

Top Victory Electronics (Taiwan)
Co., Ltd.
Mr. Kevin Hung

Date : 30.05.2019
Our ref. : PWC ZTW1
Your ref.: TP-N-18451069

10F., No. 230, Liancheng Rd.
Zhonghe Dist., New Taipei City
23553
Taiwan

Ref : G Ergonomic-Mark Approval

Type of Equipment : LCD Monitor
Model Designation : See Certificate
Certificate No. : G 50438003 0001
Report No. : 50254333 003

Dear Mr. Kevin Hung,

The above specified technical equipment has been tested and found to be in accordance with the relevant requirements.

Enclosed you will find the certificate of approval.

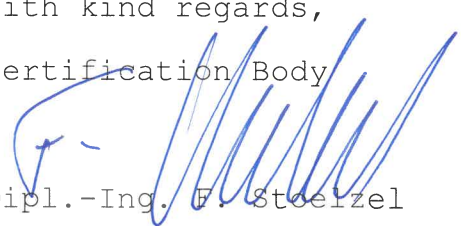
If cancellation of the certificate is submitted by November 15 in a given year, no fee will be charged for the following year.

We appreciate your kind support and would like to offer our assistance and continuous services in the future.

Please contact our office for approval of your new products.

With kind regards,

Certification Body


Dipl.-Ing. F. Stoezel

Enclosure

TÜV RHEINLAND TAIWAN LTD.

11F., No. 758, Sec. 4, Bade Rd.,
Songsan Dist., Taipei City 105,
Taiwan R. O. C.
Tel. (02) 2172-7000
Fax (02) 2172-1322
<http://www.tuv.com>

TAICHUNG BRANCH:
No. 9, Lane 36, Sec. 3, Minsheng Rd.,
Daya Dist., Taichung City 428,
Taiwan, R. O. C.
Tel. (04) 2521-8888
Fax (04) 2521-8899

KAOHSIUNG BRANCH:
27F-3, No.80, Minzu 1st Rd.,
Sanmin Dist., Kaohsiung City 807,
Taiwan, R. O. C.
Tel. (07) 262-6000
Fax (07) 380-0577

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
G 50438003

Blatt *Sheet*
0001

Ihr Zeichen *Client Reference*
TP-N-18451069

Unser Zeichen *Our Reference*
ZTW1-PWC-50254333 003

Ausstellungsdatum *Date of Issue*
30.05.2019 (day/mo/yr)

Genehmigungsinhaber *License Holder*

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

Fertigungsstätte *Manufacturing Plant*

Refer to latest revision
of the annex list of factories

Prüfzeichen *Test Mark*



Ergonomie
Regelmäßige
Produktions-
überwachung

www.tuv.com
ID 1419069768

Geprüft nach *Tested acc. to*

ISO 9241-307:2008
prEN 50279:1998
EK1-ITB 2000:2019

**Zertifiziertes Produkt (Geräteidentifikation)
*Certified Product (Product Identification)***

**Lizenzentgelte - Einheit
*License Fee - Unit***

Bildschirm (LCD Monitor)

Bezeichnung : siehe zugehörige Zertifikate oder
(Type Designation) Folgeblätter (refer to accompanying
certificates or additional sheets)
LCD-Display : VVX31P149H00 (Panasonic) (78.9cm)
(LCD-Panel)
Inhalt und Wahrnehmung : Virtualitätsdarstellung
(Content and Perception) (Artificial Information)
Farbgleichmäßigkeit (Chromaticity Uniformity) : hoch (high)
Pixelfehlerklasse (Pixel Fault Class) : 0
Vorgesehener Sehabstand (Design Viewing Distance) : 500mm
Vorgesehene Sehrichtung (Design Azimuth/Inclination): 90°/0°
Sehrichtungsbereich (Viewing Direction Range) : 76.6°
max. Bildschirmbeleuchtungsstärke : 1500lx
(max. Screen Illuminance)
Bestandteile der Beleuchtung (Components of the illumination)
Quelle mit großer, kleiner Öffnung : 200cd/m² & 2000cd/m²
(large, small aperture source)
Strahlungskategorie (Emission Category) : A
Hinweis (Remark) : Geprüft mit (Tested with)
VESA 60Hz - 4096 X 2160, Arial Large Font 36pt., 24bpp.

5

5

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.
This certificate is based on our Testing and Certification Regulation. The product
fulfills above mentioned requirements, the production is subject to surveillance.

