

Prüfbericht-Nr.: Test Report No.:	17054120 002	Auftrags-Nr.: Order No.:	164104698	Seite 1 von 16 Page 1 of 16			
Kunden-Referenz-Nr.: Client Reference No.:	N/A	Auftragsdatum: 04.Sep.2017 Order date:					
Auftraggeber: Client:		Top Victory Electronics (Taiwan) Co., Ltd. 10F., No.230, Liancheng Rd., Zhonghe Dist, Taipei City, 235					
Prüfgegenstand: Test item:	Monitor						
Bezeichnung / Typ-Nr.: Identification / Type No.:	Model Number: 215LM00032 Model Name: E2260swdn; E2 (trademark: AOC)	_	wdan				
Auftrags-Inhalt: Order content:	TÜV Rheinland Energy Star t	est report					
Prüfgrundlage: Test specification:	ENERGY STAR Program Re IEC 62301 Ed 2.0: Household IEC 62087 Ed 3.0: Methods of	d Electrical Appliand	ces - Measurement				
Wareneingangsdatum: Date of receipt:	06.06.2016		erte Fotodokumenta				
Prüfmuster-Nr.: Test sample No.:	A000375817-002	siehe Se	eite 13 zu diesem Be	ericht			
Prüfzeitraum: Testing period:	14.06.2016 - 14.06.2016	Detailed photo documentation see page 13 to this report					
Ort der Prüfung: Place of testing:	TÜV Rheinland (Shenzhen) Co., Ltd.						
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.						
Prüfergebnis*: Test result*:	Pass						
geprüft von / tested by:		kontrolliert von	I reviewed by:	/			
06.Nov.2017 Steven Lin Datum Name Stel Date Name / Pos	lung Unterschrift			g / Reviewer nterschrift ignature			
Sonstiges / Other:	lion oignaturo	<u>Duto</u> Nu		gnaaro			
This product has an interr							
This report is based on or original model name E220	formation on the sample and te riginal report 17054120 001 to 60swda except for type designa original report 17054120 001.	add new model nan	ne E2260swdan, wh				
Zustand des Prüfgegens Condition of the test item	standes bei Anlieferung:		indig und unbeschäo te and undamaged	ligt			
* Legende: 1 = sehr gut P(ass) = entspricht o.t Legend: 1 = very good P(ass) = passed a.m. Dieser Prüfbericht bezieht s	2 = gut $3 = befriedigend$ g. Prüfgrundlage(n)F(ail) = entspricht r $2 = good$ $3 = satisfactory$	nicht o.g. Prüfgrundlage(n) test specification(s) und darf ohne Gene	4 = ausreichend N/A = nicht anwendbar 4 = sufficient N/A = not applicable ehmigung der Prüfste				
This test report only relates	s to the a. m. test sample. Without uplicated in extracts. This test repo	permission of the test	t center this test report				

TÜV Rheinland (Shenzhen) Co., Ltd. East of F/1, F/2~F/4, Building 1, Cybio Technology Building, No. 6 Langshan No.2 Road, North Hi-tech Industry Park, Nanshan District, Shenzhen P.R.China



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1. General Remarks

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 testing laboratory "(see remark #)" refers to a remark appended to the report. "(See appended table)" refers to a table appended to the report.

### 1.1 Complementary Materials

All attachments are integral parts of this test report.

### 1.2 Abbreviations Used

ABC:	Automatic Brightness Control	LAN:	Local Area Network
AEC:	Annual Energy Consumption	THD:	Total Harmonic Distortion
BD:	Blu-ray Disc	USB:	Universal Serial Bus
DVD:	Digital Versatile Disc	STB:	Set-top Box
DVI:	Digital Visual Interface	WAN:	Wide Area Network
HDMI:	High Definition Multimedia Interface	NOPR:	Notice of Proposed Rulemaking
EPCA:	Energy Policy andConservation Act	TEC:	Total Energy Consumption
UUT:	Unit Under Test		

# 2. Number of Units used for testing

One unit of a Representative Model, as defined in Section 1, shall be selected for testing.

