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# **TEST REPORT**

# ERP for electronic displays COMMISSION REGULATION (EU) 2019/2021 COMMISSION DELEGATED REGULATION (EU) 2019/2013

COMMISSION DELEGATED REGULATION (EU) 2019/2013			
Report Reference No:	AIT22081705N		
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Total number of pages	25 pages		
Testing Laboratory name:	Dongguan Yaxu (AiT) Technology Limited		
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Testing location	Same as above		
Tested by (+ signature):	Dave Long		
Approved by (+ signature):	Sandy Liang		
	Shenzhen iBoard Technology Co., Ltd.		
Address:	1001, Block A, Tanglangcheng Square (West Zone), Fuguang Community, Taoyuan Street, Nanshan District, Shenzhen, Guangdong, China		
Manufacturer's name:	Same as applicant		
Address:	Same as applicant		
Factory's name	Same as applicant		
Address	Same as applicant		
Test specification:			
	COMMISSION REGULATION (EU) 2019/2021, (EU) 2021/341; COMMISSION DELEGATED REGULATION (EU) 2019/2013, (EU) 2021/340		
Test procedure:	<ul> <li>☑ EN 62087-1:2016 - Audio, video, and related equipment -</li> <li>Determination of power consumption - Part 1: General</li> <li>☑ EN IEC 62087-7:2019 - Audio, video, and related equipment -</li> <li>Determination of power consumption - Part 7: Computer monitors</li> <li>☑ EN 50564:2011 - Electrical and electronic household and office equipment - Measurement of low power consumption</li> </ul>		
Conclusion	Compliant with the above measured standards and Commission		

Regulation

Note: The test data was only valid for the received sample(s). This test report is prepared for the customer shown above and for the specific product described herein. It must not be duplicated or used in part without prior written consent from Dongguan Yaxu (AiT) Technology Limited.





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**Test Object** 

Description .....: Interactive Flat Panel Display

Brand Name .....: Iboard/StarBoard

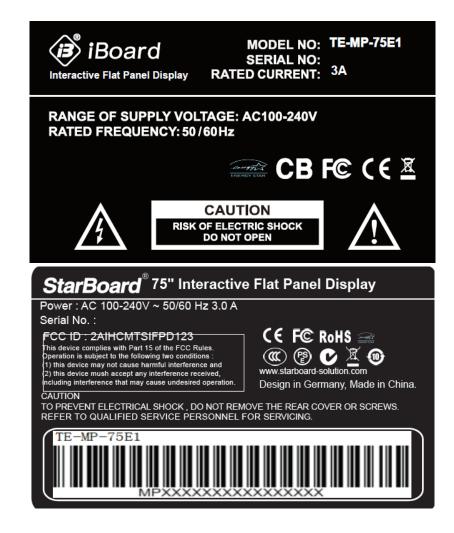
Model and/or type reference.....: TE-MP-75E1, TE-QS-75, TE-QS1H-75, TE-QS-75E1, TE-XP-75E1.

TE-YL-75E1, TE-IT-75E1, TE-DP-75E1, TE-AP-75E1, TE-MP-75

Ratings...... Input: 100-240V~, 50/60Hz, 3A

## Copy of marking plate(Main unit):

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.



- 1. The above marks are the minimum requirements required by the safety standard. For the final production, the additional marks which do not give rise to misunderstanding may be added.
- 2. Height of CE mark at least 5mm, height of WEEE mark at least 7mm, height of other marks at least 5mm, height of letters and numerals at least 2mm.
- 3. According to the EU directives which have been aligned with EU NLF (new legislative framework), both of manufacturer and importer's name and address shall be affixed on the product or, where that is not possible, on its packaging or in a document accompanying the product before the product is placed on the EU market.



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#### **Test case verdicts**

Test case does not apply to the test object...... N/A

Test item does meet the requirement...... P(ass)

Test item does meet the requirement ...... F(ail)

## Testing

Date of receipt of test item ...... 2022-08-17

#### **General remarks**

This test report shall not be reproduced except in full without the written approval of the testing laboratory.

The test results presented in this report relate only to the item tested.

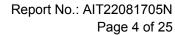
"(see remark #)" refers to a remark appended to the report.

"(see appended table)" refers to a table appended to the report.

Throughout this report a comma is used as the decimal separator.

## General product information:

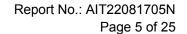
- 1. The EUT is a Interactive Flat Panel Display designed as electronic displays equipment.
- 2. All models are exactly the same except the model names.
- 3. Instructions and equipment marking related to safety is applied in the language that is acceptable in the country in which the equipment is to be sold.





