



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..... : CN212AAA 001

Date of issue : 29. Dec. 2021

Total number of pages..... : 66

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

Applicant's name : **TPV Electronics (Fujian) Co., Ltd.**

Address : Rongqiao Economic and Technological Development Zone,
Fuqing City, Fujian, P.R.China

Test specification:

Standard..... : IEC 62368-1:2018

Test procedure..... : CB Scheme

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

TRF template used..... : IECEE OD-2020-F1:2020, Ed.1.3

Test Report Form No. : IEC62368_1E

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

Master TRF : Dated 2021-02-04

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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.

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Test item description	LCD MONITOR(LED backlight)	
Trade Mark(s)	AOC	
Manufacturer	Same as applicant	
Model/Type reference	PD32M, PD32***** (* can be 0-9, A-Z, a-z, -, \, /, + or blank, represent different enclosure colour for marketing purpose)	
Ratings	I/P:19.5Vdc, 16.9A	
Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):		
<input checked="" type="checkbox"/>	TÜV Rheinland (Shenzhen) Co., Ltd.	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, Shenzhen 518052 Nanshan District, China	
Tested by (name, function, signature)	Mino Yu Project Handler	
Approved by (name, function, signature) ..	Steven Lin Technical Reviewer	
<input type="checkbox"/>	Testing procedure: CTF Stage 1:	
Testing location/ address		
Tested by (name, function, signature)		
Approved by (name, function, signature) ..		
<input type="checkbox"/>	Testing procedure: CTF Stage 2:	
Testing location/ address		
Tested by (name, function, signature)		
Witnessed by (name, function, signature) . :		
Approved by (name, function, signature) .. :		
<input type="checkbox"/>	Testing procedure: CTF Stage 3:	
<input type="checkbox"/>	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):

- Photo documentation (8 Pages)
- National Differences (30 Pages)
- Measurement Section (1 page)

Summary of testing:**Tests performed (name of test and test clause):**

The tests were carried out under the most unfavourable combination within the manufacturer's operating specifications of the following parameters:

- supply voltage 19.5Vdc
- operating temperature, Max. ambient temperature 35°C declared by the client
- operating mode: continuous

The critical tests were performed for this equipment included clauses:

name of test	test clause number
Classification of electrical energy sources	5.2
Maximum operating temperature test (Heating test)	5.4.1.4, 6.3.2, 9.0, B.2.6
Electrical Power Source (PS) measurements for classification	6.2.2
Top Openings in Fire Enclosure	6.4.8.3.3
Bottom Openings in Fire Enclosure	6.4.8.3.4
Stability test	8.6
Wall or ceiling mount loading test	8.7
Input test	Annex B.2.5
Simulated abnormal operating and single fault conditions	B.3, B.4
Test for permanence of markings	Annex F.3.10
Limited power source test (LPS)	Annex Q.1
Safeguards against entry of foreign object	Annex P.2.2
Adhesive test	Annex P.4
Steady force test, 30N , 250N	Annex T.3 , T.5
Enclosure impact test	Annex T.6
Stress relief test	Annex T.8

The EUT passed the test.

Testing location:

All tests as described in Test Case and Measurement Sections were performed at the laboratory described on page 2.

Summary of compliance with National Differences (List of countries addressed):

EU Group Differences, EU Special National Conditions, CA, DK, US

Explanation of used codes: CA=Canada, DK=Demark, US=United States of America

The product fulfils the requirements of EN IEC 62368-1:2020+ A11:2020 and BS EN IEC 62368-1:2020+ A11:2020

For National Differences see corresponding Attachment.

Statement concerning the uncertainty of the measurement systems used for the tests

Internal procedure used for type testing through which traceability of the measuring uncertainty has been established:

Procedure number, issue date and title:

Calculations leading to the reported values are on file with the NCB and testing laboratory that conducted the testing.

Statement not required by the standard used for type 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.

