



Report Reference No: TW2302272S

TEST REPORT

COMMISSION REGULATION (EU) No 617/2013 of 26 June 2013 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for computers and computer servers

Report Reference No.: TW2302272S

Tested by (+ signature): Joson Dong

Approved by (+ signature).....: Jack Chung

Date of issue: 2023-03-29

Total number of pages: 23 pages

Testing laboratory

Name: SHENZHEN TIMEWAY TESTING LABORATORIES

Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park
Road West, Tong Le Village, Nanshan District, Shenzhen, China

Testing location / address: Same as above

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

Address: No. 1199, Bin'an Road, Binjiang District, Hangzhou, P.R. China

Test specification

Standard: COMMISSION REGULATION (EU) No 617/2013, EN 50564: 2011,
IEC 62623:2022, EN IEC 62623:2022

Test procedure: Compliance with COMMISSION REGULATION (EU) No 617/2013,
IEC 62623:2022, EN IEC 62623:2022

Test Report Form No.....: Computers- ERP

Test Report Form(s) Originator: SST

Master TRF: Dated 2023-01

Test item description: SMART MONITOR

Trade Mark: DAHUA

Manufacturer: ZHEJIANG DAHUA VISION TECHNOLOGY CO.,LTD

Address: No. 1199, Bin'an Road, Binjiang District, Hangzhou, P.R. China

Model/Type reference: 32S1U, V32D4U, LM32-U400P

Ratings: Product Input: 19V $\overline{\text{---}}$ 6.32A

Adapter Input:100-240V~, 50-60Hz, 2.0A

Copy of marking plate:

Rating label:



Summary of testing:

The product fulfills the requirements of COMMISSION REGULATION (EU) No 617/2013, EN 50564: 2011, IEC 62623:2022, EN IEC 62623:2022.



Report Reference No: TW2302272S

Possible test case verdicts:

- test case does not apply to the test object: N/A
- test object does meet the requirement: P (Pass)
- test object does not meet the requirement: F (Fail)

Testing

Date of receipt of test item: 2023-03-03

Date(s) of performance of tests: 2023-03-03 to 2023-03-29

General remarks:

The test results presented in this report relate only to the object tested.
This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

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

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

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

General product information:

1.This is a Integrated desktop computer.

2. Adapter Information:

Model No.	Specification	Manufacturer	Efficiency Level
DA-120B19	Input: 100-240V~, 50-60Hz, 2.0A Output: 19.0V $\overline{\text{---}}$ 6.32A, 120.08W	ASIAN POWER DEVICES INC.	VI



COMMISSION REGULATION (EU) No 617/2013 of 26 June 2013 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for computers and computer servers ANNEX II Ecodesign requirements and timetable			
1. E_{TEC}			
Desktop computer, integrated desktop computer			
1.1.1	From 1 July 2014		P
1.1.2	<p>The annual total energy consumption (E_{TEC} in kWh/year) shall not exceed:</p> <p>(a) Category A computer: 133,00; (b) Category B computer: 158,00; (c) Category C computer: 188,00; (d) Category D computer: 211,00.</p> <p>E_{TEC} shall be determined using the following formula: $E_{TEC} = (8\ 760/1\ 000) \times (0,55 \times P_{off} + 0,05 \times P_{sleep} + 0,40 \times P_{idle})$.</p> <p>For computers that lack a discrete sleep mode, but have idle state power demand less than or equal to 10,00 W, power in idle state (P_{idle}) may be used in place of sleep (P_{sleep}) in the above equation, such that the formula is replaced by $E_{TEC} = (8\ 760/1\ 000) \times (0,55 \times P_{off} + 0,45 \times P_{idle})$</p> <p>All P_x are power values in the indicated mode/state as defined in the definition section, measured in Watts (W) according to the procedures indicated in Annex III.</p>	Category D integrated desktop computer	P
1.1.2	<p>The following capability adjustments apply:</p> <p>(a) memory: 1 kWh/year per GB over base, where base memory is 2 GB (for category A, B and C computers) and 4 GB (for category D computers); (b) additional internal storage: 25 kWh/year; (c) discrete television tuner: 15 kWh/year; (d) discrete audio card: 15 kWh/year; (e) discrete graphics card (dGfx) for the first and each additional discrete graphics card (dGfx):</p>	1*(8-4)=4 kWh/year	P