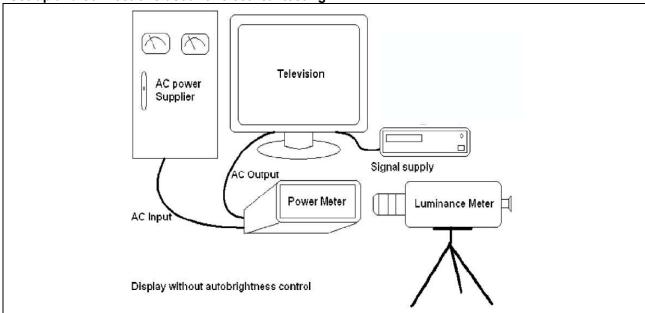
1. General Product Information

Product type	Interactive Flat Panel Display
Screen Technology	TFT-LCD
Backlight Technology	E-LED
Display resolution	3840*2160
Size ratio	16:9
Contrast Ratio	5000:1
Viewable screen (Vertical)	9.28 dm
Viewable screen (Horizontal)	16.50 dm
Viewable Screen Area	153.12 dm <sup>2</sup>
Viewable Screen Diagonal Size	75 inch=190.5 cm
Image refresh frequency rate (Hz)	60Hz
Available Interfaces	HDMI, DP, Type C, USB
Voice recognition sensor available	NO
Room presence sensor available	NO
Minimum guaranteed availability of software and firmware updates (until):	2032-08-30
Minimum guaranteed availability of spare parts (until):	2032-08-30
Minimum guaranteed product support (until):	2032-08-30
Is there ABC function ?	With ☐ Without ⊠
Is there force menu ?	With ☐ Without ⊠
Brightness for default	50%
Contrast for default	50%
Interface Tested	DP
Power supply type:	Internal
Adapter	
- Average active efficiency (%)	/
- Efficiency at low load (10%) (%)	/
- No-load power consumption (W)	
Nameplate input current for main unit	3.0A
Automatic Brightness Control	No
Automatic Brightness Control enabled	No
Volume for test	0.7W
Display panel	Maker: Shenzhen iBoard Technology Co., Ltd. Type: UV750QUB-N9D





2. Set-up and connections used for electrical testing:

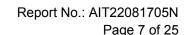




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# 3. Technical documentation

A		ELL) 0040/0004)				
	codesign requirements ((			-		
	FICIENCY REQUIREMEN		Г	<u>-</u> Р		
1. ENERGY EFFICIENCY INDEX LIMITS FOR ON-MODE The energy efficiency index (EEI) of an electronic display shall be						
calculated using the following equation:						
Calculated using	g the following equation.	_	See appended table	Р		
$EEI = \frac{(P_{measured} + 1)}{(3 \times [90 \times tanh(0,02 + 0,004 \times (A - 11)) + 4] + 3) + corr},$ See appended table						
$\frac{\Delta EI}{3 \times 90}$	$\times tanh(0.02+0.004 \times (A-$	[-11) + 4] + 3) + corr				
Where:						
A represents the screen area in dm <sup>2</sup> ;						
Pmeasured is the measured power in Watts in on mode in the						
normal configur	ation, in standard dynamic	range (SDR);				
corr is a correct	ion factor of 10 for OLED	electronic displays that				
	e ABC allowance in point E					
	ry 2023. corr shall be zero					
	electronic display shall not			Р		
	ccording to the limits in Ta	ble 1 from the dates				
indicated.						
		Table 1		P		
	EEI 1	imits for on-mode				
		PPI for all attention disculates united				
	<b>EEI</b> <sub>max</sub> for electronic displays with	EEI <sub>max</sub> for electronic displays with resolution above 2 138 400 pixels	EEImax for electronic displays with			
	resolution up to 2 138 400 pixels (HD)	(HD) and up to 8 294 400	resolution above 8 294 400 pixels (UHD-4k) and for MicroLED displays			
	(IID)	pixels (UHD-4k)	(CTID-4K) and for MicroLED displays			
1 March 2021	0,90	1,10	n.a.			
1 March 2023	0,75	0,90	0,90			
D. Alloweness		number of the CCI cold	nulation and functional			
requirements	and adjustments for the	purpose of the EEI cald	culation and functional	-		
•	2021, electronic displays sl	nall most the				
requirements lis		iaii meet tile		_		
	splays with automatic brigh	tness control (ABC)		N/A		
	a 10 % reduction in Pmea					
the following red						
	oled in the normal configura	ation of the electronic		N/A		
	sists in any other standard					
	ailable to the end user;	, ,				
	Pmeasured, in the normal	configuration, is		N/A		
	ABC disabled or if ABC ca					
ambient light co	ondition of 100 lux measure	ed at the ABC sensor;				
(c) if applicable	, the value of Pmeasured v	vith ABC disabled shall		N/A		
be equal to or g	reater than the on mode p	ower measured with				
	an ambient light condition	of 100 lux measured at				
the ABC sensor;						
(d) with ABC enabled, the measured value of the on mode power						
must decrease by 20 % or more when the ambient light condition,						
	e ABC sensor, is reduced to			<b>_</b>		
	ntrol of the display screen I			N/A		
	aracteristics when the aml	pient light condition				
	e ABC sensor changes:			N1/A		
	screen luminance at 60 lu			N/A		
	een luminance measured a			N1/A		
	screen luminance at 35 lu			N/A		
	een luminance measured a			NI/A		
	screen luminance at 12 lu			N/A		
LZO 76 OF THE SCIE	een luminance measured a	AL TOUTUX.				