AOC LCD MONITOR (LED backlight) / ЖК-монитор / Moniteur LCD (Rétroéclairage LED) / 液晶显示器 / 液晶顯示器 / 모니터

Model name/Наименование модели/Nombre del modelo/ Nom de modèle>Nama Model/機種名/모델명: PD32M

Model No./모델 No./Modelo/N° de modèle/ Nomor model/型号/型號: PD32M

Power Rating/Входная мощность/Potencia nominal/ Puissance évaluée/tegangan/額定電源/정격입력: 19.5V == 16.9A

Made in China/Fabricado en China/Fabriqué en Chine/ сделано в Китае/Dibuat di : China/中国制造/中國製造 /제조국:중국

AOC International Europe B.V. Amstelveen, 6th floor Prins Bernhardplein 200 1097 JB Amsterdam The Netherlands CAN ICES-003(B)/NMB-003(B)

Envision Peripherals, Inc. 490 N McCarthy Blvd, Suite #120 Milpitas, CA 95035 USA

WARNING/AVERTISSEMENT: Never remove covers unless qualified to do so. N'enlevez jamais les moins qualifié de le faire. تحذير: يجب أن يتم تزيين هذا الجهاز بحظر فك الغطاء إلا إذا كنت مؤهلاً للقيام بذلك.

HJ1BCP2BABA1DN Manufactured: 2021.10

Serial/No. : PKIMAJA000001

4 038986 119801

Note: All models' rating labels are in the same design except for type designation. Above labels are representing the other models.

Test item particulars:	
Product group	<input checked="" type="checkbox"/> end product <input type="checkbox"/> built-in component
Classification of use by	<input checked="" type="checkbox"/> Ordinary person <input checked="" type="checkbox"/> Children likely present <input type="checkbox"/> Instructed person <input type="checkbox"/> Skilled person
Supply connection	<input type="checkbox"/> AC mains <input type="checkbox"/> DC mains <input checked="" type="checkbox"/> not mains connected: <input checked="" type="checkbox"/> ES1 <input type="checkbox"/> ES2 <input type="checkbox"/> ES3
Supply tolerance	<input type="checkbox"/> +10%/-10% <input type="checkbox"/> +20%/-15% <input type="checkbox"/> + %/ - % <input checked="" type="checkbox"/> None
Supply connection – type	<input type="checkbox"/> pluggable equipment type A - <input type="checkbox"/> non-detachable supply cord <input type="checkbox"/> appliance coupler <input type="checkbox"/> direct plug-in <input type="checkbox"/> pluggable equipment type B - <input type="checkbox"/> non-detachable supply cord <input type="checkbox"/> appliance coupler <input type="checkbox"/> permanent connection <input type="checkbox"/> mating connector <input checked="" type="checkbox"/> other: <u>not directly connected to the mains</u>
Considered current rating of protective device	<input type="checkbox"/> A; Location: <input type="checkbox"/> building <input type="checkbox"/> equipment <input checked="" type="checkbox"/> N/A
Equipment mobility	<input checked="" type="checkbox"/> movable <input type="checkbox"/> hand-held <input type="checkbox"/> transportable <input type="checkbox"/> direct plug-in <input type="checkbox"/> stationary <input type="checkbox"/> for building-in <input checked="" type="checkbox"/> wall/ceiling-mounted <input type="checkbox"/> SRME/rack-mounted <input type="checkbox"/> other:
Overvoltage category (OVC)	<input type="checkbox"/> OVC I <input type="checkbox"/> OVC II <input type="checkbox"/> OVC III <input type="checkbox"/> OVC IV <input checked="" type="checkbox"/> other: <u>not directly connected to the mains</u>
Class of equipment	<input type="checkbox"/> Class I <input type="checkbox"/> Class II <input checked="" type="checkbox"/> Class III <input type="checkbox"/> Not classified <input type="checkbox"/>
Special installation location	<input checked="" type="checkbox"/> N/A <input type="checkbox"/> restricted access area <input type="checkbox"/> outdoor location <input type="checkbox"/>
Pollution degree (PD)	<input type="checkbox"/> PD 1 <input checked="" type="checkbox"/> PD 2 <input type="checkbox"/> PD 3
Manufacturer's specified T_{ma}	35 °C <input type="checkbox"/> Outdoor: minimum °C
IP protection class	<input checked="" type="checkbox"/> IPX0 <input type="checkbox"/> IP__
Power systems	<input type="checkbox"/> TN <input type="checkbox"/> TT <input type="checkbox"/> IT - V _{L-L} <input checked="" type="checkbox"/> not AC mains
Altitude during operation (m)	<input type="checkbox"/> 2000 m or less <input checked="" type="checkbox"/> 5000 m
Altitude of test laboratory (m)	<input checked="" type="checkbox"/> 2000 m or less <input type="checkbox"/> m
Mass of equipment (kg)	Total with base: 11.26kg Base: 3.24kg

