

TEST REPORT

Ecodesign requirements and energy labelling requirements for electronic displays

Report Reference No. SHEE220900024651

Tested by (name + signature)..... Emilien Li

Sura Jiang

Approved by (+ signature):

Total number of pages 28 pages

Testing Laboratory...... SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

China.

Applicant's name ZHEJIANG DAHUA VISION TECHNOLOGY CO., LTD.

Test specification:

Test procedure.....: ⊠ COMMISSION REGULATION (EU) 2019/2021 + (EU)

2021/341

☑ COMMISSION DELEGATED REGULATION (EU) 2019/2013 +

(EU) 2021/340

COMMISSION REGULATION (EU) 2021/341

☑ EN 62087-7: 2019 used in conjunction with EN 62087-1:2016

☑ EN 50564:2011; ☑ EN 50563:2018+A1:2020

Non-standard test method...... None







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Test item description	LED Monitor
Type of electronic displays	\square Televisions; \boxtimes Monitors; \square Signage displays; \square other
Trademark:	(a)hua TECHNOLOGY
Model/Type reference	DHI-LM24-B200S, DH-LM24-B200S, LM24-B200S, ***-LM24-*****, LM24-***** ("*"=A-Z, a-z, 0-9 or blank)
Ratings	Monitor: 12 V d. c., 2,5A, Class III
	Adaptor: 100-240V a.c.,50/60Hz, 2,5A, Class II
Supplier's name and address	N/A
Manufacturer's name and address:	Same as applicant
Factory's name and address	1. ZHEJIANG DAHUA VISION TECHNOLOGY CO., LTD.
	No.1199, Bin'an Road, Binjiang District, Hangzhou, P.R. China
	2. ZHEJIANG DAHUA ZHILIAN CO., LTD.
	No.28, Dongqiao Road, Dongzhou Street, Fuyang District, Hangzhou, P.R. China.
Test item particulars	
Test item particulars: Classification of installation and use:	□ Desk-top; □ Wall mounted;
Classification of installation and use:	
Classification of installation and use: Supply Connection:	EU plug
Classification of installation and use: Supply Connection: Networked electronic displays:	EU plug No No
Classification of installation and use: Supply Connection: Networked electronic displays: Availability of HiNA functionality:	EU plug No No Yes
Classification of installation and use: Supply Connection: Networked electronic displays: Availability of HiNA functionality: Availability of easily visible switch:	EU plug No No Yes Yes
Classification of installation and use: Supply Connection: Networked electronic displays: Availability of HiNA functionality: Availability of easily visible switch: Availability of off mode	EU plug No No Yes Yes
Classification of installation and use: Supply Connection: Networked electronic displays: Availability of HiNA functionality: Availability of easily visible switch: Availability of off mode: Availability of standby mode: Availability of display function in standby	EU plug No No Yes Yes Yes No
Classification of installation and use: Supply Connection	EU plug No No Yes Yes Yes No
Classification of installation and use: Supply Connection	EU plug No No No Yes Yes Yes No No



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Product information:	
Visible screen area (dm²) (declared):	15,6 dm ²
Screen diagonal (cm) (declared):	60,5 cm
Screen diagonal (inches) (declared):	24 inches
Nominal aspect ratio:	16:9
Resolution (H X V, pixels) (declared):	1920 x 1080
Image refresh frequency rate (default).:	60 Hz(VGA), 75 Hz(HDMI)
Screen technology	LED LCD
Availability of Automatic Brightness Control (ABC):	No
ABC enabled by default:	N/A
Availability of touch functionality:	No
Availability of room presence sensor:	No
Availability of voice recognition sensor.:	No
Availability of High Dynamic Range (HDR)	No
Power supply type:	☐ internal; ☐ Standardised external
Minimum guaranteed availability of software and firmware updates (from the date of end of the placement on the market):	8 years
Minimum guaranteed availability of spare parts (from the date of end of the placement on the market):	7 years
Minimum guaranteed product support (from the date of end of the placement on the market:	15 years
Minimum duration of the general guarantee offered by the supplier:	3 years



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Summary of testing:

☐ The sample(s) tested complies with the requirements of COMMISSION REGULATION (EU) 2019/2021 + (EU) 2021/341;

☐ The sample(s) tested complies with the requirements of COMMISSION DELEGATED REGULATION (EU) 2019/2013 + (EU) 2021/340

When determining the test conclusion, the Measurement Uncertainty of test has been considered.