Р

Р

Р

Р

Ρ

Р

Ρ

Р

See appended table

See appended table



2. Forced menu and set up menus

Electronic displays may be placed on the market with a forced menu on initial activation proposing alternative settings. Where a forced menu is provided, the normal configuration shall be set as default choice, otherwise the normal configuration shall be the out-of-the-box setting.

If the user selects a configuration other than the normal configuration and this configuration results in a higher power

onfiguration other than the normal configuration and this configuration results in a higher power demand than the normal configuration, a warning message about the likely increase in energy use shall appear and confirmation of the action shall be explicitly requested.

If the user selects a setting other than those that are part of the normal configuration and this setting results in a higher energy consumption than the normal configuration, a warning message about the likely increase in energy consumption shall appear and confirmation of the action explicitly requested.

A change by the user in a single parameter in any setting shall not trigger any change in any other energy-relevant parameter, unless unavoidable. In such a case a warning message shall appear about the change of other parameters and the confirmation of the change shall be explicitly requested.

3. Peak white luminance ratio
In the normal configuration, the peak white luminance of the electronic display in a 100 lux ambient light viewing environment shall not be less than 220 cd/m2 or, if the electronic display is primarily intended for close viewing by a single user, not less than 150 cd/m2.

If the electronic display's peak white luminance in the normal configuration is set to lower values, it shall not be less than 65 % of the peak white luminance of the display, in a 100 lux ambient light viewing environment in the brightest on mode configuration.

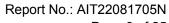
C. OFF MODE, STANDBY AND NETWORKED STANDBY MODE REQUIREMENTS

From 1 March 2021, electronic displays shall meet the requirements listed below.

1. Power demand limits other than on-mode
Electronic displays shall not exceed power demand limits in the different modes and conditions listed in Table 2:

Table 2
power demand limits other than on-mode, in Watts

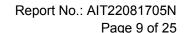
Networked standby Off mode Standby mode mode Maximum limits 0,30 0,50 2,00 Allowances for additional functions when present and enabled Status display 0,0 0,20 0,20 Deactivation using room presence detection 0.0 0,50 0.50 Touch functionality, if usable for activation 0,0 1,00 1.00 HiNA function 0,0 0,0 4,00 Total maximum power demand with all additional functions when 0.30 7.70 2.20 present and enabled





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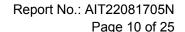
	T		1
Operating mode	Measurement (W)	Limit (W)	-
Off mode	See appended table		N/A
Standby mode	See appended table		Р
Networked standby mod	e See appended table		N/A
2. Availability of off, standby and network	vorked standby modes		Р
Electronic displays shall provide off m networked standby mode or other mo applicable power demand requiremen	des which do not exceed the		Р
The configuration menu, instruction m documentation, if any, shall refer to o networked standby mode using those	ff mode, standby mode or		Р
Automatic switch to off mode and/or smode which does not exceed the apprequirements for standby mode shall for networked displays where the netwhen in on mode.	licable power demand be set as default, including		Р
Networked standby mode shall be disconfiguration' of a networked television prompted to confirm the activation of needed for a chosen remotely activate able to disable it.	on. The end user shall be networked standby, if it is		N/A
Networked electronic displays shall of for standby mode when networked st			Р
3. Automatic standby in televisions			N/A
(a) Televisions shall provide a power enabled as delivered by the manufact following the last user interaction, shall on mode into standby mode or netwo another mode which does not exceed demand requirements respectively for standby mode. Before such automatic show, for at least 20 seconds, an aler of the impending switch, with possibil cancelling it.	turer that, within 4 hours all switch the television from rked standby mode or I the applicable power r standby or networked c switch, televisions shall t message warning the user		N/A
(b) If the television provides a function shorten, extend or disable the 4-hour transitions detailed in (a), a warning notential increase in energy use and setting must be requested when an eperiod or disabling is selected.	period for automatic mode nessage shall appear about a a confirmation of the new		N/A
(c) If the television is equipped with a automatic transition from on mode intapplies if no presence is detected for	o any mode as detailed in (a)		N/A
4. Automatic standby in displays othe	r than televisions		Р