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 : 12.Aug.2021	
Date (s) of performance of tests..... : 15.Oct.2021 to 23.Oct.2021	
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 <input type="checkbox"/> comma / <input checked="" type="checkbox"/> point is used as the decimal separator.	
Manufacturer's Declaration per sub-clause 4.2.5 of IEC62368-1:	
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..... :	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> Not applicable
When differences exist; they shall be identified in the General product information section.	
Name and address of factory (ies)	<ol style="list-style-type: none"> 1 TPV Display Technology (Wuhan) Co., Ltd Unique No.11 Zhuankou Development District of Economic Technological Development Zone , 430056 Wuhan City, P. R. China 2 TPV Electronics (Fujian) Co., Ltd. Shangzheng, Yuan Hong Road Fuqing City, Fujian, P.R.China 3 L&T Display Technology (Fujian) Ltd Optoelectronic Park, Rongqiao Economic and Technological Development Zone Fuqing, 350301 Fujian, P.R. China 4 TPV Electronics (Fujian) Co., Ltd. Rongqiao Economic and Technological Development Zone Fuqing City, Fujian, P.R.China 5 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 6 TPV Display Technology (China) Co., Ltd No.106 Jinghai 3 Rd., BDA, 100176 Beijing, P. R. China 7 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

- | | |
|----|--|
| 8 | TPV Technology(Qingdao) Co.,Ltd.
NO.99 Huoju Road, High-tech Industrial
Development Zone, Qingdao City, Shandong, P.
R. China |
| 9 | Envision Indústria de Produtos Eletrônicos Ltda.
Av. Torquato Tapajós, 2236, Flores - CEP
69058-830 - Manaus/AM Brasil |
| 10 | Pro Concept Manufacturer Co., Ltd.
88/1 Moo 12, Soi Phetkasem 120, Phetkasem
Road, Omnoi, Krathumbaen, Samutsakhon
74130, Thailand |
| 11 | TPV Technology (Thailand) Co., Ltd.
No.267 Mu7, Tha Tum Sub- District, Si Maha
Pho District,Prachin Buri Province, Thailand |
| 12 | TPV Electronics (Fujian) Co., Ltd.
Optoelectronic Park, Rongqiao Economic and
Technological Development Zone, Fuqing City,
350301, Fujian, P. R. China |
| 13 | GeneTouch Corp.

No. 9 Neixi Rd., Luzhu Dist., Taoyuan City,
33852 Taiwan |
| 14 | Dixon Technologies (India) Ltd.
EMC-2, Shed No. 2,4,5,6 & 7,
Near Tirupati Airport, Village Govindhavaram,
Munagalapalem Post, Revenue Vikruthamala,
Yerpedu Mandelam, District-Chittoor,
Andhra Pradesh, 517526, India |
| 15 | Fábrica Austral de Productos Eléctricos S.A.
Islas Malvinas 1180, Rio Grande (9420),
Provincia de Tierra del Fuego, Antártida e Islas
del Atlántico Sur, Argentina |

General product information and other remarks:

Product Description –

The models are LCD Monitor intended for general office use and information technology equipment with following features:

1. LCD Type: TFT LCD with LED backlight.
2. External approved adapter ADP-330CB B and PA-1331-99XX, which complies with ES1.
3. Main board 715GC316 with HDMI x2, DP and Microphone out (Connect to PC).
4. Main board 715GC319 with Microphone in, Earphone, USB type C, USB upstream, USB3.2 Gen1(x3) and USB3.2 Gen1+fast charging(x1).
5. All data ports on main board are optional use, and at least one of HDMI or DP was used.
6. The internal metal chassis is considered as fire enclosure and mechanical enclosure, and the external plastic enclosure is regarded as decorative enclosure, made of min. HB material.
7. Base stand, made of metal and plastic (min. HB material).
8. Maximum declared ambient: 35°C.

Model Differences –

All models are identical except for different enclosure colour for marketing purpose only, no technical difference.

Definition of variable(s) on model name:

Variable:	Range of variable:	Content:
**	0-9, A-Z, a-z, -, \, /, + or blank	Represent different enclosure colour for marketing purpose only, no technical difference.