For On mode:

Measurements of power of 0.50 W or greater was made with an uncertainty of less than or equal to 2 % at the 95 % confidence level.

Measurements of power of less than 0.50 W was made with an uncertainty of less than or equal to 0.01 W at the 95 % confidence level.

For standby mode:

The maximum permitted uncertainty of measurement depends on the size of the load and the characteristics of the load. The key characteristic of the load used to determine the maximum permitted uncertainty is the Maximum Current Ratio (MCR), which is calculated as follows:

$$Maximum Current Ratio (MCR) = \frac{Crest Factor (CF)}{Power Factor (PF)}$$

where

- the Crest Factor (CF) is the measured peak current drawn by the product divided by the measured r.m.s. current drawn by the product;
- the Power Factor (PF) is a characteristic of the power consumed by the product. It is the ratio of the measured real power to the measured apparent power.

a) Permitted uncertainty for values of MCR ≤10

For measured power values of greater than or equal to 1.0 W, the maximum permitted relative uncertainty introduced by the power measurement equipment, U_{mr} , shall be equal to or less than 2 % of the measured power value at the 95 % confidence level.

For measured power values of less than 1.0 W, the maximum permitted absolute uncertainty introduced by the power measurement equipment, U_{ma} , shall be equal to or less than 0.02 W at the 95 % confidence level.

b) Permitted uncertainty for values of MCR >10

The value of U_{pc} shall be determined using the following equation:

$$U_{pc} = 0.02 \times [1 + (0.08 \times \{MCR - 10\})]$$

where U_{pc} is the maximum permitted relative uncertainty for cases where the MCR is > 10.

For measured power values of greater than or equal to 1.0 W, the maximum permitted relative uncertainty introduced by the power measurement equipment shall be equal to or less than U_{pc} at the 95 % confidence level.

For measured power values of less than 1.0 W, the permitted absolute uncertainty shall be the greater of U_{ma} (0.02 W) or U_{cc} when expressed as an absolute uncertainty in W (U_{cc} · measured value) at the 95 %



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confidence level.

Copy of marking plate

Marking Plate

LED Monitor

DHI-LM24-B200S DC12V==2.5A

P/N: 1.0.99.12.10180



S/N: XXXXX MADE IN CHINA



CEF©





ZHEJIANG DAHUA VISION TECHNOLOGY CO.,LTD. No.1199.Bin'an Road, Binjiang District,Hangzhou,P.R.China

Remark: the above marking plate is only a draft artwork to show the product ratings and model No. and the height of CE logo shall not be less than 5 mm, and the height of WEEE logo shall not be less than 7 mm. Marking plate for other list models is of the same pattern.



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Possible test case verdicts:

- test object does meet the requirement P (Pass)

- test object does not meet the requirement..... F (Fail)

Testing:

General remarks:

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

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"(see Enclosure #)" refers to additional information appended to the report.

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



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General product information:		
Power Source	Powered by external power supply	
Feature	24' LED monitor with interfaces as audio in, HDMI, VGA	
Power board / main board	M2513A-HVA3、M2513AR-HVA3	
Panel	M23853***("*"=A-Z, a-z, 0-9 or blank)	
Package	AC cable, HDMI cable, Power adaptor, Instruction manual	
Model difference (if applicable)	Except model reference due to market or customer propose, no affect to energy consumption.	

External power supply (non-standardised and include in the product box) (if applicable)			
Model name	YD-BG1200250EU-6A		
Input voltage	100-240V a.c.	Output voltage	12V
Input current (max)	1,5A	Output current (max)	2,5A
External standardized power supply (or suitable one if not include in the product box) (if applicable)			
Standard name or list			
Required output voltage			
Required delivered current (minimum)			
Required current frequency			