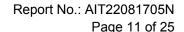
components, speakers;

Electronic displays other than televisions, with various selectable Ρ input sources shall switch, as configured in the normal configuration, into standby mode, networked standby mode or another mode which does not exceed the applicable power demand requirements respectively for standby or networked standby mode when no input is detected by any input source for over 10 seconds and, for digital interactive whiteboards and for broadcast displays, for over 60 minutes. Before triggering such a switch, a warning message shall be Ρ displayed and the switch completed within 10 minutes. D. MATERIAL EFFICIENCY REQUIREMENTS From 1 March 2021, electronic displays shall meet the requirements indicated below. 1. Design for dismantling, recycling and recovery N/A Manufacturers, importers or their authorised representatives shall N/A ensure that joining, fastening or sealing techniques do not prevent the removal, using commonly available tools, of the components indicated in point 1 of Annex VII of Directive 2012/19/EU on WEEE or in Article 11 of Directive 2006/66/EC of the European Parliament and of the Council (1) on batteries and accumulators and waste batteries and accumulators, when present. Manufacturers, importers or their authorised representatives shall, N/A without prejudice to point 1 of Article 15 of Directive 2012/19/EU. make available, on a free-access website, the dismantling information needed to access any of the products components referred to in point 1 of Annex VII of Directive 2012/19/EU. This dismantling information shall include the sequence of N/A dismantling steps, tools or technologies needed to access the targeted components. The end of life information shall be available until at least 15 years N/A after the placing on the market of the last unit of a product model. 2. Marking of plastic components Р Plastic components heavier than 50 g: Ρ (a) Shall be marked by specifying the type of polymer with the Р appropriate standard symbols or abbreviated terms set between the punctuation marks '>' and '<' as specified in available standards. The marking shall be legible. Plastic components are exempt from marking requirements in the Ρ following circumstances: (i) the marking is not possible because of the shape or size; Р (ii) the marking would impact on the performance or functionality Ρ of the plastic component; and (iii) marking is technically not possible because of the molding Р method. For the following plastic components no marking is required: (i) packaging, tape, labels and stretch wraps; Р (ii) wiring, cables and connectors, rubber parts and anywhere not Р enough appropriate surface area is available for the marking to be of a legible size; (iii) PCB assemblies, PMMA boards, optical components, Р electrostatic discharge components, electromagnetic interference





(iv) transparent parts where the marking would obstruct the Р function of the part in question. (b) Components containing flame retardants shall additionally be Ρ marked with the abbreviated term of the polymer followed by hyphen, then the symbol 'FR' followed by the code number of the flame retardant in parentheses. The marking on the enclosure and stand components shall be clearly visible and readable. 3. Cadmium logo Р Electronic displays with a screen panel in which concentration Cadmium free values of Cadmium (Cd) by weight in homogeneous materials exceed 0,01 % as defined in Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment, shall be labelled with the 'Cadmium inside' logo. The logo shall be clearly visible durable, legible and indelible. The logo shall be in the form of the following graphic: Cadmium inside Cadmium free 0,02 The dimension of 'a' shall be greater than 9 mm and the typeface to be used is 'Gill Sans'. An additional 'Cadmium inside' logo shall be firmly attached internally on the display panel or molded in a position clearly visible to workers once the external back cover bearing the external logo is removed. A 'Cadmium free' logo shall be used if concentration values of Cadmium (Cd) by weight in any homogeneous material part of the display do not exceed 0,01 % as defined in Directive 2011/65/EU. 4. Halogenated flame retardants The use of halogenated flame retardants is not allowed in the Р enclosure and stand of electronic displays. 5. Design for repair and reuse Ρ (a) Availability of spare parts: Ρ (1) manufacturers, importers or authorised representatives of electronic displays shall make available to professional repairers at least the following spare parts: internal power supply, connectors to connect external equipment (cable, antenna, USB, DVD and Blue-Ray), capacitors, batteries and accumulators, DVD/Blue-Ray module if applicable and HD/SSD module if applicable for a minimum period of seven years after placing the last unit of the model on the market; (2) manufacturers, importers or authorised representatives of Ρ electronic displays shall make available to professional repairers and end-users at least the following spare parts: external power supply and remote control for a minimum period of seven years after placing the last unit of the model on the market; (3) manufacturers shall ensure that these spare parts can be Ρ replaced with the use of commonly available tools and without permanent damage to the appliance;

