

1.0 Reference and Address						
Report Number	200302963SHA-001	Revised: None				
Standard(s)	ENERGY STAR® Prog	Iram Requireme	nts for Displays V	ersion 8.0		
Applicant	Top Victory Electronics Co.,Ltd.	(Taiwan)	Manufacturer	TPV Electronics(Fujian) Co., Ltd		
Address	10F.,No.230,Lianchenç City. Taipei Country 23		Address	Rongqiao Economic and Technological Development Zone, Fuqing City, Fujian Province		
Country	Taiwan		Country	P.R.China		
Contact	David.Cheng		Contact	Winter.Feng		
Phone	+886-2-82261668-237	5	Phone	+86-591-85285555		
FAX	+886-2-82261668-237		FAX	+86-591-85285447		
Email	David.cheng@tpv-tech	.com	Email	winter.feng@tpv-tech.com		
Manufacturer 2	TPV Display Technolog Co.,Ltd		Manufacturer 3	TPV Display Technology (China) Co., Ltd.		
Address	China Electronic Beiha Park,Northeast of the C between Taiwan Road Beihai City,Guangxi	Crossing	Address	No.106 Jinghai 3 Rd., BDA, Beijing City		
Country	China		Country	China		
Contact	Yin Tao		Contact	Nancy.Shang		
Phone	18277949678		Phone	86(10)64326699-8312		
FAX	86-779-2232270		FAX	NA		
Email	yin.tao@tpv-tech.com		Email	lijia.shang@tpv-tech.com		
Manufacturer 4			Manufacturer 5	TPV Display Technology(Wuhan)Co.,Ltd		
Address	Optoelectronic Park, R Economic and Technol Development Zone,Fue	logical	Address	Unique No.11 Zhuankou Development District of Economic Technological Development Zone Wuhan		
Country	China		Country	China		
Contact	Shan Xu		Contact	Zhe.Zhou		
Phone	86(591)8651-5556		Phone	86(27)-6884 3822		
FAX	86(591)8651-5556		FAX	86(27)-6884 3822		
Email	shan.xu@Intdisplayfj.co	om	Email	zhe.zhou@tpv-tech.com		

Page 1 of 19

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2.0 Product Des	2.0 Product Description					
Product	Display (LCD Monit	or)				
Brand Name	AOC	•				
Description	The product covere	ed by this re	eport is a Display (L0	CD Monito	or)	
Models	24E2D(24E2);24E2	2DA(24E2)	;24E2H(24E2); 24P2	2Q(24P2);	24P2U(24P2);2	4P2C(24P2)
Model Similarity	Model Name:24E2D, 24E2DA,24E2H, 24P2Q, 24P2U,24P2C Model Number:24E2,24P2 24E2 is equipped with rotatable pivot and 24P2 without rotatable pivot. Different model name means different sales region.					
Ratings	100-240Vac,50/60Hz,1.5A					
Other Ratings	NA					
Date Available	10/25/2019		Market Availability	Yes	OEM	TPV Electronics(Fujian) Co. Ltd
Major Markets	Canada, Japan, Taiwan, United States					
Trans Type	Initial Certification: Model Meets ENERGY STAR Requirements					
Notes	NA					
Additional Model	Model Name and	Number		Identifyi	ing Information	
Details						
(Optional)				_		
Original Certificat	e Actual Issued Dat	e for Mode	I Tested (Only Appli	es to Rev	ised Reports)	NA

3.0 Product Photographs

Photo 1 - External View (front)

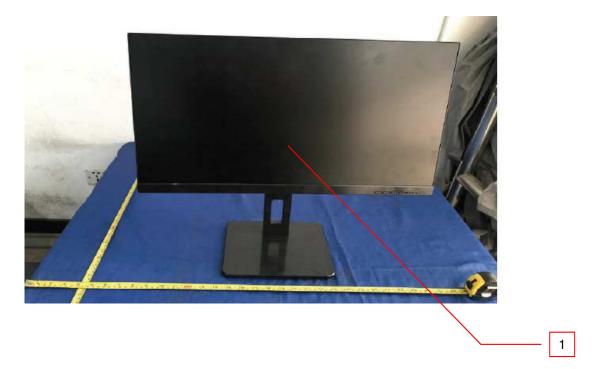


Photo 2 - External View (back)



2

3.0 Product Photographs

Photo 3 - Main Board (715G9494)



Photo 4- Main Board (715G9483)



