

Compliance Constructional Data Report (CDR)

1.0 Reference and Address							
Report Number	150400559SHA-001	Original Issued:	22-Apr-2015	Revised: 1-Mar-2016			
Standard(s)	ENERGY STAR® Program Requirements for Displays Version 6.0						
Applicant	MMD Monitors & Displays Nederland B.V.		Manufacturer	TPV Electronics(Fujian) Co., Ltd			
Address	Prins Bernhardplein 200, 1097 JB Amsterdam, The Netherlands		Address	Rongqiao Economic and Technological Development Zone, Fuqing City, Fujian Province			
Country	Netherland		Country	P.R.China			
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Report No. 150400559SHA-001 MMD Monitors & Displays Nederland B.V.

2.0 Product Description Display (Professional display/signage) **Product** Brand name **Philips** The product covered by this report is a LCD Display (LED backlighting) The evaluation standard of this report is based on: ENERGY STAR Program Requirements Product Specification for Displays Eligibility Criteria Version 6.0 Description And the test specification of this report refer to: IEC 62301:2011(Ed.2.0): Household electrical appliances -Measurement of standby power IEC 62087:2011(Ed.3.0): Methods of measurement for the power consumption of audio, video and related equipment Models BDL3230QL Model Similarity NA 100-240Vac, 50-60Hz, 1.5A Ratings Other Ratings NA Market availability Yes Last Mfg date NA 04/20/2015 Date available Australia, New Zealand, Canada, Europe, Japan, Switzerland, Taiwan, United States Major Markets Trans Type Modification: Other (If Other, List in Notes Field) Notes Add test specification in Description Model Name or Number **Identifying Information** Additional model details (optional) 04/30/2015 Original Certificate actual issued date for model tested (only applies to revised reports)

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3.0 Product Photographs

Photo 1 - External view (Front)



Photo 2 - External view (Back)

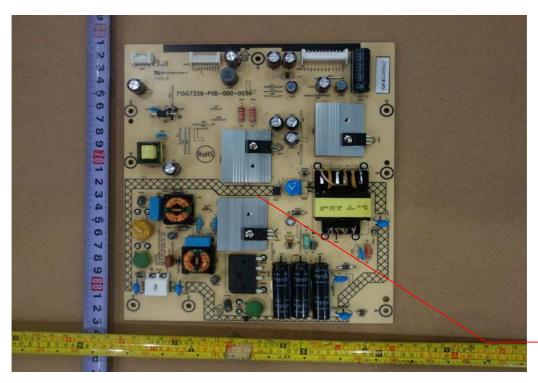


3.0 Product Photographs

Photo 3- Mainb board



Photo 4- Power Board



3

2

4.0 Critical Components Photo # Manufacturer/ Mark(s) of Item Technical data and securement Type / model² Name no.1 trademark² means conformity³ 31.5", TFT type, with LED TPV 1 1 LCD Panel TPT315B5 NR backlighting. 715G7249 3 2 TPV I/P: Max.5Vdc, Max.2.5A NRMain Board I/P: 90-264Vac, 47-63Hz, max.1.5A. TPV 4 3 Power Board 715G7339 O/P: 18Vdc, max.1.5A; NR 12Vdc, max.1.2A; 5.2Vdc, 1.6A

NOTES:

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

^{2) &}quot;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.

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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.for details.
- 5. Package Markings NA
- 6. Warranty Information NA
- 7. Marking Label Refer to Illustration No.2.for details.

7.0 Illustrations

Illustration 1 - Installation, Operating and Safety Instructions

BDL3230QL

Important Safety Instructions

- 1. Read these instructions
- 2. Keep these instructions.
- 3. Heed all warnings
- 4. Follow all instructions
- 5. Do not use this apparatus near water.
- 6. Clean only with dry cloth.
- 7. Do not block any ventilation openings, Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9. Do not defeat the safety purpose of the polarized or groundingtype plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11. Only use attachments/accessories specified by the manufacturer.
- 12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over



- 13. Unplug this apparatus during lightning storms or when unused for long periods of time
- 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

TO REDUCE THE RISK OF FIRE OR ELECTRIC WARNING:

SHOCK, DO NOT EXPOSE THIS APPARATUS TO

RAIN OR MOISTURE.

WARNING: Apparatus shall not be exposed to dripping or splashing

and no objects filled with liquids, such as vases, shall be

placed on the apparatus.