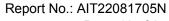




(4) the list of spare parts concerned by point 1 and the procedure Р for ordering them shall be publicly available on the free access website of the manufacturer, importer or authorised representative, at the latest two years after the placing on the market of the first unit of a model and until the end of the period of availability of these spare parts; and (5) the list of spare parts concerned by point 2 and the procedure Р for ordering them and the repair instructions shall be publicly available on the manufacturer's, the importer's or authorised representative's free access website, at the moment of the placing on the market of the first unit of a model and until the end of the period of availability of these spare parts. (b) Access to repair and maintenance information Ρ After a period of two years after the placing on the market of the Р first unit of a model or of an equivalent model, and until the end of the period mentioned under (a), the manufacturer, importer or authorised representative shall provide access to the appliance repair and maintenance information to professional repairers in the following conditions: (1) the manufacturer's, importer's or authorised representative's Р website shall indicate the process for professional repairers to register for access to information; to accept such a request, manufacturers, importers or authorised representative may require the professional repairer to demonstrate that: (i) the professional repairer has the technical competence to repair electronic displays and complies with the applicable regulations for repairers of electrical equipment in the Member States where it operates. Reference to an official registration system as professional repairer, where such system exists in the Member States concerned, shall be accepted as proof of compliance with (ii) the professional repairer is covered by insurance covering Р liabilities resulting from its activity, regardless of whether this is required by the Member State; (2) the manufacturers, importers or authorised representatives Ρ shall accept or refuse the registration within 5 working days from the date of request by the professional repairer; (3) manufacturers, importers or authorised representatives may charge reasonable and proportionate fees for access to the repair and maintenance information or for receiving regular updates. A fee is reasonable if it does not discourage access by failing to take into account the extent to which the professional repairer uses the information. Once registered, a professional repairer shall have access to the Р requested repair and maintenance information within one working day after requesting it. The available repair and maintenance information shall include: the unequivocal appliance identification: Ρ - a disassembly map or exploded view; Р - list of necessary repair and test equipment; Ρ - component and diagnosis information (such as minimum and Р maximum theoretical values for measurements); wiring and connection diagrams; Ρ

- diagnostic fault and error codes (including manufacturer-specific

codes, where applicable); and





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- data records of reported failure incidents stored on the electronic display (where applicable).	Р
(c) Maximum delivery time of spare parts	Р
(1) during the period mentioned under point 5(a)(1) and point 5(a)(2), the manufacturer, importer or authorised representatives shall ensure the delivery of the spare parts for electronic displays within 15 working days after having received the order;	Р
(2) in the case of spare parts available only to professional repairers, this availability may be limited to professional repairers registered in accordance with point (b).	Р
E. INFORMATION AVAILABILITY REQUIREMENTS	Р
From 1 March 2021, the product manufacturer, importer or authorised representative shall make available the information set out below when placing on the market the first unit of a model or of an equivalent model.	Р
The information shall be provided free of charge to third parties dealing with professional repair and reuse of electronic displays (including third party maintenance actors, brokers and spare parts providers).	Р
Availability of software and firmware updates	Р
(a) The latest available version of the firmware shall be made available for a minimum period of eight years after the placing on the market of the last unit of a certain product model, free of charge or at a fair, transparent and non-discriminatory cost. The latest available security update to the firmware shall be made available until at least eight years after the placing on the market of the last product of a certain product model, free of charge.	Р
(b) Information on the minimum guaranteed availability of software and firmware updates, availability of spare parts and product support shall be indicated in the product information sheet as from Annex V of Regulation (EU) 2019/2013.	Р

Annex II Energ	gy efficiency classes ((EU) 2019/2013)		-
B. Energy Efficiend	cy Index (EEllabel)		-
The Energy Efficie	ncy Index (EEllabel) of the electronic display	See appended table	-
shall be calculated	using the following equation:		
EFI -	$(P_{measured} + 1)$		-
$EEI_{label} = {(3)}$	$\times [90 \times tanh(0,025+0,0035 \times (A-1))]$	(1) + 4 + 3 + corr	
where:		± 4	
A represents the vie	wing surface area in dm²;		
P <sub>measured</sub> is the measu	red power in on mode in Watts in the normal configura	tion and set as indicated in Table 2;	
corri is a correction i	factor set as indicated in Table 3.		

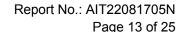
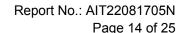