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	COMMISSION REGULATION (EU) 2019/2021	I + (EU) 2021/341	
	ANNEX II Ecodesign requireme	ents	
CI.	Requirement-Test	Result-Remark	Verdict
A. EN	IERGY EFFICIENCY REQUIREMENTS		
1.	Energy Efficiency Index limits for On-mode		
	Energy Efficiency Index (EEI):	See appended table 4	
	$EEI = \frac{(P_{measured} + 1)}{(3 \times [90 \times tanh(0,02 + 0,004 \times (A - 11)) + 4] + 3) + corr}$		
	A represents the screen area in dm ² ;		
	P _{measured} is the measured power in Watts in on mode in the normal configuration, in standard dynamic range (SDR); corr is a correction factor of 10 for OLED electronic displays that do not apply the ABC allowance in point B (1). This shall apply until 28 February 2023. corr shall be zero in all other cases. The declared values of the on mode power (P _{measured}) and screen area (A) as listed in Table 5 of Annex VI of delegated Regulation 2019/2013 shall be used for the calculation of EEI		
	From 1 March 2021		
	EEI _{max} for electronic displays with resolution up to 2 138 400 pixels (HD): EEI _{max} ≤ 0.90;	See appended table 4	Р
	EEI _{max} for electronic displays with resolution above 2 138 400 pixels (HD) and up to 8 294 400 pixels (UHD): EEI _{max} ≤ 1.10		N/A
	From 1 March 2023		
	EEI _{max} for electronic displays with resolution up to 2 138 400 pixels (HD): EEI _{max} ≤ 0.75;	See appended table 4	Р
	EEI _{max} for electronic displays with resolution above 2 138 400 pixels (HD) and up to 8 294 400 pixels (UHD): EEI _{max} ≤ 0.90;		N/A
	EEI _{max} for electronic displays with resolution above 8 294 400 pixels (UHD) and for MicroLED displays: EEI _{max} ≤ 0.90		N/A
	LOWANCES AND ADJUSTMENTS FOR THE PURPOSE OF CTIONAL REQUIREMENTS (From 1 March 2021)	THE EEI CALCULATION AN	ID
1.	Electronic displays with automatic brightness control (ABC)		
	Electronic displays qualify for a 10 % reduction in P _{measured} , if they meet all of the following requirements:	Without ABC feature	
1(a).	ABC is enabled in the normal configuration of the electronic display and persists in any other standard dynamic range configuration available to the end-user;		N/A



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COMMISSION REGULATION (EU) 2019/2021 + (EU) 2021/341 **ANNEX II Ecodesign requirements Requirement-Test** Verdict CI. **Result-Remark** 1(b). the value of P_{measured}, 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 the value of P_{measured} with ABC disabled, if applicable, shall 1(c). N/A 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 1(d). with ABC enabled, the measured value of the on mode N/A power must decrease by 20 % or more when the ambient light condition, measured at the ABC sensor, is reduced from 100 lux to 12 lux; and the ABC control of the display screen luminance meets all of 1(e). 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 95 % of the screen luminance measured at the measured screen luminance at 35 lux is between 50 % and 80 % of the screen luminance measured at 100 lux: and the measured screen luminance at 12 lux is between 35 % and 70 % of the screen luminance measured at 100 lux. 2. Forced menu and set up menu Electronic displays may be placed on the market with a Default choice of forced forced menu on initial activation proposing alternative menu. settings. Where a forced menu is provided, the normal ⊠Out-of-the-box setting 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 N/A 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 Warning message: the normal configuration and this setting results in a higher "This change will result in a energy consumption than the normal configuration, a higher energy consumption, warning message about the likely increase in energy do you want to set it" consumption shall appear and confirmation of the action explicitly requested.



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	COMMISSION REC	GULATION (EU) 2019/202	1 + (EU) 2021/341	
	ANNI	EX II Ecodes	sign requirem	ents	
CI.	Requirement-Test			Result-Remark	Verdict
	A change by the user in a single p shall not trigger any change in any parameter, unless unavoidable. In message shall appear about the c and the confirmation of the change requested.	y other energ n such a case change of oth	y-relevant e a warning er parameters	Or equivalent text	
3.	Peak white luminance ratio				
	In the normal configuration, the perelectronic display in a 100 lux ambienvironment shall not be less than electronic display is primarily intersingle user, not less than 150 cd/r	pient light vie n 220 cd/m² c nded for close m².	wing or, if the e viewing by a		Р
	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.				
	FF MODE, STANDBY MODE AND N h 2021)	NETWORKE	D STANDBY I	MODE REQUIREMENTS (F	From 1
1.	Power demand limits other than o	n-mode			
	Power consumption in any off-mode condition shall not exceed 0.30 Watts			See appended table 4	Р
	Electronic displays shall not exceed power demand limits in standby/networked standby modes and conditions listed in Table 2				Р
		Standby mode (W)	Networked standby mode (W)		
	Maximum limit	0.50	2.00		
	Allowances for additional functions when present and enable				
	Status display	0.20	0.20		
	Deactivation using room presence detection	0.50	0.50		
	Touch functionality, if usable for activation	1.00	1.00		
	HiNA function	00	4.00		
	Total maximum power demand with all additional functions when present and enable	2.20	7.70		
2.	Availability of off, standby and net	worked stand	dby mode	•	