WARNING: The batteries (batteries installed) shall not be exposed to excessive heat such as sunshine, fire or the like

The mains plug or appliance coupler is used as the WARNING:

disconnect device, the disconnect device shall remain readily operable.

WARNING: To prevent the spread of fire, keep candles or other

open flames away from this product at all times.



WARNING: To prevent injury, this apparatus must be securely

attached to the floor/wall in accordance with the

installation instructions.

CAUTION service personnel only. To reduce the risk of electric

These servicing instructions are for use by qualified shock,do not perform any servicing other than that

contained in the operating instructions unless you are qualitified to do so.

CAUTION

Excessive sound pressure from earphones and headphones can cause hearing loss. Adjustment of the equalizer to maximum increases the earphone and headphone output voltage and the sound pressure level. Therefore, to protect your hearing adjust the equalizer to an appropriate level

For UL/CUL application: For use only with UL Listed Wall Mount Bracket with minimum weight/load: 8.7 Kg

For CB application: Unit without base weight 8.7 Kg. The equipment and its associated mounting means still remain secure during the test. (Used wall mounting kit: 400x400 mm and 200x200mm distance by using M6 screws of 10 mm long plus the thickness of the mounting bracket

IMPORTANT INFORMATION

If a television is not positioned in a sufficiently stable location, it can be potentially hazardous due to falling. Many injuries, particularly to children, can be avoided by taking simple precautions such as:

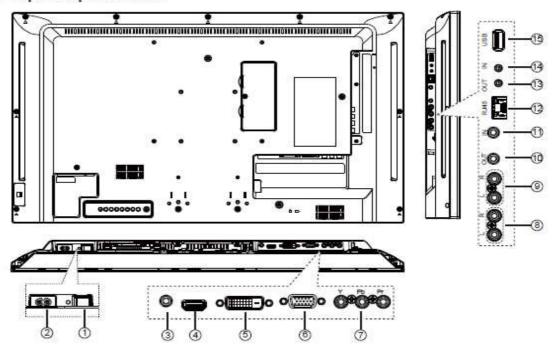
- Using cabinets or stands recommended by the manufacturer of the
- Only using furniture that can safely support the television.
- Ensuring the television is not overhanging the edge of the supporting furniture.
- Not placing the television on tall furniture/for example, cupboards or bookcases) without anchoring both the furniture and the television to a suitable support.
- · Not standing the televisions on cloth or other materials placed between the television and supporting furniture
- Educating children about the dangers of climbing on furniture to reach the television or its controls



7.0 Illustrations

BDL3230QL

2.2. Input/Output Terminals



1 MAIN POWER SWITCH

Switch the main power on/off.

2 AC IN

AC power input from the wall outlet.

3 PC LINE IN

Audio input from VGA source (3.5mm stereo phone).

(4) HDMI IN

HDMI video / audio input.

3 DVI-D IN

DVI-D video input.

6 VGA IN (D-Sub)

VGA video input.

① Y/CVBS

Video source input.

(8) AUDIO IN

Audio input from external AV device (RCA),

AUDIO OUT

Audio output to external AV device.

1 IR OUT/1 IR IN

IR signal output /input for the loop-through function.

NOTES:

- This display's remote control sensor will stop working if the jack [IR IN] is connected.
- To remotely control your A/V device via this display refer to page 12 for IR Pass Through connection.

(12) RJ-45

LAN control function for the use of remote control signal from control center.

(3) RS232 OUT / (3) RS232 IN

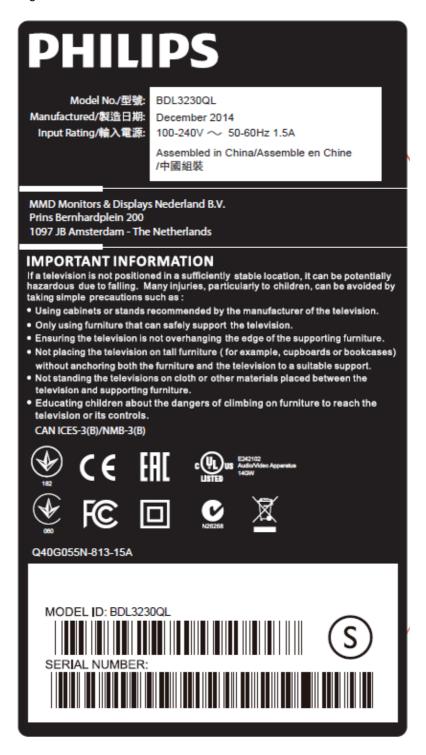
RS232C network output / input for the loop-through function.