Table 2 Measurement of Pmeasured Dynamic Range level  $P_{measured}$ Power demand in Watts (W) in on mode, measured when displaying Standard Dynamic Range (SDR): Pmeasured<sub>SDR</sub> standardised test sequences of moving picture from dynamic broadcast content. Where allowances are applicable according to part C of this Annex, they should be deducted from Pmeasured. Power demand in Watts (W) in on mode, measured as for Pmeasured<sub>SDR</sub> High Dynamic Range (HDR) but with the HDR functionality activated by metadata in the standard-Pmeasured<sub>HDR</sub> ised HDR test sequences. Where allowances are applicable according to part C of this Annex, they should be deducted from  $P_{measured}$ Table 3 corr, value Electronic Display type corr<sub>l</sub> value 0.0 Television 0,0 Monitor 0,00062\*(lum-500)\*A Digital signage where 'lum' is the peak white luminance, in cd/m2, of the brightest on mode configuration of the electronic display and A is the screen area in  $dm^2$ C. Allowances and adjustments for the purpose of the EEllabel Electronic displays with automatic brightness control (ABC) shall N/A qualify for a 10 % reduction in Pmeasured if they meet all of the following requirements: (a) ABC is enabled in the normal configuration of the electronic N/A display and persists in any other standard dynamic range configuration available to the end user; (b) the value of Pmeasured, in the normal configuration, is N/A measured, with ABC disabled or if ABC cannot be disabled, in an ambient light condition of 100 lux measured at the ABC sensor; N/A (c) if applicable, the value of Pmeasured with ABC disabled shall be equal to or greater than the on mode power measured with ABC enabled in an ambient light condition of 100 lux measured at the ABC sensor; (d) with ABC enabled, the measured value of the on mode power N/A must decrease by 20 % or more when the ambient light condition, measured at the ABC sensor, is reduced from 100 lux to 12 lux; (e) the ABC control of the display screen luminance meets all of N/A the following characteristics when the ambient light condition measured at the ABC sensor changes: - the measured screen luminance at 60 lux is between 65 % and N/A 95 % of the screen luminance measured at 100 lux; - the measured screen luminance at 35 lux is between 50 % and N/A 80 % of the screen luminance measured at 100 lux; - the measured screen luminance at 12 lux is between 35 % and N/A 70 % of the screen luminance measured at 100 lux.





Measurement methods and calculations ((EU) 2019/2013) Annex IV Р 1. MEASUREMENTS OF ON MODE POWER DEMAND See appended table Measurements of the on mode power demand shall fulfil all of the following general conditions: (a) electronic displays shall be measured in the normal Ρ configuration; (b) measurements shall be made at an ambient temperature of Ρ 23 °C +/- 5 °C; (c) measurements shall be made using a dynamic broadcast video Р signal test loops representing typical broadcast content for electronic displays in standard dynamic range (SDR). For the HDR measurement the electronic display must automatically and correctly respond to the HDR metadata in the test loop. The measurement shall be the average power consumed over 10 consecutive minutes; (d) measurements shall be made after the electronic display has Р been in the off-mode or, if an off-mode is not available, in standby mode for a minimum of 1 hour immediately followed by a minimum of 1 hour in the on mode and shall be completed before a maximum of 3 hours in on-mode. The relevant video signal shall be displayed during the entire on mode duration. For electronic displays that are known to stabilise within 1 hour, these durations may be reduced if the resulting measurement can be shown to be within 2 % of the results that would otherwise be achieved using the durations described here: (e) where ABC is available, measurements shall be made with it N/A switched off. If ABC cannot be switched off, then the measurements shall be performed in an ambient light condition of 100 lux measured at the ABC sensor. 2. MEASUREMENTS OF PEAK WHITE LUMINANCE Р Measurements of the peak white luminance shall be made: Р (a) with a luminance meter, detecting that portion of the screen exhibiting a full (100 %) white image, which is part of a 'full screen test' pattern not exceeding the average picture level (APL) point where any power limiting or other irregularity occurs; (b) without disturbing the luminance meter's detection point on the Ρ electronic display whilst switching between the normal configuration and the brightest on mode configuration.

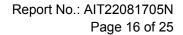
Annex VI Technical documentation ((EU) 2019/2013)		-
The technical documentation referred to in point 1(d) of Article 3	See below	Р
shall include:		
(1) identification data (general description of the model):		-
(a) trademark and model identifier;	See the label	Р
(b) supplier's name, address, registered trade name;	See the label	Р
(2) references to the harmonised standards applied, other measurement standards and specifications used in measuring the	See page 1	Р
technical parameters and calculations performed;		
(3) specific precautions to be taken when the model is assembled,		Р
installed and tested;		
(4) a list of all equivalent models, including model identifiers;		Р
(5) measured technical parameters of the model and calculations performed with the measured parameters as listed in Table 5;		Р
General	See appended table	-
ambient temperature;		-
test voltage in V and frequency in Hz;		-
total harmonic distortion of the electricity supply system;		-