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COMMISSION REGULATION (EU) 2019/2021 + (EU) 2021/341 **ANNEX II Ecodesign requirements** CI. **Requirement-Test** Verdict **Result-Remark** Electronic displays shall provide off mode or standby mode Off mode or a networked standby mode or other modes which do not Standby mode exceed the applicable power demand requirements for standby mode The configuration menu, instruction manuals and other documentation, if any, shall refer to off mode, standby mode or networked standby mode using those terms Automatic switch to off mode and/or standby mode and/or P See appended table 4 another mode which does not exceed the applicable power demand requirements for standby mode shall be set as default, including for networked displays where the network interface is enabled when in on mode Networked standby mode shall be disabled in 'normal Not applicable to monitor N/A configuration' of a networked television. The end user shall be prompted to confirm the activation of networked standby, if it is needed for a chosen remotely activated function, and must be able to disable it Networked electronic displays shall comply with the N/A requirements for networked standby mode with the reactivation trigger device connected to the network and ready to activate a trigger instruction when required to. With networked standby mode disabled, networked electronic displays shall comply with the requirements of standby mode Automatic standby in televisions 3. Televisions shall provide a power management function, N/A Not applicable to monitor enabled as delivered by the manufacturer that, within 4 hours following the last user interaction, shall switch the television from on mode into standby mode or networked standby mode or another mode which does not exceed the applicable power demand requirements respectively for standby or networked standby mode. Before such automatic switch, televisions shall show, for at least 20 seconds, an alert message warning the user of the impending switch, with possibility of delaying or temporarily cancelling it. If the television provides a function allowing the user to Not applicable to monitor N/A shorten, extend or disable the 4-hour period for automatic mode transitions detailed in (a), a warning message shall appear about a potential increase in energy use and a confirmation of the new setting must be requested when an extension beyond the 4-hour period or disabling is selected.



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	ANNEX II Ecodesign requirements				
CI.	Requirement-Test	Result-Remark	Verdict		
	If the television is equipped with a room presence sensor, the automatic transition from on mode into any mode as detailed in (a) applies if no presence is detected for no more than 1 hour.	Not applicable to monitor	N/A		
	Televisions with various selectable input sources shall prioritise the power management protocols of the signal source selected and displayed over those default power management mechanisms described in the paragraphs (a) to (c) above.	Not applicable to monitor	N/A		
4.	Automatic standby in displays other than televisions				
	Electronic displays other than televisions, with various selectable 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.	See appended table 4	P		
	Before triggering such a switch, a warning message shall be	Warning message:	Р		
	display and the switch completed within 10 minutes.	"No signal"			
		Or equivalent text			
	For electronic displays with a designated computer signal interface, 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. 6.2.3. The computer shall be placed on the market with the display sleep mode set to activate within 10 minutes of user inactivity.		P		
D. MA	ATERIAL EFFICIENCY REQUIREMENTS (From 1 March 2021)	·		
1.	Design for dismantling, recycling and recovery				
	Manufacturers, importers or their authorised representatives shall 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 on batteries and accumulators and waste batteries and accumulators, when present. The derogations indicated in Article 11 of 2006/66/EC about	Refer to guaranteed letter provided by applicant	P		
	permanent connection between the electronic display and the battery or accumulator apply.				