COMMISSION REGULATION (EC) No 617/2013					
Section	Requirement + Test			Result - Remark	Verdict
		dGfx category	TEC allowance (kWh/year)		
	First discrete graphics card (dGfx)	G1	34		
		G2	54		
		G3	69		
		G4	100		
		G5	133		
		G6	166		
		G7	225		
	Each additional discrete graphics card (dGfx)	G1	20		
		G2	32		
		G3	41		
		G4	59		
		G5	78		
		G6	98		
		G7	133		
1.1.3	The capability adjustments for discrete graphics cards (dGfx), discrete television tuner and discrete audio card mentioned in point 1.1.2 and point 1.2.2 only apply to cards and tuner that are enabled during testing of desktop computers or integrated computers.				N/A
1.1.4	<p>Category D desktop computers and integrated desktop computers meeting all of the following technical parameters are exempt from the provisions specified in points 1.1.1 and 1.1.2 and their revisions specified in point 1.2:</p> <p>(a) a minimum of six physical cores in the central processing unit (CPU); and</p> <p>(b) discrete graphics card(s) (dGfx) providing total frame buffer bandwidths above 320 GB/s; and</p> <p>(c) a minimum 16 GB of system memory; and</p> <p>(d) a PSU with a rated output power of at least 1 000 W.</p>				N/A
1.2	From 1 January 2016				P
1.2.1	<p>The following revisions to the annual total energy consumption specified in point 1.1.1 apply:</p> <p>The annual total energy consumption (E TEC in kWh/year) shall not exceed:</p> <p>(a) Category A computer: 94,00;</p> <p>(b) Category B computer: 112,00;</p> <p>(c) Category C computer: 134,00;</p> <p>(d) Category D computer: 150,00.</p>			Category D integrated desktop computer	P
1.2.2	The following revisions to the capability adjustments for discrete graphics cards (dGfx) specified in point 1.1.2(e) apply:				N/A
COMMISSION REGULATION (EC) No 617/2013					
Section	Requirement + Test			Result - Remark	Verdict

		dGfx category	TEC allowance (kWh/year)	I	N/A
	First discrete graphics card (dGfx)	G1	18		
		G2	30		
		G3	38		
		G4	54		
		G5	72		
		G6	90		
		G7	122		
	Each additional discrete graphics card (dGfx)	G1	11		
		G2	17		
		G3	22		
		G4	32		
		G5	42		
		G6	53		
		G7	72		
Notebook computer					
1.3	From 1 July 2014				N/A
1.3.1	<p>The annual total energy consumption (E_{TEC} in kWh/year) shall not exceed:</p> <p>(a) Category A computer: 36,00;</p> <p>(b) Category B computer: 48,00;</p> <p>(c) Category C computer: 80,50;</p> <p>E_{TEC} shall be determined using the following formula:</p> $E_{TEC} = (8\,760/1\,000) \times (0,60 \times P_{off} + 0,10 \times P_{sleep} + 0,30 \times P_{idle})$ <p>where all P_x are power values in the indicated mode/state as defined in the definition section, measured in Watts (W) according to the procedures indicated in Annex III.</p>				N/A
1.3.2	<p>The following capability adjustments apply:</p> <p>(a) memory: 0,4 kWh/year per GB over base, where base memory is 4 GB;</p> <p>(b) additional internal storage: 3 kWh/year;</p> <p>(c) discrete television tuner: 2,1 kWh/year;</p> <p>(d) discrete graphics card (dGfx) (for the first and each additional discrete graphics card (dGfx))</p>				N/A



COMMISSION REGULATION (EC) No 617/2013					
Section	Requirement + Test			Result - Remark	Verdict
		dGfx category	TEC allowance (kWh/year)		N/A
	First discrete graphics card (dGfx)	G1	12		
		G2	20		
		G3	26		
		G4	37		
		G5	49		
		G6	61		
		G7	113		
	Each additional discrete graphics card (dGfx)	G1	7		
		G2	12		
		G3	15		
		G4	22		
		G5	29		
		G6	36		
		G7	66		
1.3.3	The capability adjustments for discrete graphics cards (dGfx) and discrete television tuner mentioned in point 1.3.2 and point 1.4.2 only apply to cards and tuner that are enabled during testing of notebook computers.				N/A
1.3.4	Category C notebook computers meeting all of the following technical parameters are exempt from the provisions specified in points 1.3.1 and 1.3.2 and their revisions specified in point 1.4: (a) a minimum of four physical cores in the central processing unit (CPU); and (b) discrete graphics card(s) (dGfx) providing total frame buffer bandwidths above 225 GB/s; and (c) a minimum 16 GB of system memory.				N/A
1.4	From 1 January 2016				N/A
1.4.1	The following revisions to the annual total energy consumption specified in point 1.3.1 apply: The annual total energy consumption (E_{TEC} in kWh/year) shall not exceed: (a) Category A computer: 27.00; (b) Category B computer: 36.00; (c) Category C computer: 60.50;				N/A
1.4.2	The following revisions to the capability adjustments for discrete graphics cards (dGfx) specified in point 1.3.2(d) apply:				N/A