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg

Tel.: +49 221 806-1371 e-mail: cert-validity@de.tuv.com
Fax: +49 221 806-3935 http://www.tuv.com/safety

Zertifizierungsstelle



Dipl.-Ing. F. Stölzel

Anlage Fertigungsstättenliste
/Attachment List of Factories



G 50438003 0001

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 L&T Display Technology (Fujian) Ltd.
Optoelectronic Park, Rongqiao
Economic and Technological
Development Zone
Fuqing, Fujian 350301
P. R. China

3 TPV Electronics (Fujian) Co., Ltd.
Rongqiao Economic and
Technological Development Zone
Fuqing City, Fujian Province
P. R. China

4 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

5 TPV Display Technology (China)
Co., Ltd.
No. 106 Jinghai 3 Rd., BDA
Beijing City 100176
P. R. China

Dieser Anhang ersetzt den Vorgänger vom/
This annex replaces the previous annex dated

Datum / Date 30.05.2019

Zertifizierungsstelle
/ Certification Body

Dipl.-Ing. P. Stoelzel



Top Victory Electronics (Taiwan)
Co., Ltd.
Mr. Kevin Hung

Date : 30.05.2019
Our ref. : PWC ZTW1
Your ref.: TP-N-18451069

10F., No. 230, Liancheng Rd.
Zhonghe Dist., New Taipei City
23553
Taiwan

Ref : G Ergonomic-Mark Approval

Type of Equipment : LCD Monitor
Model Designation : See Certificate
Certificate No. : G 50438005 0001
Report No. : 50254333 003

Dear Mr. Kevin Hung,

Enclosed please find above certification documents.
Please forward these originals to the certificate holder.

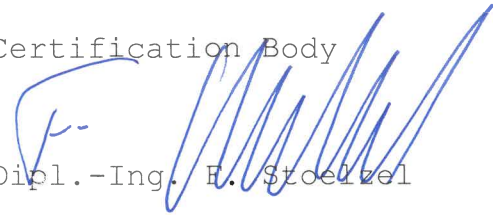
If you contact our office, please quote our reference above.

We thank you for your cooperation.

the certificate holder is: NEC Display Solutions, Ltd.

With kind regards,

Certification Body


Dipl.-Ing. E. Stoelzel

Enclosure

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27F-3, No.80, Minzu 1st Rd.,
Sanmin Dist., Kaohsiung City 807,
Taiwan, R. O. C.
Tel. (07) 262-6000
Fax (07) 380-0577

NEC Display Solutions, Ltd.
Mr. Naohiko Shimazu Senior Manager
Quality Assurance Department
4-28, Mita 1-chome, Minato-ku
Tokyo
108-0073 Japan

Date : 30.05.2019
Our ref. : PWC ZTW1
Your ref.: TP-N-18451069

Ref : G Ergonomic-Mark Approval

Type of Equipment : LCD Monitor
Model Designation : See Certificate
Certificate No. : G 50438005 0001
Report No. : 50254333 003

Dear Mr. Naohiko Shimazu,

The above specified technical equipment has been tested and found to be in accordance with the relevant requirements.

Enclosed you will find the certificate of approval.

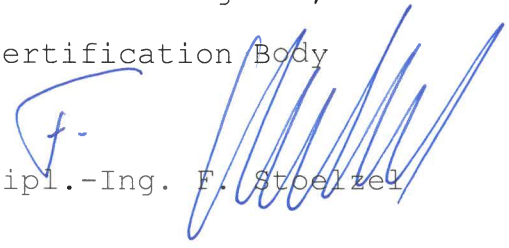
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Dipl.-Ing. F. Stoelzel

cc: Top Victory Electronics (Taiwan)

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Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
G 50438005

Blatt *Sheet*
0001

Ihr Zeichen *Client Reference*
TP-N-18451069

Unser Zeichen *Our Reference*
ZTW1-PWC-50254333 003

Ausstellungsdatum
30.05.2019

Date of Issue
(day/mo/yr)

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

Fertigungsstätte *Manufacturing Plant*
030-0000370942

Prüfzeichen *Test Mark*



Ergonomie
Regelmäßige
Produktions-
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EK1-ITB 2000:2019

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Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Bildschirm (LCD Monitor)

Bezeichnung : PA311D-BK (NEC)
(Type Designation)

1

LCD-Display : VVX31P149H00 (Panasonic) (78.9cm)
(LCD-Panel)

Inhalt und Wahrnehmung : Virtualitätsdarstellung
(Content and Perception) (Artificial Information)

Farbgleichmäßigkeit (Chromaticity Uniformity) : hoch (high)

Pixelfehlerklasse (Pixel Fault Class) : 0

Vorgesehener Sehabstand (Design Viewing Distance) : 500mm

Vorgesehene Sehrichtung (Design Azimuth/Inclination): 90°/0°

Sehrichtungsbereich (Viewing Direction Range) : 76.6°

max. Bildschirmbeleuchtungsstärke : 1500lx
(max. Screen Illuminance)

Bestandteile der Beleuchtung (Components of the illumination)

Quelle mit großer, kleiner Öffnung : 200cd/m² & 2000cd/m²
(large, small aperture source)

Strahlungskategorie (Emission Category) : A

Hinweis (Remark) : Geprüft mit (Tested with)

VESA 60Hz - 4096 X 2160, Arial Large Font 36pt., 24bpp.

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Dipl.-Ing. F. Stöelzel