Page 5 of 19

4

3.0 Product Photographs

Photo 5- Main Board (715G9485)



Photo 6- Main Board (715G9496)



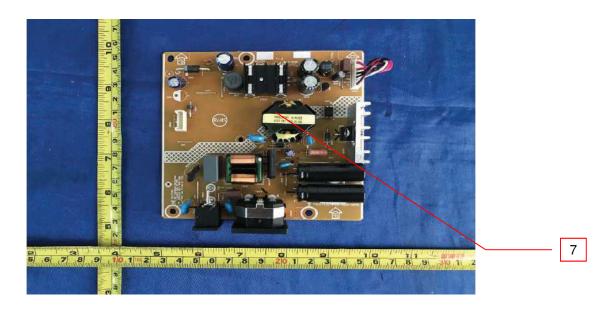
Page 6 of 19

3.0 Product Photographs

Photo 7- Main Board (715GB065)



Photo 8- Power Board (715G7610)

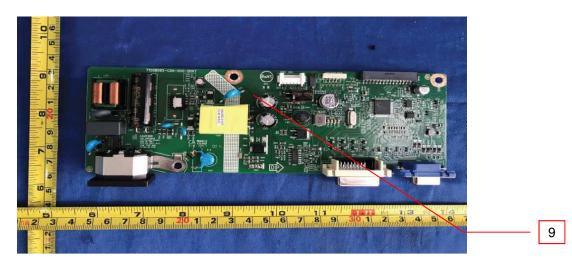


3.0 Product Photographs

Photo 9- Power Board (715GB004)



Photo 10- Main board and Power Board (715GB095)



4.0 0	4.0 Critical Components							
Photo #	Item no.1	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³		
1	1	LCD panel	TPV	TPM238WF1	23.8inch,TFT type,with LED backlight	NR		
3	2			715G9494		NR		
4	3			715G9483		NR		
5	4	Main Board TP	Main Board	Main Board	I TPV	715G9485	I/P: 19Vdc, 2.5A	NR
6	5				715G9496		NR	
7	6			715GB065		NR		
8	7	-Power Board TPV		715G7610	I/P:AC100-240V,50/60Hz,1.5A;	NR		
9	8			715GB004	O/P:max.19Vdc,2.5A	NR		
10	9	Main Board and Power board	TPV	715GB095	I/P:AC100-240V,50/60Hz,1.5A; O/P:max.19Vdc,2.5A This is tested type	NR		
NOTE	ES:							

1) Not all item numbers are indicated (called out) in the photos, as their location is obvious.

2) "Various" means any type, from any manufacturer that complies with the "Technical data and securement means" and meets the "Mark(s) of conformity" can be used.

3) Indicates specific marks to be verified, which assures the agreed level of surveillance for the component. "NR" - indicates: a) Unlisted and only visual examination is necessary or b) marks are not required to be verified.

5.0 Critical Unlisted CEC Components

Periodic Evaluation of Critical Unlisted Components by the Intertek Component Evaluation Centers (CEC) is not required under the INTERTEK ENERGY STAR Program.

6.0 Critical Features

<u>Critical Features/Components</u> - An essential part, material, subassembly, system, software, or accessory of a product that has a direct bearing on the product's conformance to applicable requirements of the ENERGY STAR® Program Requirements.

<u>Listed Component</u> - A component part, which has been previously Listed or Certified by an accredited Certification Organization with no restrictions and is used in the intended application within its ratings.

<u>Recognized Component</u> - A component part, which has been previously evaluated by an accredited certification body with restrictions and must be evaluated as part of the basic product considering the restrictions as specified by the Conditions of Acceptability.

<u>Unlisted Component</u> - A part that has not been previously evaluated to the appropriate designated component standard. It may also be a Listed or Recognized component that is being used outside of its evaluated Listing or component recognition.

<u>Construction Details</u> - For specific construction details, reference should be made to the photographs and descriptions. All dimensions are approximate unless specified as exact or within a tolerance. In addition to the specific construction details described in this Report, the following general requirements also apply.

1. Product Safety Compliance - NA

2. EMI Compliance - NA

3. Schematics - NA

4. <u>Installation, Operating and Safety Instructions</u> - Instructions for installation and use of this product are provided by the manufacturer. Refer to Illustration No.1-2 for details.

5. Package Markings - NA

6. Warranty Information - NA

7. <u>Marking Label</u> - Refer to Illustration No.3.for details.