COMMISSION REGULATION (EC) No 617/2013					
Section	Requirement + Test			Result - Remark	Verdict
		dGfx category	TEC allowance (kWh/year)		
	First discrete graphics card (dGfx)	G1	7		
		G2	11		
		G3	13		
		G4	20		
		G5	27		
		G6	33		
		G7	61		
	Each additional discrete graphics card (dGfx)	G1	4		
		G2	6		
		G3	8		
		G4	12		
		G5	16		
		G6	20		
		G7	36		
2. SLEEP MODE					
Desktop computer, inte-grated desktop computer and notebook computer					
2	From 1 July 2014				P
2.1	A product shall provide sleep mode and/or another condition that provides the functionality of sleep mode and which does not exceed the applicable power demand requirements for a sleep mode.				P
2.2	Power demand in sleep mode shall not exceed 5,00 W in desktop computers and integrated desktop computers and 3,00 W in notebook computers.				P
2.3	Desktop computers and integrated desktop computers where idle state power demand is less than or equal to 10,00 W are not required to have a discrete system sleep mode.				P
2.4	Where a product is placed on the market with a WOL functionality enabled in sleep mode: (a) an additional allowance of 0,70 W can be applied; (b) it must be tested with a WOL functionality both enabled and disabled and must comply with both requirements.			Without WOL function.	N/A
2.5	Where a product is placed on the market without Ethernet capability, it shall be tested without WOL enabled.				N/A
3. LOWEST POWER STATE					
Desktop computer, inte-grated desktop computer and notebook computer					
3	As of the entry into force of the Regulation				P
3.1	Power demand in the lowest power state shall not exceed 0,50 W.				P
COMMISSION REGULATION (EC) No 617/2013					
Section	Requirement + Test			Result - Remark	Verdict



Report Reference No: TW2302272S

3.2	A product shall provide a power state or mode which does not exceed the applicable power demand requirements for the lowest power state when it is connected to the mains power source.		P
3.3	Where a product is placed on the market with an information or status display, an additional allowance of 0,50 W can be applied.		N/A
4. OFF MODE			
Desktop computer, inte-grated desktop computer and notebook computer			
4	From 1 July 2014		P
4.1	Power demand in off mode shall not exceed 1,00 W.		P
4.2	A product shall provide off mode and/or another condition which does not exceed the applicable power demand requirements for off mode when it is connected to the mains power source.		P
4.3	Where a product is placed on the market with a WOL functionality enabled in off mode: (a) an additional allowance of 0,70 W can be applied; (b) it must be tested with a WOL functionality both enabled and disabled and must comply with both requirements.	Without WOL function.	N/A
4.4	Where a product is placed on the market without Ethernet capability, it shall be tested without WOL enabled.		N/A
5. INTERNAL POWER SUPPLY EFFICIENCY			
Desktop computer, inte-grated desktop computer, desktop thin client, workstation, and small- scale server			
5.1	From 1 July 2014 All computer internal power supplies shall not perform at less than: (a) 85 % efficiency at 50 % of rated output power; (b) 82 % efficiency at 20 % and 100 % of rated output power; (c) power factor = 0,9 at 100 % of rated output power. Internal power supplies with a maximum rated output power of less than 75 W are exempt from the power factor requirement.	Powered by external power supply	N/A
Computer servers			
5.2	From 1 July 2014	Powered by external power supply	N/A
5.2.1	All multi-output (AC-DC) power supplies shall not perform at less than: (a) 85 % efficiency at 50 % of rated output; (b) 82 % efficiency at 20 % and 100 % of rated output.		N/A
5.2.2	All multi-output (AC-DC) power supplies shall not perform at less than: (a) power factor 0,8 at 20 % of rated output; (b) power factor 0,9 at 50 % of rated output; (c) power factor 0,95 at 100 % of rated output.		N/A