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COMMISSION REGULATION (EU) 2019/2021 + (EU) 2021/341 **ANNEX II Ecodesign requirements** CI. **Requirement-Test** Verdict **Result-Remark** Р Manufacturers, importers or their authorised representatives Refer to guaranteed letter shall, without prejudice to point 1 of Article 15 of Directive provided by applicant 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 dismantling steps, tools or technologies needed to access the targeted components. This end of life information shall be available until at least 15 Refer to guaranteed letter P years after the placing on the market of the last unit of a provided by applicant product model. 2. Marking of plastic components Plastic components heavier than 50g. Shall be marked by specifying the type of polymer with the 2.(a) Refer to guaranteed letter P appropriate standard symbols or abbreviated terms set provided by applicant between the punctuation marks '>' and '<' as specified in available standards. The marking shall be legible. Plastic components are exempt from marking requirements in the following circumstances: 1) The marking is not possible because of the shape or 2) The marking would impact on the performance or functionality of the plastic component; and Marking is technically not possible because of the 3) molding method. For the following plastic components no marking is required: 1) Packaging, tape, labels and stretch wraps; Wiring, cables and connectors, rubber parts and anywhere not enough appropriate surface area is available for the marking to be of a legible size; 3) PCB assemblies, PMMA boards, optical components, electrostatic discharge components, electromagnetic interference components, speakers; Transparent parts where the marking would obstruct the function of the part in question. Components containing flame retardants shall additionally 2.(b) Refer to guaranteed letter P be marked with the abbreviated term of the polymer followed provided by applicant 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



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COMMISSION REGULATION (EU) 2019/2021 + (EU) 2021/341 **ANNEX II Ecodesign requirements** CI. **Requirement-Test Result-Remark** Verdict Electronic displays with a screen panel in which Р concentration 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 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 enclosure and stand of electronic displays.

Design for repair and reuse

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5.

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Refer to guaranteed letter

provided by applicant



Report No. SHEE220900024651



COMMISSION REGULATION (EU) 2019/2021 + (EU) 2021/341 **ANNEX II Ecodesign requirements** CI. **Requirement-Test** Verdict **Result-Remark** Р 5.(a) Availability of spare parts: Refer to guaranteed letter provided by applicant 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 Blu-Ray), capacitors above 400 microfarads, batteries and accumulators, DVD/Blu-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: Manufacturers, importers or authorised representatives of 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 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 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 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



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availability of these spare parts.



COMMISSION REGULATION (EU) 2019/2021 + (EU) 2021/341 **ANNEX II Ecodesign requirements** CI. **Requirement-Test** Verdict **Result-Remark** Access to repair and maintenance information Р 5.(b) Refer to guaranteed letter After a period of two years after the placing on the market of provided by applicant the 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 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: 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 this point; The professional repairer is covered by insurance covering liabilities resulting from its activity, regardless of whether this is required by the Member State: 2) The manufacturers, importers or authorised representatives 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.



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	COMMISSION REGULATION (EU) 2019/2021	+ (EU) 2021/341			
	ANNEX II Ecodesign requirements				
CI.	Requirement-Test Result-Remark		Verdict		
	 Once registered, a professional repairer shall have access to the requested repair and maintenance information within one working day after requesting it. The available repair and maintenance information shall include: 1) The unequivocal appliance identification; 2) A disassembly map or exploded view; 3) List of necessary repair and test equipment; 4) Component and diagnosis information (such as minimum and maximum theoretical values for measurements); 5) Wiring and connection diagrams; 6) Diagnostic fault and error codes (including 	Refer to guaranteed letter provided by applicant	P		
	manufacturer-specific codes, where applicable); and 7) Data records of reported failure incidents stored on the electronic display (where applicable).				
5.(c)	Maximum delivery time of spare parts 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;	Refer to guaranteed letter provided by applicant	P		
	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).				
E. INF	ORMATION AVAILABILITY REQUIREMENTS (From 1 March	h 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. 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).	Refer to guaranteed letter provided by applicant	P		
1.	Availability of software and firmware updates				
1.(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.		P		
1.(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.	See product information sheet	P		



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COMMISSION DELEGATED REGULATION (EU) 2019/2013 + (EU) 2021/340 ANNEX II Energy labelling requirements

CI. Requirement Result-Remark

A. Energy efficiency classes

1. The energy efficiency class of an electronic display shall be determined on the basis of its energy efficiency index for labelling (EEI_{label}) as set out in Table 1. The EEI_{label} of an electronic display shall be determined in accordance with part B of this Annex.