7.0 Illustrations

Illustration 1 - Installation and Safety instruction

Safety

National Conventions

The following subsections describe notational conventions used in this document.

Notes, Cautions, and Warnings

Throughout this guide, blocks of text may be accompanied by an icon and printed in bold type or in italic type. These blocks are notes, cautions, and warnings, and they are used as follows:

X

NOTE: A NOTE indicates important information that helps you make better use of your computer system.

A

CAUTION: A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

WARNING: A WARNING indicates the potential for bodily harm and tells you how to avoid the problem. Some warnings may appear in alternate formats and may be unaccompanied by an icon. In such cases, the specific presentation of the warning is mandated by regulatory authority.

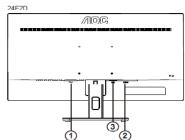
4

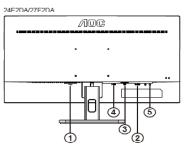
7.0 Illustrations

Illustration 2 - Installation and Safety instruction (Continued)

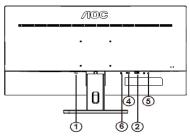
Connecting the Monitor

Cable Connections In Back of Monitor and Computer:





27E2QAE



1. Power

2. Analog (D-Sub 15-Pin VGA cable)

3 DVI

- 4. HDMI
- 5. Earphone

6. DisplayPort

Connect to PC

- 1. Connect the power cord to the back of the display firmly.
- 2. Turn off your computer and unplug its power cable.
- 3. Connect the display signal cable to the video connector on the back of your computer.
- Plug the power cord of your computer and your display into a nearby outlet.

5. Turn on your computer and display.

If your monitor displays an image, installation is complete. If it does not display an image, please refer Troubleshooting.

To protect equipment, always turn off the PC and LCD monitor before connecting.

9

7.0 Illustrations

Illustration 3 - Marking Label

	nonitor (LED Bad	cklight) P	Varning: Shock Hazard, Do Not Open. our éviter une électrocution, ne retirez pas le couvercle! /ww.aoc.com	AOC International Europe B.V. Amstelgebouw, 6th floor Prins Bernhardplein 200 1097 JB Amsterdam	
Product No.: Model No./модель номер:	24E2D 24E2			The Netherlands Envision Peripherals, Inc. 47490 Seabridge Drive Fremont, CA 94538	X
Power Rating/ Tegangan/Bxo CAN ICES-3(B)MMB-3(B) Late on Intelfava sugakoskettimilia va Apparaten må tilkopies jordet stilkonta Apparate stala arnebtes til jordet utilk Apparate stala arnebtes til bisktiss en at som and arter at an arnebte stil bisktissen at til bisktissen at an arnebte stil jordet util Apparate stala arnebtes at bisktissen at til bisktissen at an arnebte still bisktissen at an an an an arnebte still bisktissen at an an an an an an an arnebte still til bisktissen at an an til bisktissen at an an an an a	rustettuun pistorasiaan kt g ikkontakt med jord, ord an earthed mains socket-outli ise de courant			USA	

8.0 Test Summary				
Evaluation Period	4/16/2020-4/16/2		Project No. 2	200302963SHA
Sample Rec. Date	1-Apr-2020	Condition Prototype	Sample ID.	0200401-77-086
Test Location	Intertek Testing	Services Shanghai Limited EPA ID	(1105997)	
Test Location	Building No.86,	1198 Qinzhou Road (North), Shanghai		
Test Procedure	Testing Lab			Qualification
Determination of the I	result includes co	nsideration of measurement uncertaint	y from the test eq	uipment and
methods. The produc	ct was tested as i	ndicated below with results in conforma	ince to the relevar	nt test criteria.
The following require	ments were evalu	ated:		
Required Submittal In	formation			Submittal Data
Model Name and/or N	Number tested			24E2D(24E2)
Date tested				04/16/2020
Serial number of Unit	tested			1 sample
ENERGY_STAR_Spe	ecification_Versio	n*		8.0
Product_Type*				Monitor
Tiled_Display_System	n			
Maximum_Tiled_Con	figuration			
Panel Type*				Other
Other_Panel_Type				TFT LCD
Diagonal Screen Siz	e in*			23.8
Screen Area sq in*	—			242.18
Display Contrast Ra	tio*			1000
Native Vertical Reso				1920
Native Horizontal Re				1080
Total Native Resolut	—			2.1
Native Pixel Density		*		8562
As Tested Screen F				60
Maximum Screen R				60
Enhanced Performar				No
Color Gamut				-
	Ratio at 85 deg	Left_Horiz_Viewing_Angle		
		Right_Horiz_Viewing_Angle		
High Dynamic Rang		<u></u>		N/A
Other Available Inter				
Other Features				
Signal Interface*				DVI
Other Interface				
USB_C_with_Power_	Delivery Suppor	ed*		No
Maximum_Power_De				-
Other Power Source				
Does Model Have a		at Initial Start up*		No
Maximum_Measured				285.8
Maximum_Reported_				250
As_shipped_Luminar		·· <u>_</u> =		260.1
As_tested_Luminance				200
On_Mode_Power_at		Volts W		200
On_Mode_Power_at				
Measured On Mode				14.37
Reported On Mode				14.37
		Signage_Certification_W		
Measured_Sleep_Mo				0.1
Reported Sleep Mod				0.1
		Power_at_115_Volts_W		0.1
		for_Signage_Certification_W		
		_to_Default_Sleep_Mode*		0
		_to_beradit_Sleep_mode Entering Sleep or Off Mode		U
Default Delay Time	_ /_			5
Delauit_Delay_TIIIIe_				5