COMMISSION REGULATION (EC) No 617/2013			
Section	Requirement + Test	Result - Remark	Verdict
5.2.3	All single output (AC-DC) power supplies with rated output of not more than 500 W shall not perform at less than: (a) 70 % efficiency at 10 % of rated output; (b) 82 % efficiency at 20 % of rated output; (c) 89 % efficiency at 50 % of rated output; (d) 85 % efficiency at 100 % of rated output.		N/A
5.2.4	All single output (AC-DC) power supplies with rated output of not more than 500 W shall not perform at less than: (a) power factor 0,8 at 20 % of rated output; (b) power factor 0,9 at 50 % of rated output; (c) power factor 0,95 at 100 % of rated output.		N/A
5.2.5	All single output (AC-DC) power supplies with rated output greater than 500 W but not more than 1 000 W shall not perform at less than: (a) 75 % efficiency at 10 % of rated output; (b) 85 % efficiency at 20 % and 100 % of rated output; (c) 89 % efficiency at 50 % of rated output.		N/A
5.2.6	All single output (AC-DC) power supplies with rated output greater than 500 W but not more than 1 000 W shall not perform at less than: (a) power factor 0,65 at 10 % of rated output; (b) power factor 0,8 at 20 % of rated output; (c) power factor 0,9 at 50 % of rated output; (d) power factor 0,95 at 100 % of rated output.		N/A
5.2.7	All single output (AC-DC) power supplies with rated output of more than 1 000 W shall not perform at less than: (a) 80 % efficiency at 10 % of rated output; (b) 88 % efficiency at 20 % and 100 % of rated output; (c) 92 % efficiency at 50 % of rated output.		N/A
5.2.8	All single output (AC-DC) power supplies with rated output of more than 1 000 W shall not perform at less than: (a) power factor 0,8 at 10 % of rated output; (b) power factor 0,9 at 20 % of rated output; (c) power factor 0,9 at 50 % of rated output; (d) power factor 0,95 at 100 % of rated output.		N/A
6. POWER MANAGEMENT ENABLING			
Desktop computer, inte-grated desktop computer and notebook computer			
6.1	As of the entry into force of the Regulation The computer shall offer a power management function, or a similar function which, when the computer is not providing the main function or when other energy-using products are not dependent on its functions, automatically switches the computer into a power mode that has a lower power demand than the applicable power demand requirement for sleep mode.		P
6.2.	From 1 July 2014		P

COMMISSION REGULATION (EC) No 617/2013			
Section	Requirement + Test	Result - Remark	Verdict



Report Reference No: TW2302272S

6.2.1.	The computer shall reduce the speed of any active 1 Gigabit per second (Gb/s) Ethernet network links when transitioning to sleep or off-with-WOL mode.	without WOL function	N/A
6.2.2.	When in sleep mode, the response to 'wake events', such as those via network connections or user interface devices, should happen with a latency of ≤ 5 seconds from the initiation of a wake event to the system becoming fully usable including rendering of display.		N/A
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
6.2.4.	A computer with Ethernet capability shall have the ability to enable and disable a WOL function, if available, for sleep mode. A computer with Ethernet capability shall have the ability to enable and disable WOL for off mode if WOL from off mode is supported.		N/A
6.2.5.	Where a distinct sleep mode or another condition that provides sleep mode functionality exists, the mode shall be set to activate within 30 minutes of user inactivity. This power management function shall be activated before placing the product on the market.		P
6.2.6.	Users shall be able to easily activate and deactivate any wireless network connection(s) and users shall be given a clear indication with a symbol, light or equivalent, when wireless network connection(s) have been activated or deactivated.		P