For certification of a Product Family, the product configuration that represents the worst-case power demand for each product category within the Product Family shall be considered the Representative Model.



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# **3. General Product Information**

### 3.1 Product description

The model 215LM00032 is a 21.5 inch LCD Monitor for the use with information technology equipment.

Rating plate:



Cor	nfiguration Summary:	
1	Forced menue	Not applicable
2	Sleep mode	Provided
3	Off mode	Provided
4	Enhanced performance display	No
5	ABC function	Not provided
6	Bridging function	Not provided
7	Networking	Not provided
8	Touchscreen function	Not provided
9	Built-in speaker	Not provided
10	Occupancy sensor	Not provided
11	Signal interface	DVI
12	Resolution	1920x1080
13	Refresh rate	60Hz

Remark:

1. The test results were obtained according to the submitted test sample.

2. No nameplate was marked on the submitted test sample.



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> Verdict N/A

> > Ρ

N/A

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3.2.3

Clause	Requirement – Test	Result		
3.2.1	External Power Supply: External Power Supplies (EPSs): Single- and Multiple-voltage EPSs shall meet the Level VI or higher performance requirements under the International Efficiency Marking Protocol when tested according to the Uniform Test Method for Measuring the Energy Consumption of External Power Supplies, Appendix Z to 10 CFR Part 430.	Not applicable		
3.2.2	Power Management: i. Products shall offer at least one power management feature that is enabled by default, and that can be used to automatically transition from Sleep Mode to On Mode either by a connected host device or internally (e.g., support for VESA Display Power Management Signaling (DPMS), enabled by default). ii. Products that generate content for display from one or more internal sources shall have a sensor or timer enabled by default to automatically engage Sleep or Off Mode.	Confirmed with supplementing information from Manufacturer.		

### **3.3 Energy Requirements for Computer Monitors**

True Power Factor: Signage Displays shall

greater per Section 5.2.F) in the ENERGY

have a true power factor in On Mode of 0.7 or

iii. For products that have an internal default

transitions from On Mode to Sleep Mode or Off Mode, the delay time shall be reported. iv. Monitors shall automatically enter Sleep Mode or Off Mode within 5 minutes of being

delay time after which the product

disconnected from a host computer.

STAR Test Method.

Clause	Requirement – Test	Result	Verdict
3.3.1	The Total Energy Consumption (TEC) in kWh shall be calculated per Equation 1 based on measured values.	See test result	Р
3.3.2	The Maximum TEC (ETEC_MAX) in kWh for Monitors shall be calculated per Table 1.	See test result	Р
3.3.3	For all Monitors, Calculated TEC (ETEC) in kWh shall be less than or equal the calculation of Maximum TEC (ETEC_MAX) with the applicable allowances and adjustments (applied at most once) per Equation 2.	See test result	P

Product is considered as a computer

monitor.



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Clause	Requirement – Test	Result	Verdic	
3.3.4	For Monitors meeting the enhanced performance display (EPD) requirements below, <u>only one</u> of the following Table 2 allowances shall be used in Equation 2: i. Contrast ratio of at least 60:1 measured at a horizontal viewing angle of at least 85° from the perpendicular on a flat screen and at least 83° from the perpendicular on a curved screen, with or without a screen cover glass; ii. A native resolution greater than or equal to 2.3 megapixels (MP); and iii. Color Gamut greater than or equal to 32.9% of CIE LUV.	m d ;		
3.3.5	For monitors with Automatic Brightness Control (ABC) enabled by default, an energy allowance (EABC), as calculated per Equation 4, shall be added to ETEC_MAX in Equation 2, if the On Mode power reduction (RABC), as calculated per Equation 3, is greater than or equal to 20%.	Not applicable	N/A	
3.3.6	Products with Full Network Connectivity confirmed in Section 6.7 of the ENERGY STAR Test Method shall apply the allowance specified in Table 3.	Not applicable	N/A	
3.3.7	Products tested with an Occupancy Sensor active shall apply the allowance specified in Table 4.	Not applicable	N/A	
3.3.7	Products tested with Touch Technology active in On Mode shall apply the allowance specified in Equation 5.	Not applicable	N/A	