1 USB PORT

Connect your USB storage device.

7.0 Illustrations

Illustration 2 - Marking Label



8.0 Test Summary	8.0 Test Summary							
Evaluation Period	4/22/2015-4/22/2	2015	Project No.	150400559SHA				
Sample Rec. Date	13-Apr-2015	Condition Prototype		0150413-87-001				
		Services Shanghai Limited. EPA ID(110						
Test Location		1198 Qinzhou Road (North), Shanghai :						
Test Procedure Testing Lab Test type Qualification								
Determination of the r	Determination of the result includes consideration of measurement uncertainty from the test equipment and							
methods. The produc	ct was tested as i	ndicated below with results in conforma	nce to the releva	nt test criteria.				
The following requires		ated:						
Required Submittal In				Submittal Data				
Model Name and/or N	lumber tested			BDL3230QL				
Date tested				04/22/2015				
Serial number of Unit				NA				
ENERGY_STAR_Spe	ecification_Versio	n*		6.0				
				Professional				
Product_Type*				display/signage				
Other_Product_Type				NA				
Display_Type*				Other				
Other_Display_Type				TFT LCD				
Display_Backlight_Te				LED				
Other_Display_Backli				NA				
Display_Contrast_Ra				1400:1				
Viewable_Screen_He				15.5				
Viewable_Screen_Wi				27.5				
Diagonal_Viewable_S				31.5				
Viewable_Screen_Are	ea_sq_in*			425.27				
Aspect_Ratio*				1.78				
Native_Resolution_V				1080				
Native_Resolution_H				1920				
Total_Native_Resolut				2.074				
Maximum_Resolution				1080				
Maximum_Resolution				1920				
Native_Pixel_Density		<u>1* </u>		4876				
Screen_Refresh_Rate				60				
Horizontal_Viewing_A				178				
Vertical_Viewing_Ang	gle_degrees*			178				
Color_Gamut*				68% of NTSC				
Is_Color_Gamut_at_I		B: 1		No				
Is_This_Model_an_E				No				
		Horizontal_Viewing_Angle		NA				
		t_Horizontal_Viewing_Angle		NA				
		ernal_Power_Supply_EPS*		No				
Is_Model_Sold_Throu		Inanneis*		Yes				
Other_Available_Inter				NA				
Other_Data_Network		5		RS232				
Other_Model_Options	3			NA				
Interface*				HDMI				
Other_Interface	1' *			NA				
Data_Network_Conne				Fast Ethernet				
Other_Data_Network	_connected			NA A a Wall Outland				
Power_Source*				Ac Wall Outlet				
Other_Power_Source				NA Na				
VESA_FPDM2_Test_				No				
Recommended_Imag		. T.,,,,,,,,**		698.4x392.85				
Display_Has_an_Inte	_			No				
		Entering_Sleep_or_Off_Mode		NA				
Default_Delay_Time_	_io_sieep_min							