8.0 Test Summary					
Measured Off Mode Power at 115 Volts W	0.1				
Reported_Off_Mode_Power_at_115_Volts_W	0.1				
Measured_Total_Energy_Consumption_at_115_Volts_kWh	44.63				
Reported_Total_Energy_Consumption_at_115_Volts_kWh	44.63				
Max_Total_Energy_Consumption_Limit_for_Monitor_kWh	45.73				
On_Mode_Power_at_12_Lux_at_230_Volts_W					
On Mode Power at 300 Lux at 230 Volts W					
Measured On Mode Power at 230 Volts W	14.58				
Measured Sleep Mode Power at 230 Volts W	0.14				
Measured Disconnected Sleep Mode Power at 230 Volts W					
Measured Off Mode Power at 230 Volts W	0.13				
Measured_Total_Energy_Consumption_at_230_Volts_kWh	45.5				
True Power Factor PF During On Mode Testing at 115 Volts W	0.5				
True Power Factor PF During On Mode Testing at 230 Volts W	0.39				
Color_Spaces_Supported*	sRGB				
Available_Signal_or_Data_Interfaces*	VGA,DVI				
Model Features*	Built-In Speakers				
Features Enabled in Default On Mode*	Built-In Speakers				
Features_Enabled_in_Default_Sleep_Mode*	None				
Wireless Technologies Supported*	None				
Ethernet Supported*	None				
	Ac to dc internal				
Power Source*	power supply				
	Display Power				
	Management				
Mechanism_for_Automatically_Entering_Sleep_or_Off_Mode*	Signaling				
On_Mode_Power_at_12_Lux_at_100_Volts_50Hz_W					
On_Mode_Power_at_300_Lux_at_100_Volts_50Hz_W					
Measured_On_Mode_Power_at_100_Volts_50Hz_W	14.41				
Measured_Sleep_Mode_Power_at_100_Volts_50Hz_W	0.1				
Measured_Disconnected_Sleep_Mode_Power_at_100_Volts_50Hz_W					
Measured_Off_Mode_Power_at_100_Volts_50Hz_W	0.1				
Measured_Total_Energy_Consumption_at_100_Volts_50Hz_kWh	44.75				
On_Mode_Power_at_12_Lux_at_100_Volts_60Hz_W					
On_Mode_Power_at_300_Lux_at_100_Volts_60Hz_W					
Measured_On_Mode_Power_at_100_Volts_60Hz_W	14.42				
Measured_Sleep_Mode_Power_at_100_Volts_60Hz_W					
Measured_Disconnected_Sleep_Mode_Power_at_100_Volts_60Hz_W					
Measured_Off_Mode_Power_at_100_Volts_60Hz_W	0.1				
Measured_Total_Energy_Consumption_at_100_Volts_60Hz_kWh	44.78				

8.1 Signatures					
A representative sam	ple of the product covered by this re	port has been evalu	ated and found to comply with the		
applicable requirement	applicable requirements of the standards indicated in Section 1.0.				
Completed by:	Eli Shui	Reviewed by:	Carl Dong		
Title:	Engineer	Title:	Engineer		
Signature:	Eli Shini	Signature:	Carl Pong.		