 $\label{eq:Table 1} \textit{Table 1}$ Energy efficiency classes of electronic displays

8/	, , ,
Energy Efficiency Class	Energy Efficiency Index (EEI _{label})
A	$EEI_{label} < 0,30$
В	$0.30 \le EEI_{label} < 0.40$
С	$0.40 \le EEI_{label} < 0.50$
D	$0.50 \le EEI_{label} < 0.60$
Е	$0.60 \le EEI_{label} < 0.75$
F	$0.75 \le EEI_{label} < 0.90$
G	0,90 ≤ EEI _{label}

B. Energy Efficiency Index (EEI_{label})

The Energy Efficiency Index (EEI_{label}) shall be calculated using the following equation:

$$EEI_{label} = \frac{(P_{measured} + 1)}{\left(3 \times \left[90 \times tanh(0,025 + 0,0035 \times (A - 11)) + 4\right] + 3\right) + corr_l}$$

A represents the screen area in dm²:

P_{measured} is the measured power in on mode in Watts in the normal configuration and set as indicated in table 2

corr is a correction factor set as indicated in table 3

Table

Measurement of Pmeasured

Dynamic Range level	P _{measured}
Standard Dynamic Range (SDR): Pmeasured _{SDR}	Power demand in Watts (W) in on mode, measured when displaying 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 $P_{measured}$.
High Dynamic Range (HDR) Pmeasured _{HDR}	Power demand in Watts (W) in on mode, measured as for $Pmeasured_{SDR}$ but with the HDR functionality activated by metadata in the standardised HDR test sequences. Where allowances are applicable according to part C of this Annex, they should be deducted from $P_{measured}$.

Calculation base on measured value:

SDR mode : EEEI = 0.674

Calculation base on declared value:

SDR mode: E

EEI = 0.659



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		Corr =0	
		Corr =0(declared	
	Electronic Display type	corr _I value	value)
	Television	0,0	
	Monitor	0,0	
	Digital signage	0,00062*(lum-500)*A	
		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 dm²	
C. All	lowances and adjustments for	the purpose of the EEI _{label} calculation	
1.		atic brightness control (ABC) shall qualify for a ey meet all of the following requirements:	N/A
1.(a)	ABC is enabled in the normal configuration of the electronic display and persists in any other standard dynamic range configuration available to the end-user;		N/A
1.(b)	the value of P _{measured} , in the normal configuration, is 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
1.(c)	if applicable, the value of P _{measured} 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		N/A
1.(d)	with ABC enabled, the measured value of the on mode power must decrease by 20 % or more when the ambient light condition, measured at the ABC sensor, is reduced from 100 lux to 12 lux; and		N/A
1.(e)	the ABC control of the display s characteristics when the ambier changes:	N/A	
	 the measured screen luminance at 60 lux is between 65 % and 95 % of the screen luminance measured at 100 lux; the measured screen luminance at 35 lux is between 50 % and 80 % of the screen luminance measured at 100 lux; and the measured screen luminance at 12 lux is between 35 % and 70 % of the screen luminance measured at 100 lux. 		



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Table 1 Test parameters for measur	able 1 Test parameters for measurements		
Ambient temperature (°C):	22,8		
Air speed (m/s):	0,01		
Test voltage in V:	230V		
Test frequency in Hz:	50Hz		
Total harmonic distortion (THD) of the	V: 1,284 %		
electricity supply system:	A: 140,19%		
Screen area A (dm²):	15,51dm ² (5,26 dm X 2,95 dm)		
Input terminal for the audio and video			
test signals:			
Audio and video signals for test:	For on mode power test: SDR Dynamic test sequences ("HD Dynamic Video Power.mp4") according to table 3a in Annex V of the COMMISSION REGULATION (EU) 2021/341 (Resolution: 1920 x 1080); HDR Dynamic test sequences (HDR-HLG power.mp4 & HDR-HDR10 power.mp4) according to table 3a in Annex V of the COMMISSION REGULATION (EU) 2021/341 (Resolution: 1920 x 1080); For peak luminance test: A new variant of the "box and outline" dynamic test pattern providing a dynamic format with colour according to table 3a in Annex V of the COMMISSION REGULATION (EU) 2021/341.		
Standby/Off/Network standby/another mode power consumption was determined by:	☐ Sampling method;☑ Average reading method		
Electronic displays setting selected:	☐ Normal configuration: default choice of Forced menu		
Picture settings used for brightest peak	Brightest pre-set setting: standard		
white luminance measurement	Brightness: 100, Contrast: 100		

Table 2 Set-up and circuits used for electrical testing in accordance with EN 50564:2011 Annex B.4:



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Where the connection arrangement can be configured, it is selected as below:

- 1, Lower powers: Im \leq Vs x $\sqrt{1/(Ra \times Rv)}$, then use the connection arrangement in B.1;
- 2, Higher powers: Im > Vs x $\sqrt{1/(Ra \times Rv)}$, then use the connection arrangement in B.2;

where

- Im is the measured r.m.s. current of the load in amps (A);
- Vs is the supply voltage (V);
- Ra is the resistance of the current shunt for the selected current range (in ohm);
- Rv is the resistance of the voltmeter (in ohm);

Rating parameter for WT3000 power analyzer as below:

- Voltage input resistance Rv 10 MOhm (10 000 000 ohm)
- Current shunt resistance Ra 500 MOhm (0,500 ohm) is for channel 1, Max. 2 A

Ra $\sqrt{1/(Ra \times Rv)}$	100 (V)	115 (V)	230 (V)
0,500 (ohm)	0,0447 (A)	0,0514 (A)	0,1029 (A)

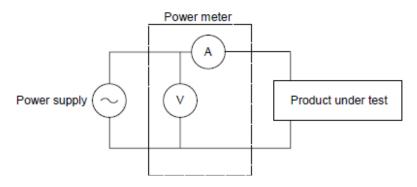


Figure B.1 – Connection arrangement for lower power loads

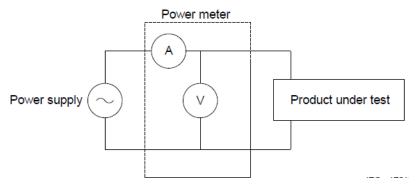


Figure B.2 – Connection arrangement for higher power loads.



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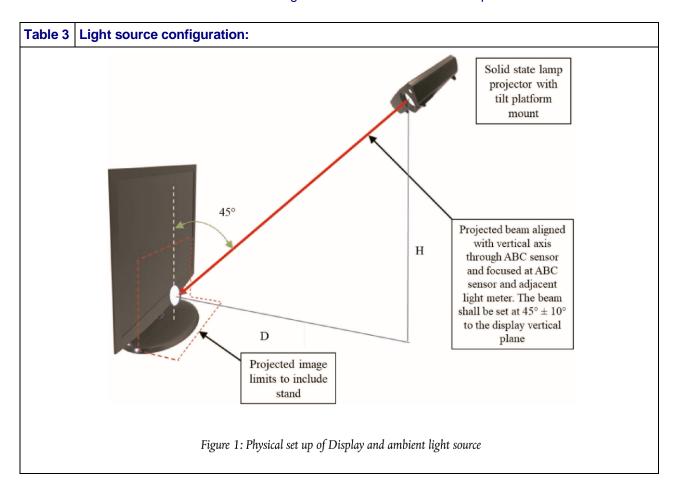


Table 4 Test result		Р			
Test item(s)	Measured (W)	Declared (W)	Limit (W)		
Off-mode condition:	0,16	0,30	0.30		
			Max.	Allowance	total
Standby-mode condition:	0,16	0,50	0,50		0,50
Network standby-mode condition:					
Another condition which does not exceed the applicable power demand requirements respectively for standby or networked standby mode:					



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Test item(s) Description of how the appliance mode was selected or programmed including any enhanced reactivation functions:	Conne "switch		Declared (W)	ر مادهاد،	Limit (
was selected or programmed including	"switch		s and turn on the	، خاممام، د		
any ennanced reactivation functions:		Connected to mains and turn on the display by pressing the "switch" button on the product				
	Select	the Out-of-th	ne-box default se	etting;		
	Input the test video signal by HDMI terminal and measured the on-mode power consumption and peak luminance; Change to "Brightest pre-set setting" to measure the peak luminance.					
		The monitor will automatically switch into standby mode when no				
		-	any input sourc			
	By switching the switch can turn off the display, measured the OFF-mode power consumption.					
Sequence of events to reach the mode where the equipment automatically changes modes:	The display will automatically switch into standby mode when no input is detected by any input source for over 60 seconds					
For the networked electronic displays	only:	_				
The number and type of network	No.	Type	Location		Trigger	
interfaces and, except for wireless network interfaces, their position in the	N/A	N/A	N/A		N/A	
electronic displays, the trigger to be used	N/A	N/A	N/A		N/A	
to reactivate the electronic display:	N/A	N/A	N/A		N/A	
the default time after which the power ma a condition providing networked standby	ent function,	switches the disp	olay into	N/A		
whether networked electronic display pro management function and/or the end-use networked standby mode into standby me	er to swit	ch the electr	onic display from	า	N/A	
Test item(s)			Measure	d		Declared
Electronic displays without automatic brig	htness o	control (ABC	;)			
On-mode (HDR) power P _{measured} (W):						
On-mode (SDR) power P _{measured} (W) :			16,537			16,2
Peak luminance in normal configuration L _{normal} (cd/m²) :			188,7			
		> 220 / 150 cd/m ²				
Peak luminance in brightest on mode configuration L _{brightest} (cd/m²) :			276,4			
Ratio of the peak luminance L _{normal} / L _{brightest}						
			> 65%			
Test item(s)		Measure	d		Declared	
Electronic displays with automatic brightr	ness con	trol (ABC)				
On-mode (SDR) power P _{measured} (W) :						