8.0 Test Summary	
Does_Model_Have_a_Forced_Menu_at_Initial_Start_up*	No
Is_Automatic_Brightness_Control_ABC_Present*	No
Is_Automatic_Brightness_Control_ABC_Enabled_by_Default	No
Automatic_Brightness_Control_ABC_Disabled_Brightness_Mode	110
Minimum Luminance cd m 2*	0.7
Maximum_Measured_Luminance_cd_m_2*	362.1
Maximum_Reported_Luminance_cd_m_2*	350
As_shipped_Luminance_cd_m_2	263.7
As_tested_Luminance_cd_m_2*	227.5
On_Mode_Power_at_10_Lux_at_115_Volts_W	221.0
On_Mode_Power_at_300_Lux_at_115_Volts_W	
Measured_On_Mode_Power_at_115_Volts_W	42.58
Reported_On_Mode_Power_at_115_Volts_W	42.00
Measured_Sleep_Mode_Power_at_115_Volts_W	0.25
Reported_Sleep_Mode_Power_at_115_Volts_W	0.23
Measured_Non_Connected_Sleep_Mode_Power_at_115_Volts_W	
Measured_Off_Mode_Power_at_115_Volts_W	0.25
Reported Off Mode Power at 115 Volts W	0.23
On_Mode_Power_at_10_Lux_at_230_Volts_W	
On_Mode_Power_at_300_Lux_at_230_Volts_W	
Measured On Mode Power at 230 Volts W	41.76
Measured_Sleep_Mode_Power_at_230_Volts_W	0.26
Measured_Non_Connected_Sleep_Mode_Power_at_230_Volts_W	0.20
Measured_Off_Mode_Power_at_230_Volts_W	0.00
On_Mode_Limit_Pon_max_W*	0.26
Sleep_Mode_Limit_Psleep_ap_or_Psleep_max_W*	122.82
Off_Mode_Limit_Poff_max_W*	0.7
	0.5
True_Power_Factor_PF_During_On_Mode_Testing*	0.56
Low_Voltage_Dc_Source_Power_Pl_W	0
Adder_for_an_Enhanced_Performance_Display_W	0
Adder_for_Automatic_Brightness_Control_W	0
Number_of_Sleep_Modes_in_Addition_to_Default_Sleep_Mode*	0
Signal_Technology*	Analog, Digital
Available Interferent	HDMI,DVI,VGA,C
Available_Interfaces*	omposite
Data_Network_Peripheral_Ports*	Ethernet,Other
Model_Options*	Built-In Speakers
	Display Power
Manharian for Automotically Estadon Olean on Off Mada	Management
Mechanism_for_Automatically_Entering_Sleep_or_Off_Mode*	Signaling
On_Mode_Power_at_10_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	42.87
Measured_Sleep_Mode_Power_at_100_Volts_50Hz_W	0.25
Measured_Non_Connected_Sleep_Mode_Power_at_100_Volts_50Hz_W	
Measured_Off_Mode_Power_at_100_Volts_50Hz_W	0.25
On_Mode_Power_at_10_Lux_at_100_Volts_60Hz_W	5.25
On_Mode_Power_at_300_Lux_at_100_Volts_60Hz_W	
Measured_On_Mode_Power_at_100_Volts_60Hz_W	42.87
Measured_Sleep_Mode_Power_at_100_Volts_60Hz_W	0.25
Measured_Non_Connected_Sleep_Mode_Power_at_100_Volts_60Hz_W	0.20
Measured_Off_Mode_Power_at_100_Volts_60Hz_W	0.25
[anaman_ananamananaanaana	0.20

8.0 Test Summary
8.1 Signatures

A representative sample of the product covered by this report has been evaluated and found to comply with the applicable requirements of the standards indicated in Section 1.0.

Completed by: Carl Dong Reviewed by: Jarree Jiang
Title: Engineer Title: Engineer

Signature: Signature on file

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9.0 Correlation Page F	or Multiple Listings						
		ified in this report except for model number	or and				
	which are identical to those ident	med in this report except for moder number	er ariu				
Company name.							
BASIC LISTEE	MMD Monitors & Displays Nederland B.V.						
Address Prins Bernhardplein 200, 1097 JB Amsterdam, The Netherlands							
Country	Netherland	EPA ID	1088182				
Product	Display (Professional display/sig						
		, ,					
MULTIPLE LISTEE 1	None						
Address							
Country		EPA ID					
Contact		<u> </u>					
Phone							
FAX							
Email							
Brand Name							
Trans Type							
Notes							
ASSOCIATED							
MANUFACTURER							
Address							
Country							
MULTIPLE	LISTEE 1 MODELS	BASIC LISTEE MODELS					
	Isa i isi - si i	Idea (friends france Con					
Additional model details	Model Name or Number	Identifying Information					
(Optional)							
MULTIPLE LICTEE O	None						
MULTIPLE LISTEE 2	None						
Address		LEDA ID					
Country		EPA ID					
Contact							
Phone							
FAX							
Email							
Brand Name							
Trans Type							
Notes							
ASSOCIATED							
MANUFACTURER							
Address							
Country							
MULTIPLE	LISTEE 2 MODELS	BASIC LISTEE MODELS					
	Model Name or Number	Identifying Information					
Additional madel details							
Additional model details (Optional)		, ,					

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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 Intertek

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. Dansy Xu

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.

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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 Summary The following changes are in compliance with the declaration of Section 8.1: Date/ Project Handler/ Section Description of Change Item Proj # Site ID Reviewer Carl Dong 1-Mar-2016 2 Add test specification in Description. Jarree Jiang 160300016SHA Int

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