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For on-mode:	See appended table	_
Peak white luminance of the brightest on mode configuration	oee appended table	- P
Peak white luminance of the prightest of mode corniguration		P
		P
Peak white luminance ratio (calculated)		
For APD	A section	- -
Duration of the on mode condition, before the electronic display	1 min	Р
reaches automatically standby, or off mode, or another condition		
which does not exceed the applicable power consumption		
requirements for off mode and/or standby mode.		
For televisions: the measured value of the time before the		N/A
television automatically reaches standby, or off-mode, or another		
condition which does not exceed the applicable power		
consumption requirements for off-mode and/or standby-mode		
following the last user interaction;		
For televisions equipped with room presence sensor: the		N/A
measured value of the time before the television automatically		
reaches standby, or off-mode, or another condition which does not		
exceed the applicable power consumption requirements for off		
mode and/or standby mode when no presence is detected;		
Other electronic displays than televisions and broadcast displays:		N/A
The measured value of the time before the electronic display		
automatically reaches standby, or off-mode, or another condition		
which does not exceed the applicable power consumption		
requirements for off mode and/or standby mode when no input is		
detected;		
For ABC		_
Average on mode power demand of the electronic display at an		N/A
ambient light intensity, measured at the ABC sensor of the		
electronic display, of 100 lux and 12 lux.		
Percentage of power reduction due to ABC action between the 100		N/A
lux and 12 lux ambient light conditions.		14/7
Display peak white luminance at each of the following ambient light		N/A
intensities measured at the ABC sensor of the electronic display,		IN//
100 lux, 60 lux, 35 lux, 12 lux.		
Measured on mode power at 100 lux ambient light at the ABC		N/A
sensor		IN/A
Measured on mode power at 12 lux ambient light at the ABC		N/A
		IN/A
The measured screen luminance at 60 lux ambient light at the ABC		N/A
		IN/A
Sensor		NI/A
The measured screen luminance at 35 lux ambient at the ABC		N/A
Sensor The many and agree huminance at 42 hay embient light at the ADC		N1/A
The measured screen luminance at 12 lux ambient light at the ABC		N/A
sensor		
(6) Additional information requirements:		Р
(a) input terminal for the audio and video test signals used for	DP	Р
testing;		
(b) information and documentation on the instrumentation, set-up		Р
and circuits used for electrical testing;		
(c) any other testing condition not described or determined in point		N/A
(b);		<u> </u>



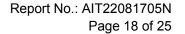


(i) the characteristics of the dynamic broadcast-content video signal representing typical broadcast TV content for the HDR dynamic broadcast content video signal the electronic display must be automatically switched to HDR mode by the HDR metadata of that signal;  (iii) the sequence of steps for achieving a stable condition with respect to power demand level; and the picture settings used for the brightest peak white luminance measurement and the test pattern for the video signal used for the measurement.  (e) For standby and off mode:  (i) the measurement method used; (ii) description of how the mode was selected or programmed including any enhanced reactivation functions; and  (iii) sequence of events to reach the condition where the electronic display automatically changes mode.  (f) For electronic display swith a designated computer signal interface:  (i) confirmation that the electronic display prioritises the computer display power management protocols set out in point 6.2.3 of Annex II of Commission Regulation (EU) No 617/2013 (1). Any deviation from the protocols should be reported;  (g) For the networked electronic displays only;  (ii) whether the electronic display qualifies as electronic display with HINA functionality; and (iii) information whether networked electronic display provides functionality allowing the power management function and/or the end-user to switch the electronic display by ordination is provided the electronic display be power management function and/or the end-user to switch the electronic display by mode including enhanced reactivation function power allowance where applicable  (n) For each type of network port:  (i) the default time (mm.ss) after which the power management function, switches the display into a condition providing networked standby; and (iii) fire minamination whether in electronic display by into a condition providing networked standby; and (ii) the tringer to be used to reactivate the electronic display.  (7) where the information included in the technical					
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details of such calculation, the assessment undertaken by					
suppliers to verify the accuracy of the calculation and, where					
appropriate, the declaration of identity between the models of different suppliers; and					
Dongguan Yaxu (AiT) Technology Lim	uiiie	inenii sup	pplicio, allu		



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(8) the contact details of the person empowered to bind the	Р
supplier, if not included in the technical information uploaded into	
the database, shall be made available, on request, to market	
surveillance authorities or to the Commission for carrying out their	
tasks under this Regulation.	





