :

Change	Testing	Comments
1.	N/A	See table 4.1.2 for the details. Due to the specified power consumption of new panel MV270QU*-L**(* may be from 0 to 9. A-Z,a-z or blank,It can be made up by a maximum length of two numeric characters.)(BOE) is 24.64W, therefore no further test necessary.
2.	N/A	See Page 6 for the details.

Other comments:

Declaration of the manufacturer: the sample(s) submitted for evaluation is (are) representative of the products from each factory.

History of amendments and modifications:

Ref. No. 50131497 001, dated 2018-04-11 (original test report)

Ref. No. 50131497 002, dated 2018-05-18 (modification)

Ref. No. 50131497 003, dated 2020-01-10 (modification)

Model Differences – Represent different enclosure color and sales regions for marketing purpose only, no technical difference.

Additional application considerations – N/A

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

4.1.2	TABLE: List of critical components					P
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹	
LCD Panel (only for EA271Q, EA271Q-BK)	Samsung Display	LTM270DLz (z may be from 0 to 9. It can be made up by a maximum length of two numeric characters.)	27 inch panel with LED backlight The declared power consumption is 26.74W and backlight input voltage is 56.1V in specification.	IEC 60950-1:2005 (Second Edition); Am1:2009 + Am2:2013	CB by TUV	
LCD Panel (only for EA271U, EA271U-BK)	LG Display	LM270WR3	27 inch panel with LED backlight The declared power consumption is 29.2W and backlight input voltage is 54.7V in specification.	IEC 60950-1:2005 (Second Edition); Am1:2009 + Am2:2013	CB by TUV	
LCD Panel (only for EA271U, EA271U-BK)	BOE	MV270QU*-L**(* may be from 0 to 9. A-Z,a-z or blank,It can be made up by a maximum length of two numeric characters.)	27 inch panel with LED backlight The declared power consumption is 24.64W and backlight input voltage is 58.9V in specification.	IEC 60950-1:2005 (Second Edition); Am1:2009 + Am2:2013	CB by TUV	

Supplementary information:

1) Provided evidence ensures the agreed level of compliance. See OD-CB2039.

2) In the technical data column of optocoupler, where "Dti" means distance through insulation, "Int. cr" means internal creepage distance, and "Ext. cr" means external creepage distance.