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3.4 On Mode Requirements for Signage Displays

Clause	Requirement – Test	Result	Verdict
3.4.1	The Maximum On Mode Power (Pon_MAX) in watts shall be calculated per Equation 6.	Not applicable	N/A
3.4.2	For Signage Displays with ABC enabled by default, a power allowance (P <sub>ABC</sub> ), as calculated per Equation 8, shall be added to P <sub>ON_MAX</sub> , as calculated per Equation 6, if the On Mode power reduction (R <sub>ABC</sub> ), as calculated per Equation 3, is greater than or equal to 20 percent.	Not applicable	N/A

### 3.5 Sleep Mode Requirements for Signage Displays

Clause	Requirement – Test	Result	Verdict
3.5.1	Measured Sleep Mode Power (PSLEEP) in watts shall be less than or equal the sum of the Maximum Sleep Mode Power Requirement (PSLEEP_MAX) and any allowances (applied at most once) per Equation 9.	Not applicable	N/A
3.5.2	Products with Full Network Connectivity confirmed in Section 6.7 of the ENERGY STAR Test Method shall apply the allowance specified in Table 6.	Not applicable	N/A
3.5.3	Products tested with an Occupancy Sensor or Touch Technology active in Sleep Mode shall apply the allowances specified in Table 7.	Not applicable	N/A

### 3.6 Off Mode Requirements for all Displays

Clause	Requirement – Test	Result	Verdict
3.6.1	A product need not have an Off Mode to be eligible for certification. For products that do offer Off Mode, measured Off Mode power (PoFF) shall be less than or equal to the Maximum Off Mode Power Requirement (PoFF_MAX) in Table 8.		Ρ

### 3.7 Luminance Requirements

Clause	Requirement – Test	Result	Verdict
3.7.1	Maximum Reported and Maximum Measured Luminance shall be reported for all products; As-Shipped Luminance shall be reported for all products except those with ABC enabled by default.	See test result	Р



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4. TEST ROOM SET-UP

#### 4.1 **Ambient Temperature Conditions**

Ambient temperature shall be 23°C ± 5°C.

#### 4.2 Ambient Relative Humidity Conditions

Relative humidity shall be from 10% to 80%.

#### **Ambient Light Values** 4.3

a) At 12 lux, ambient lighting shall be within ± 1.0 lux; and

b) At 300 lux, ambient lighting shall be within ± 9.0 lux.

#### 4.4 **UUT** Alignment

a) All four corners of the face of the Unit Under Test (UUT) shall be equidistant from a vertical reference plane (e.g., wall).

b) The bottom two corners of the face of the UUT shall be equidistant from a horizontal reference plane (e.g., floor).

#### 4.5 Light Source for On Mode Testing

Lamp Type:

a) Standard spectrum halogen flood reflector lamp. The lamp shall not meet the definition of "Modified spectrum" as defined in 10 CFR 430.2 -Definitions1.

b) Rated Brightness: 980 ± 5% lumens.

#### 4.6 Installation

Install the UUT in accordance with manufacturer's instructions.