# **Appended table:**

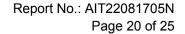
Sumary of test results:				
Test Item	Input Voltage	Measured/calculated Value	Limit	
Off mode	230VAC, 50Hz	0W	≤0.3W	
Standby mode	230VAC, 50Hz	0.27W	≤0.5W	
Networked standby mode	230VAC, 50Hz	N/A		
On mode (SDR)	230VAC, 50Hz	88.5W		
On mode (HDR)	230VAC, 50Hz	N/A		
EEI		0.821	≤0.9	
Energy efficiency class, Energy E	fficiency Index (E	EI <sub>label</sub> )		
A			EEI <sub>label</sub> < 0.30	
В			0.30 ≤ EEI <sub>label</sub> < 0.40	
С			0.40 ≤ EEI <sub>label</sub> < 0.50	
D			0.50 ≤ EEI <sub>label</sub> < 0.60	
E			0.60 ≤ EEI <sub>label</sub> < 0.75	
F		0.896	0.75 ≤ EEI <sub>label</sub> < 0.90	
G			0.90 ≤ EEI <sub>label</sub>	
Energy efficiency class: F;	/lanufacturer decla	are: /	l	
Peak white luminance of the brightest on mode configuration	230VAC, 50Hz	180.2 cd/m <sup>2</sup>		
Peak white luminance of the normal configuration	230VAC, 50Hz	180.2 cd/m <sup>2</sup>		
Peak white luminance ratio	230VAC, 50Hz	100%		
Peak white luminance of the brightest on measured	230VAC, 50Hz	501.0 cd/m <sup>2</sup>		
Ambient temperature: 24.9°C; Total harmonic distortion of the electricity supply system: 0.68%.				



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4. Test equipment

Asset No.	Equipment Description	Manufacturer	Туре	Scale & Unit	Calibration Last Date	Calibration Due Date
AiT-F01316	Power meter	YOKOGAWA	WT310E	600V, 20A	2021-09-14	2022-09-13
AiT-F01179	Tape Measure	Deli	DL9005	5.0M	2020-09-03	2025-09-02
AiT-F01178	Humidity & Temp. Recorder	KTJ	TA218B	0-50°C, 0%-75%RH	2021-08-31	2022-08-30
AiT-F01010	AC Power Soure	APE	AFR-220	0-300Vac 50/60Hz 20KVA	-	-
AiT-F01207	Stopwatch	CHAOSUDA	PC2001	Full	2021-09-01	2022-08-31
AiT-F01213	Lumen meter	Xuan Bao	LX1010B	0~20000 Lux	2021-08-31	2022-08-30
AiT-F01315	Digital anemometer	Shenzhen Jumaoyuan Science And Technology Co., Ltd.	GM8901	0-45m/s 0-45°C	2021-09-14	2022-09-13
AiT-F01288	Luminance meter	Konica Minolta	CA-210	0.10-1000cd/m <sup>2</sup>	2021-08-31	2022-08-30





# 5. Photos



Photo 1 overall view



Photo 2 back view

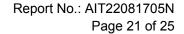








Photo 3 terminals view

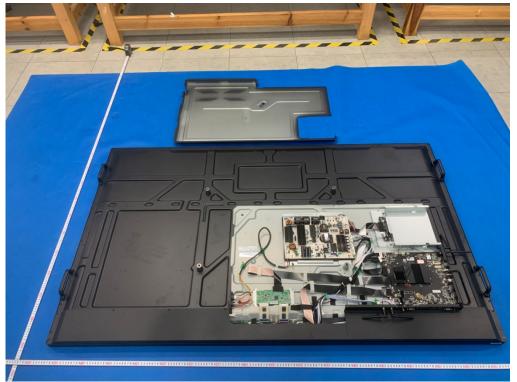


Photo 4 internal view

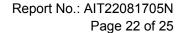






Photo 5 internal view



Photo 6 power board top view

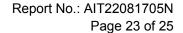


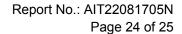




Photo 7 power board bottom view



Photo 8 main board top view





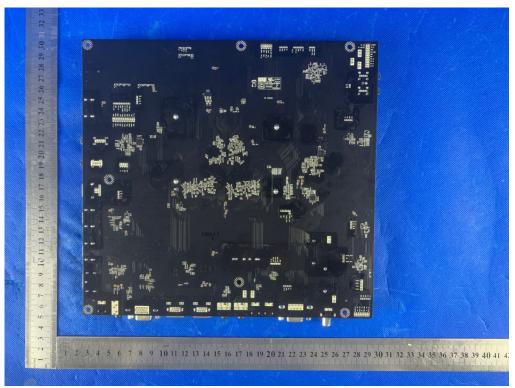
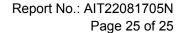


Photo 9 main board bottom view



Photo 10 signal board top view





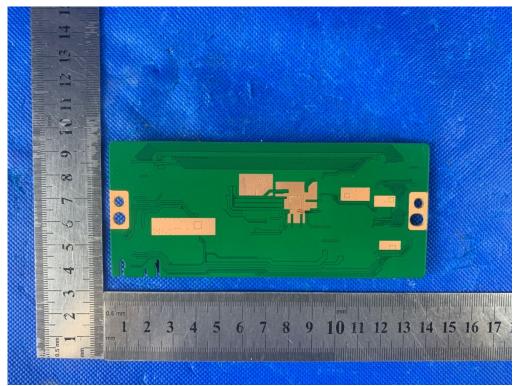


Photo 11 signal board bottom view

\*\*\*\*\*End of Report\*\*\*\*\*