7. INFORMATION TO BE PROVIDED BY MANUFACTURERS

Desktop computer, inte-grated desktop computer, and notebook computer

7.1	From 1 July 2014		P
7.1.1	Manufacturers shall provide in the technical documentation and make publicly available on free-access websites the following information:	See below	P
	(a) product type and category as defined in Article 2 (one and only one category);	Category D integrated desktop computer	-
	(b) manufacturer's name, registered trade name or registered trade mark, and the address at which they can be contacted;	See manufacturer on Page 1	-
	(c) product model number;	32S1U	-
	(d) year of manufacture;	Print on package	-
	(e) E_{TEC} value (kWh) and capability adjustments applied when all discrete graphics cards (dGfx) are disabled and if the system is tested with switchable graphics mode with UMA driving the display;	18.53kWh	-
	(f) E_{TEC} value (kWh) and capability adjustments applied when all discrete graphics cards (dGfx) are enabled;	Without discrete graphics card	-
	(g) idle state power demand (Watts);	4.4930W	-
	(i) sleep mode with WOL enabled power demand (Watts) (where enabled);	1.342W, without WOL function	-



COMMISSION REGULATION (EC) No 617/2013			
Section	Requirement + Test	Result - Remark	Verdict
	(j) off mode power demand (Watts);	0.4570W	-
	(k) off mode with WOL enabled power demand (Watts) (where enabled);	Without WOL function	-
	(l) internal power supply efficiency at 10 %, 20 %, 50 % and 100 % of rated output power;	Powered by external power supply	-
	(m) external power supply efficiency;	VI	-
	(n) noise levels (the declared A-weighted sound power level) of the computer;	0	-
	(o) the minimum number of loading cycles that the batteries can withstand (applies only to notebook computers);	Integrated desktop computer	-
	(p) the measurement methodology used to determine information mentioned in points (e) to (o);	EN50564:2011, EN62623:2013	-
	(q) sequence of steps for achieving a stable condition with respect to power demand;	Wait 10 minutes	-
	(r) description of how sleep and/or off mode was selected or programmed;	See manual	-
	(s) sequence of events required to reach the mode where the equipment automatically changes to sleep and/or off mode;	Time selected by user	-
	(t) the duration of idle state condition before the computer automatically reaches sleep mode, or another condition which does not exceed the applicable power demand requirements for sleep mode;	Selected by user	-
	(u) the length of time after a period of user inactivity in which the computer automatically reaches a power mode that has a lower power demand requirement than sleep mode;	Selected by user	-
	(v) the length of time before the display sleep mode is set to activate after user inactivity;	Selected by user	-
	(w) user information on the energy-saving potential of power management functionality;	See manual	-
	(x) user information on how to enable the power management functionality;	See manual	-
	(y) for products with an integrated display containing mercury, the total content of mercury as X,X mg;	Without the component	-
	(z) test parameters for measurements:	See below	-
	— test voltage in V and frequency in Hz,	230V, 50Hz	-
	— total harmonic distortion of the electricity supply system,	1.175%	-
	— information and documentation on the instrumentation, set-up and circuits used for electrical testing.	See equipment list	-



COMMISSION REGULATION (EC) No 617/2013			
Section	Requirement + Test	Result - Remark	Verdict
7.1.2	If a product model is placed on the market in multiple configurations the product information required under point 7.1.1 may be reported once per product category (as defined in Article 2), for the highest power-demanding configuration available within that product category. A list of all model configurations that are represented by the model for which the information is reported shall be included in the in-formation provided.	Single model	-
Notebook computer			
7.2	From 1 July 2014 If a notebook computer is operated by battery/ies that cannot be accessed and replaced by a non-professional user, in addition to the information specified in point 7.1, manufacturers shall provide in the technical documentation, and make available on free-access websites and on the external packaging of the notebook computer, the following information 'The battery[ies] in this product cannot be easily replaced by users themselves'. The information provided on the external packaging of the notebook computer shall be clearly visible and legible and it shall be provided in all the official languages of the country where the product is marketed.		N/A
Workstation, mobile workstation, desktop thin client, small-scale server and computer server			
7.3	From 1 July 2014		P
7.3.1	Manufacturers shall provide in the technical documentation and make publicly avail-able on free-access websites the following information: (a) product type as defined in Article 2 (one and only one category); (b) manufacturer's name, registered trade name or registered trade mark, and the address at which they can be contacted; (c) product model number; (d) year of manufacture; (e) internal/external power supply efficiency;		P
	(f) test parameters for measurements: — test voltage in V and frequency in Hz, — total harmonic distortion of the electricity supply system, — information and documentation on the instrumentation, set-up and circuits used for electrical testing. (g) maximum power (Watts); (h) idle state power (Watts); (i) sleep mode power (Watts); (j) off mode power (Watts); (k) noise levels (the declared A-weighted sound power level of the computer; (l) the measurement methodology used to determine information mentioned in points (e) to (k).		P