#### 4.7 Light source Alignment for Testing Products with ABC function

- a) There shall be no obstructions between the lamp and the UUT's Automatic Brightness Control (ABC) sensor (e.g., diffusing media, frosted lamp covers, etc.).
- b) The center of the lamp shall be placed at a distance of 5 feet from the center of the ABC sensor.
- c) The center of the lamp shall be aligned at a horizontal angle of 0° with respect to the center of the UUT's ABC sensor.
- d) The center of the lamp shall be aligned at a height equal to the center of the UUT's ABC sensor with respect to the floor (i.e. the light source shall be placed at a vertical angle of 0° with respect to the center of the UUT's ABC sensor).
- e) No test room surface (i.e., floor, ceiling, and wall) shall be within 2 feet of the center of the UUT's ABC Sensor.
- Illuminance values shall be obtained by varying the input voltage of the lamp. f)

#### 4.8 Measurement Uncertainty

The measured input power is:  $P(W) \pm 0.15\%$ 

The measured ambient light value is 100 lx ( $\pm$  5 lx), 35 lx ( $\pm$  2 lx), 12 lx ( $\pm$  1 lx), and 3 lux ( $\pm$  1 lx).

The luminance and illuminance meters:  $\pm 2\%$  ( $\pm 2$  digits) of the digitally displayed value.



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# 5. Test Conduct

### 5.1 Guidance for Power Measurements

A) <u>Testing at Factory Default Settings</u>: Power measurements shall be performed with the product in its as-shipped condition for the duration of Sleep Mode and On Mode testing, with all user-configurable options set to factory defaults, except as otherwise specified by this test method.

1) Picture level adjustments shall be performed per the instructions in this test method.

2) Products that include a "forced menu" that requires picture setting selection upon initial start-up shall be tested in the "standard" or "home" picture setting. In the case that no standard setting or equivalent exists, the default setting recommended by the manufacturer shall be used for testing and recorded in the test report. Products that do not include a forced menu shall be tested in the default picture setting.

B) Point of Deployment (POD) Modules: Optional POD modules shall not be installed.

C) <u>Plug-in Modules</u>: Optional Plug-in Modules shall be removed from the Display if the Display can be tested according to the test method without the module installed.

D) <u>Sleep Mode with Multiple Functionalities</u>: If the product offers multiple options for device behavior in Sleep Mode (e.g., quick start) or multiple methods by which Sleep Mode may be entered, the power during all Sleep Modes shall be measured and recorded. All Sleep Mode testing shall be carried out as per Section 6.5.

## 5.2 Conditions for Power Measurementsrity

A) Power measurements:

1) Power measurements shall be taken from a point between the power source and the UUT. No Uninterruptible Power Supply (UPS) units may be connected between the power meter and the UUT. The power meter shall remain in place until all On Mode, Sleep Mode and Off Mode power data are fully recorded.

2) Power measurements shall be recorded in watts as directly measured (unrounded) values at a rate of greater than or equal to 1 reading per second.

3) Power measurements shall be recorded after voltage measurements are stable to within 1%.

- B) Dark Room Conditions: Unless otherwise specified, the illuminance measured at the UUT screen with the UUT in Off Mode shall be less than or equal to 1.0 lux. If the UUT does not have an Off Mode, the illuminance shall be measured at the UUT screen with the UUT's power cord disconnected.
- C) UUT Configuration and Control:
  - 1) Peripherals and Network Connections:

a) External peripheral devices (e.g. mouse, keyboard, external hard disk drive (HDD) etc.) shall not be connected to USB ports or other data ports on the UUT.

b) <u>Bridging</u>: If the UUT supports bridging per the definition in Section 1 of the ENERGY STAR Eligibility Criteria for Displays Version 7.0, a bridge connection shall be made between the UUT and the Host Machine. The connection shall be made in the following order of preference. Only one connection shall be made and the connection shall be maintained for the duration of the test.

i. Thunderbolt

ii. USB

iii. Firewire (IEEE 1394)



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### iv. Other

c) <u>Networking</u>: If the UUT has networking capability (i.e., it has the ability to obtain an IP address when configured and connected to a network) the networking capability shall be activated, and the UUT shall be connected to a live physical network (e.g., WiFi, Ethernet, etc.). The physical network shall support the highest and lowest data speeds of the UUT's network function. An active connection is defined as a live physical connection over the physical layer of the networking protocol. In the case of Ethernet, the connection shall be via a standard Cat 5e or better Ethernet cable to an Ethernet switch or router. In the case of WiFi the device shall be connected and tested in proximity to a wireless access point (AP). The tester shall configure the address layer of the protocol, taking note of the following:

i. Internet Protocol (IP) v4 and IPv6 have neighbor discovery and will generally configure a limited, non-routable connection automatically.