9.0 Correlation Page For Multiple Listings				
The following products, Company name.	which are identical to those iden	tified in this report except for model	number and	
BASIC LISTEE	Top Victory Electronics (Taiwar	n) Co., Ltd.		
Address	10F.,No.230,Liancheng Rd. Zho	onghe City. Taipei Country 23553		
Country	Taiwan	EPA ID	1065104	
Product	Display (LCD Monitor)			
Contact	David.Cheng			
Phone	+886-2-82261668-2375			
FAX	+886-2-82261668-2375			
Email	David.cheng@tpv-tech.com			
MULTIPLE LISTEE 1	None			
Address			r	
Country		EPA ID		
Contact				
Phone				
FAX				
Email				
Brand Name			0514	
Date Available		Market Availability	OEM	
Major Markets				
Trans Type				
Notes				
ASSOCIATED				
MANUFACTURER				

Address		
Country		
MULTIPLE	LISTEE 1 MODELS	BASIC LISTEE MODELS
Additional Model Details (Optional)	Model Name and Number	Identifying Information

MULTIPLE LISTEE 2	None		
Address			
Country		EPA ID	
Contact			
Phone			
FAX			
Email			
Brand Name			
Date Available		Market Availability	OEM
Major Markets			
Trans Type			
Notes			
ASSOCIATED			
MANUFACTURER			
Address			
Country			
MULTIPLE LISTEE 2 MODELS		BASIC LISTEE MO	DELS
Additional Model	Model Name and Number	Identifying Informa	tion
Details (Optional)			

10.0 General Information

The Applicant has agreed to produce products in accordance with the requirements of this report and to maintain compliance with all ENERGY STAR Product Specification requirements.

Changes to Product Design / Alternate Components

As part of this agreement, the Applicant also has agreed to notify Intertek and to request authorization prior to making any changes to the product (including but not limited to using alternate parts, components or materials) which may effect compliance with the ENERGY STAR Product Specification. Those parts, components or materials identified as critical have been listed in Section 4.0 of this report.

Product Surveillance

Under this Program, market surveillance is conducted on an annual basis. For each Product Type defined in the EPA ENERGY STAR Program, Intertek will select 10% of those certified products for Verification Testing in accordance with the requirements of the EPA ENERGY STAR Product Specification.

The primary source for products under Verification Testing will be the retail market. Applicants whose products are selected for Verification Testing are required to provide a list of locations where the product might be obtained. The Applicant is responsible for the cost of procurement and the Verification Tests. Should products not be readily available on the retail market, the Applicant is required to provide access to distribution warehouses to allow selection of those products. Should the product not be available on the retail market or if procurement from the retail market is not feasible, then alternate arrangements for Verification Testing will be made by the Intertet Cortification Redu

As a general rule under the Verification Testing requirements, the products must achieve energy values within 5% of the required Tier Limit.

Compliance with ENERGY STAR Product Specifications under Verification Testing

Products found non-compliant with ENERGY STAR Product Specification under Verification Testing, will be reported to the EPA within 48 hours and the product removed from the ENERGY STAR Program. If it is determined during Verification Testing that changes have been made to product design or critical components, the Certification Body may increase Verification Testing frequency of those products.

10.1 Evaluation of Unlisted Components

Because Unlisted Components are uncontrolled, and they do not fall under a third party follow up program, Intertek may require these components to be tested and/or evaluated at least once annually, more often for certain components, as part of the independent certification process. The Unlisted Components in Section 5.0 require testing and/or evaluation as indicated.

Note to Intertek Follow Up Inspector: The Component Evaluation Center, CEC, will notify you in writing when these components must be selected and sent to the CEC for re-evaluation

Ship the samples to: Intertek Testing Services Shanghai Limited ETL Component Evaluation Center Building No. 86, 1198 Qinzhou Road (North) Shanghai 200233, China Attn: Ms. Angela Han Sample Disposition: Due to the destructive nature of the testing, all samples will be discarded at the conclusion of testing unless, the manufacturer specifically requests the return of the samples. The request for return must accompany the initial component shipment.

11.0 Manufacturing and Production Tests

Manufacturing and Production tests are not required under the INTERTEK ENERGY STAR Program. However, Intertek encourages the use of such ongoing product testing to ensure compliance with the EPA ENERGY STAR Product Specifications.

12.0 Revision	12.0 Revision Summary The following changes are in compliance with the declaration of Section 8.1: Date/ Project Handler/ Proj # Site ID Reviewer None				
The following a	changes are in com	pliance wi	th the d	eclaration of Section 8.1:	
Date/ Proj # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change	
				None	