Report Reference No: TW2302272S

COMMISSION REGULATION (EC) No 617/2013			
Section	Requirement + Test	Result - Remark	Verdict
7.3.2	If a product model is placed on the market in multiple configurations the product information required under point 7.3.1 may be reported once per product category (as defined in Article 2), for the highest power-demanding configuration available within that product category. A list of all model configurations that are represented by the model for which the information is reported shall be included in the in-formation provided.		N/A



Appliance Details	
Model No.	32S1U
Electrical Ratings	Voltage, Vdc: 19
	Current <input checked="" type="checkbox"/> A <input type="checkbox"/> mA: 3.42
	Frequency, Hz: N/A
	Power, Watts: N/A
External Power Supply (EPS):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Electrical Ratings of the EPS:	100-240VAC, 50-60Hz, 2.0A
Product Type	<input type="checkbox"/> Desktop Computers <input type="checkbox"/> Category A: not meet Category B, C or D <input type="checkbox"/> Category B: 2 physical cores and at least 2GB system memory <input type="checkbox"/> Category C: at least 3 physical cores and (at least 2GB system memory and/or a discrete graphics card (dGfx)) <input type="checkbox"/> Category D: at least 4 physical cores and (at least 4GB system memory and/or a discrete graphics card (dGfx) meeting G3)
	<input checked="" type="checkbox"/> Intergrated Desktop Computer <input type="checkbox"/> Category A: not meet Category B, C or D <input type="checkbox"/> Category B: 2 physical cores and at least 2GB system memory <input type="checkbox"/> Category C: at least 3 physical cores and (at least 2GB system memory and/or a discrete graphics card (dGfx)) <input checked="" type="checkbox"/> Category D: at least 4 physical cores and (at least 4GB system memory and/or a discrete graphics card (dGfx) meeting G3)
	<input type="checkbox"/> Notebook Computer <input type="checkbox"/> Category A: not meet Category B, C or D <input type="checkbox"/> Category B: at least a discrete graphics card (dGfx) <input type="checkbox"/> Category C: at least 2 physical cores and at least 2GB system memory and at least a discrete graphics card (dgfx))
	<input type="checkbox"/> Desktop Thin Clients
	<input type="checkbox"/> Workstations
	<input type="checkbox"/> Mobile Workstations
	<input type="checkbox"/> Small-Scale Servers
	<input type="checkbox"/> Computer Servers
Product Details	Processor brand and model number MT8195
	Number of processors 1
	Number of cores 8
	Speed per core 2.0 GHz
	System memory 8 GB
	Channels of memory 1
	Number of hard disk drives 1
	Integrated or discrete GPU <input checked="" type="checkbox"/> Integrated <input type="checkbox"/> Discrete
	Number of discrete GPUs installed N/A
	GPU data width N/A
	GPU data frequency N/A



Report Reference No: TW2302272S

Environment	
Supply Voltage: (V)	230
Supply Frequency: (Hz)	50
Measured ac Mains Voltage: (V)	230.7
Measured ac Mains Frequency: (Hz)	49.995
Ambient Temperature: (°C)	20.5
Relative Humidity: (%)	49.0
THD: (%)	1.175
Air Speed Close to the UUT: (m/s)	0.1

EN 62623: 2013 Table B.1

	Desktop computer	Notebook computer
I_{off}	45 %	25 %
$I_{\text{sleep}} + I_{\text{sleepWoL}}$	5 %	35 %
I_{idle}	15 %	10 %
I_{side}	35 %	30 %
I_{work}	0 %	0 %

The percentages provided above were created through an enterprise profile study conducted in 2010 by the ECMA-383 workgroup.