ii. IP can be configured manually or by using Dynamic Host Configuration Protocol (DHCP) with an address in the 192.168.1.x Network Address Translation (NAT) address space if the UUT does not behave normally when autoIP is used. The network shall be configured to support the NAT address space and/or autoIP.

iii. The UUT shall maintain this live connection to the network for the duration of testing unless otherwise specified in this Test Method, disregarding any brief lapses (e.g., when transitioning between link speeds). If the UUT is equipped with multiple network capabilities, only one connection shall be made in the following order of preference:

a. WiFi (Institution of Electrical and Electronics Engineers -IEEE 802.11-2007<sup>2</sup>)

b. Ethernet (IEEE 802.3). If the UUT supports Energy Efficient Ethernet (IEEE 802.3az2010<sup>3</sup>), then it shall be connected to a device that also supports IEEE 802.3az

- c. Thunderbolt
- d. USB
- e. Firewire (IEEE 1394)

f. Other

d) <u>Touchscreen Functionality</u>: If the UUT features a touchscreen that requires a separate data connection, this function shall be set up as directed by the manufacturer's instructions, including connections to the Host Machine and installation of software drivers.

- e) In the case of a UUT that has a single connection capable of performing multiple functions (e.g. bridging, networking, and/or touchscreen functionality), a single connector can be used to meet these functionalities provided it is the highest preferred connection the UUT supports for each functionality.
- f) In the case of a UUT that has no data/network capabilities, the UUT shall be tested as-shipped.

g) Built-in speakers and other product features and functions not specifically addressed by the ENERGY STAR eligibility criteria or test method must be configured in the as-shipped power configuration.

h) Availability of other capabilities such as occupancy sensors, flash memory-card/smart-card readers, camera interfaces, PictBridge shall be recorded.

- 2) Signal Interface:
  - a) If the UUT has multiple signal interfaces, the UUT shall be tested with the first available interface from the list below:
    - i. Thunderbolt

ii. DisplayPort



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iii. HDMI

iv. DVI

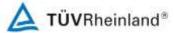
v. VGA

vi. Other Digital Interface

vii. Other Analog Interface

- 3) <u>Occupancy Sensor</u>: If the UUT has an occupancy sensor, the UUT shall be tested with the occupancy sensor settings in the as-shipped condition. For UUT's with an occupancy sensor enabled as-shipped:
  - a) A person shall be within close proximity of the occupancy sensor for the entire warm up, stabilization, luminance testing and On Mode to prevent the UUT from entering a lower power state (e.g. Sleep Mode or Off Mode). The UUT shall remain in On Mode for the duration of the warm up period, stabilization period, luminance test and On Mode test.
  - b) No person shall be within close proximity of the occupancy sensor for the duration of the Sleep Mode and Off Mode tests to prevent the UUT from entering a higher power state (e.g. On Mode). The UUT shall remain in Sleep Mode or Off Mode for the duration of the Sleep Mode or Off Mode tests, respectively.

4) <u>Orientation</u>: If the UUT can be rotated into vertical and horizontal orientations, it shall be tested in the horizontal orientation, with the longest dimension being parallel to the table surface.