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	•					
On-mode power (SDR) at ABC Pmeasured_ABC_disabled:	disabled					
On-mode power (SDR) at 100 luthe ABC sensor Pmeasured_AE						
On-mode power (SDR) at 12 lux the ABC sensor P _{measured_ABC_12} :						
Percentage of power reduction of between the 100 lux and 12 lux conditions		> 1	 20%			
Peak luminance in normal configurations ambient light at the ABC sensor						
ambient light at the 7120 concer	LIIOIIIIai_ABC_100 :	> 220 / 150 cd/m ²				
Peak luminance in normal configuration at 60 lux						
ambient light at the ABC sensor	Lnormal_ABC_60:	≥ 65% L _{normal_} A	BC_100 and ≤ 95% L _{norma}	al_ABC_100		
Peak luminance in normal config						
ambient light at the ABC sensor	Lnormal_ABC_35:	≥ 50% Lnormal_ABC_100 and ≤ 80% Lnormal_ABC_100				
Peak luminance in normal config	guration at 12 lux					
ambient light at the ABC sensor	Lnormal_ABC_12:	≥ 35% Lnormal_ABC_100 and ≤ 70% Lnormal_ABC_100				
Peak luminance in brightest on configuration at 100 lux ambient sensor Lbrightest_ABC_100:						
Ratio of the peak luminance Lnormal_ABC_100 / Lbrightest_ABC_100						
		> 65%				
Sequence of steps for achieving with respect to power consumpt		The product has 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.				
Test item(s)	Calculation base o measured value	Calculation base declared value		Limit		
Energy Efficiency Index (EEI):	0,694	0,678	0.9 (from 1 March 2021)			
	0,694	0,678	0.75 (from 1 March 2023)			
Power management						
The default period of time after which the power management function, or a similar function,	Measured	Declared	Limit(mins)			
			240 for TV			
switches the equipment automatically into off mode or			60 for digital interactive whiteboards or broadcast displa			
standby mode or networked standby mode(minutes)	1min		10 for other electronic displays			



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Table 5	Test instruments					
Name		Brand	Model	Last cal. date	Next cal. date	
Power meter		Henghe	WT310E/C2-H/G5	2021-12-26	2022-12-25	
AC Power Sup	ply	Yuanfang	PCR- 1000WH_V200	2022-07-25	2023-07-24	
Illuminance me	ter	Yuanfang	V-08001	2022-10-26	2023-10-25	
Spectroradiome	eter	KONICA MINOLTA, INC.	CS-2000A	2022-10-25	2023-10-24	
Digital tempera humidity record		testo	175H1	2021/12/14	2022/12/13	



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Photo documents:



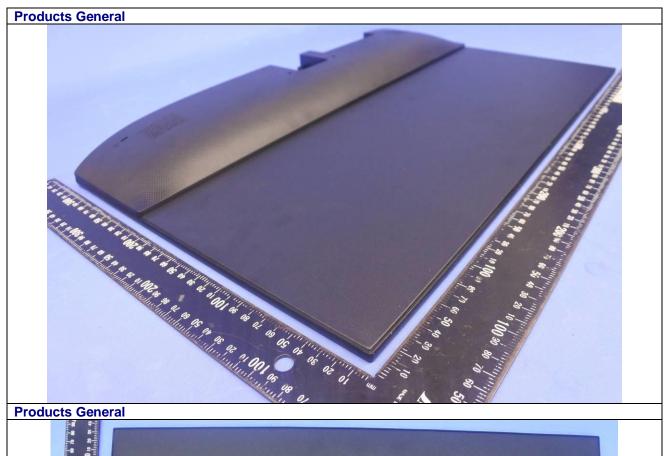
Products General





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