Report Reference No: TW2302272S

TEST RESULTS	
Computer display time to sleep (as shipped) (minutes)	10
Computer time to sleep (as shipped) (minutes)	30
WoL status at shipment	Without WOL
Long idle mode power (P_{idle}) (W)	4.4930
Short idle mode power (P_{sidle}) (W)	N/A
Sleep mode power (P_{sleep}) (W)	1.342
Sleep mode power WoL enabled (if applicable) ($P_{sleepWoL}$) (W)	N/A
Standby (off) mode power (P_{off}) (W)	0.4570
Standby (off) mode power WoL enabled (if applicable) (P_{off}) (W)	N/A
Active (work) mode power (if applicable)— P_{work} (W)	N/A
Duty cycle attributes type used for $TEC_{calculated}$ for notebook	
Standby (off mode) time T_{off} (%)	0.6
Sleep mode time T_{sleep} (% of year)	0.1
Idle mode time T_{idle} (% of year) (for notebook, idle mode means long idle mode)	0.3
Duty cycle attributes type used for $TEC_{calculated}$ for desktop, integrated computer	
Standby (off mode) time T_{off} (%)	0.55
Sleep mode time T_{sleep} (% of year)	0.05
Idle mode time T_{idle} (% of year) (for desktop, integrated computer, idle mode means short idle mode)	0.40
Additional information: Off mode is the lowest power state mode for this integrated desktop computer.	



Report Reference No: TW2302272S

CALCULATED RESULTS	
Desktop, integrated and notebook computers to be registered using TEC	
For notebook	
E _{TEC} Max(kWh/year)	N/A
TEC capability adjustments:	
TEC _{memory} (kWh/year)	N/A
TEC _{additional internal storage} (kWh/year)	0
TEC _{First discrete graphics card (dGfx)} (kWh/year)	0
TEC _{additional discrete graphics card (dGfx)} (kWh/year)	0
E _{TEC} (kWh/year)	N/A
Limit of Maximum E _{TEC} (W)From 1 January 2016	N/A
Result	N/A
For desktop, integrated computer	
E _{TEC} Max	150
TEC capability adjustments:	
TEC _{memory} (kWh/year)	4
TEC _{additional internal storage} (kWh/year)	0
TEC _{discrete television tuner} (kWh/year)	0
TEC _{discrete audio card} (kWh/year)	0
TEC _{discrete graphics card} (kWh/year)	0
TEC _{First discrete graphics card (dGfx)} (kWh/year)	0
TEC _{additional discrete graphics card (dGfx)} (kWh/year)	0
E _{TEC} (kWh/year)	18.53
Limit of Maximum E _{TEC} (W) (From 1 July 2014):	215
Limit of Maximum E _{TEC} (W)(From 1 January 2016):	154
Result	Pass



Report Reference No: TW2302272S

List of test equipment

DESCRIPTION	MANUF.	MODEL NO.	SERIAL NO.	CAL. DATE	DUE DATE
Humidity & Temp. Recorder	Anymetre	Jjr912	/	2022/06/22	2023/06/21
Digital Power Meter	ZLG	PA310	98203000152 107120018	2022/09/06	2023/09/05
Luminance Spectroradiometer	KONICA MINOLTA	CS2000	1002086	2022/10/28	2023/10/27
Measuring Tape	Deli	5m	/	2022/06/22	2023/06/21
Chromameter	KONICA MINOLTA	CL-200A	20026586	2022/12/11	2023/12/10