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<b>Prüfber</b> Test Repor		- Nr.	:	1705	4120	002				Seite 12 Page 1			
6. Meas	urer	nent	:										
6.1	Tes	st Dat	a and I	Results	:								
RESULT					-						Pas	e l	
NEOOE1	•										1 40		
Mandate:	1. Ca	lculate	d TEC (E	т <sub>тес</sub> ) in kV	Vh shall	be less tha	n or equ	al the co	alculatio	on of			
	Maximum TEC ( $E_{TEC MAX}$ ) with the applicab						owance	s and ad	ljustmen	ts			
			_	-		, n or equal t			•				
			-	n and se									
	-	•	reen siz		(54.6 c	(m)		21.5 in	ch				
	-		en Area:		101100				square i	nch			
	Reso	olution	in Mega	apixels				2.1 M	•				
	Enha	anced p	perform	ance dis	play			No					
	Full	networ	k conne	ectivity				No					
			' sensor	•				No					
	Touc	chscree	en					No					
Limits:	E <sub>TEC_</sub>	limit						≤ 50.5	9 kWh				
	P <sub>OFF</sub> :							≤ 0.5 I	Natt				
Test	• • • •												
result:	Setti Movi	-	on ort luu	minonoo				200.0	ad /m 2				
			•	minance d Lumin				300.0 0					
			Lumin		ance			292.0 cd/m² 270.0 cd/m² 200.2 cd/m²					
			uminan										
	Input	t Signa	l used					DVI					
	Defa	ult Del	ay Time	to Sleep	כ			1.0	min				
TEC	Tota	l Enero	v Cons	umption	(TEC) i	n kWh							
	Volt.	Freq.	Pon	P <sub>SLEEP</sub>	<b>E</b> <sub>TEC</sub>	E <sub>TEC_MAX</sub>	E <sub>EP</sub>	E <sub>ABC</sub>	E <sub>N</sub>	Eos	Eτ	E <sub>TEC limit</sub>	
	[V]	[Hz]	[W]	[W]	[kWh]	[kWh]	[kWh]	[kWh]	[kWh]	[kWh]	[kWh]	[kWh]	
	100	50	14.78	0.40	47.59	50.59	0.00	0.00	0.00	0.00	0.00	50.59	
	100	60	14.76	0.40	47.53	50.59	0.00	0.00	0.00	0.00	0.00	50.59	
	115	60	14.68	0.39	47.23	50.59	0.00	0.00	0.00	0.00	0.00	50.59	
	230	50	14.76	0.44	47.76	50.59	0.00	0.00	0.00	0.00	0.00	50.59	
Off Mode													
	Volt.	Freq.	POFF										
	[V]	[Hz]	[W]										
	100	50	0.17										
	100	60	0.18										
	115	60	0.17										
	230	50	0.21										
Note:	Maxi	mal TH	ID meas	sured wh	ile perfe	orming all	tests wa	as 0.25%	6.				

Produkte Products



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# 7. Photographs of the UUT



## Figure 1. Front view



Figure 2. Back view

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 TPM215HW01
 Made in Chine

 RDP2
 HGEL02
 REV:C3B
 RHB

Figure 3. Panel label for panel TPM215HW01-HGEL02 (TPV)



Figure 4. Power board

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<image>

Figure 5. Interface board



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## 8. Attachment: Signed Declaration of Confomity (DoC) for family models

# **Declaration of Conformity**

Difference between models for ENERGYSTAR Display

Model number	215LM00032
Model name	difference
E2260swdn	base model + VGA+DVI
E2260swda E2260swdan base model + VGA + <u>DVI+Special</u> SPEC	

Signature:

270

Name: YIN.TAO

Title: Safety Engineer

Company name: TPV Display Technology (Beihai) Co.,L

Date: Nov-06-17



# 9. Attachment: Measurement and Test equipment list

Ref. No	Equipments	Model	Cal. Date	Due Date
1.884	Digital Power Meter	Yokogawa / WT-210	Jul-2015	Jul-2016
1.802	Luminance Meter	Microvision / SS320	Jul-2015	Jul-2016
1.887	Temperature Humidity Recorder	Sato / SK-L200TH	Nov-2015	Nov-2016
1.897	AC Power Source	ALL POWER / APW-110NH	Mar-2016	Mar-2017
1.891	Stop watch	LEAF / PC396	Jan-2016	Jan-2017