Pictures

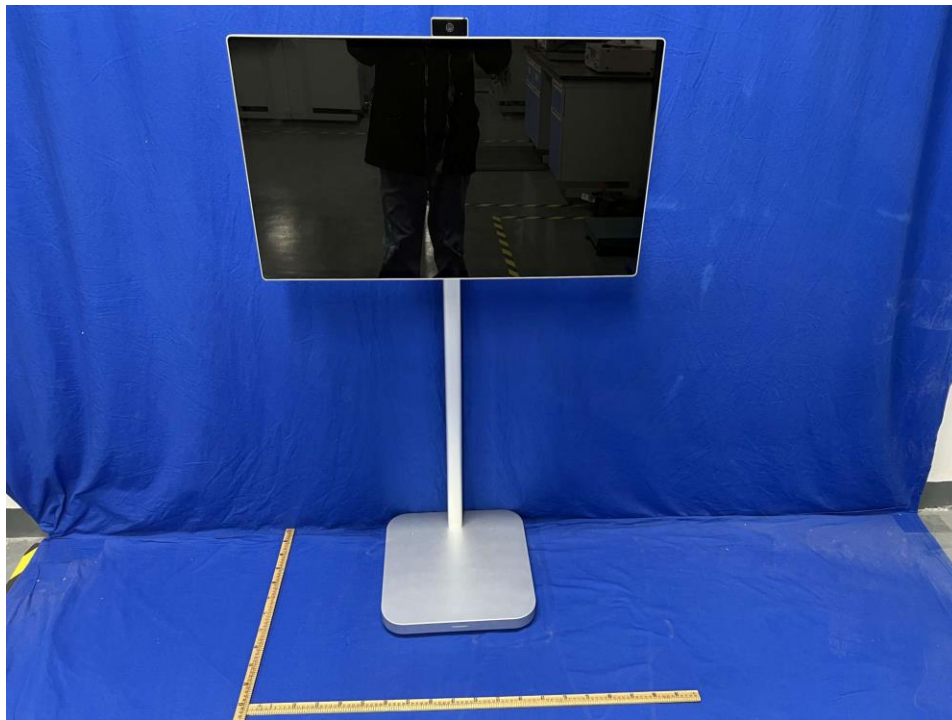


Fig. 1 -- Overall View

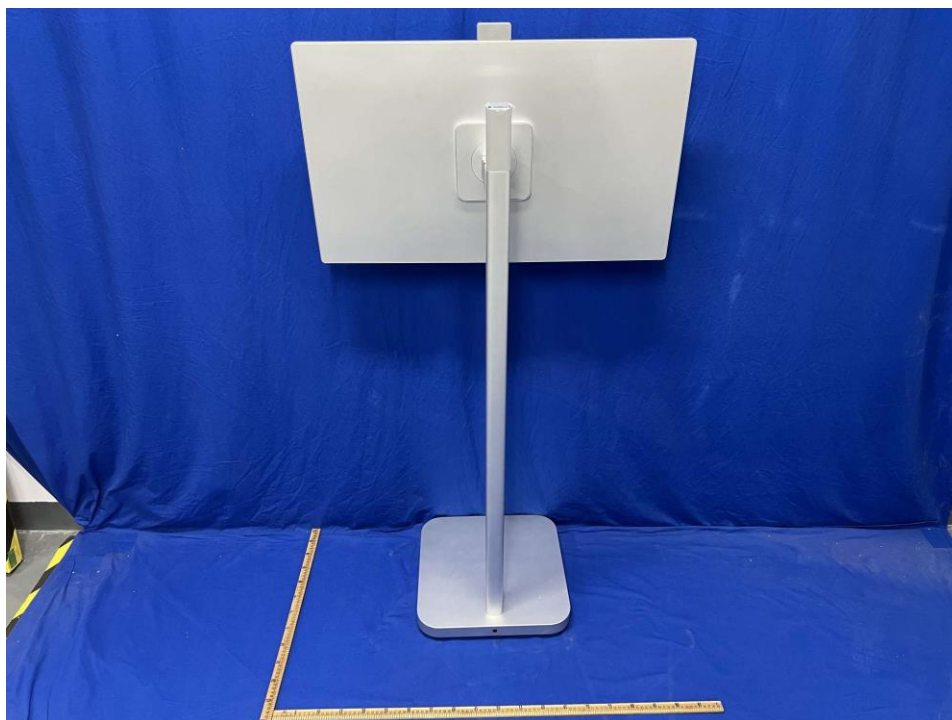


Fig. 2 -- Overall View



Fig.3 – I/O port View



Fig.4–adapter View



Fig.5 –adapter label



声明

Statement

1. 本报告无授权批准人签字及“检验检测专用章”无效;

This report will be void without authorized signature or special seal for testing report.

2. 未经许可本报告不得部分复制;

This report shall not be copied partly without authorization.

3. 本报告的检测结果仅对送测样品有效, 委托方对样品的代表性和资料的真实性负责;

The test results or observations are applicable only to tested sample. Client shall be responsible for representativeness of the sample and authenticity of the material.

4. 本检测报告中检测项目标注有特殊符号则该项目不在资质认定范围内, 仅作为客户委托、科研、教学或内部质量控制等目的使用;

The observations or tests with special mark fall outside the scope of accreditation, and are only used for purpose of commission, research, training, internal quality control etc.

5. 本检测报告以实测值进行符合性判定, 未考虑不确定度所带来的风险, 本实验室不承担相关责任, 特别约定、标准或规范中有明确规定的除外;

The test results or observations are provided in accordance with measured value, without taking risks caused by uncertainty into account. Without explicit stipulation in special agreements, standards or regulations, EMTEK shall not assume any responsibility.

6. 对本检验报告若有异议, 请于收到报告之日起 20 日内提出;

Objections shall be raised within 20 days from the date receiving the report.