Test Report issued under the responsibility of:

GTS

TEST REPORT

COMMISSION REGULATION (EC) No 617/2013

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.....:	
Tested by (name + signature).....:	Eleven Yang
Approved by (+ signature) .....:	Robinson Luo
Date of issue.....:	2021-11-24
Total number of pages.....:	22 pages
Testing Laboratory.....:	**Global United Technology Services Co., Ltd.**
Address.....:	No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China.
Applicant's name.....:	**FOKUS BILGISAYAR SAN. VE TIC. LTD. STI.**
Address.....:	Sahrayicedit Mah. Halk Sok. No:48, 34734 Kadıköy/İstanbul, Turkey
Test specification:	
Test standard.....:	(EC) No 617/2013
	Amended by (EU) 2019/1782, (EC) 642/2009, (EU) 617/2013, (EU) 801/2013, (EC) No 1275/2008
Test method.....:	EN 62623:2013
Non-standard test method……..:	None
Test Report Form No.....:	(EC) No 617/2013
Test Report Form(s) Originator .....:	GTS
Master TRF.....:	2013-01

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Test item description……..:	**Notebook Computer**
Model/Type reference .....:	HUMA H5 V3.1, HUMA H5 V3.2
Model difference..... :	All models are identical except for model No.
Trade mark..... :	Monster
Ratings .....:	External power supply: Input: 100-240 V~, 50/60 Hz, 1.5 A, output: 19 V ⎓ 3.42 A Portable Computer: 19 V ⎓ 3.42 A
Factory's name and address……..:	Shenzhen Adreamer Technology Co., Ltd. 4/5th Fl, Building F, Fuanna Industrial Park, Qingning No.1 Rd., Qinghu, Longhua, Shenzhen 518109.
Test item particulars:	
Classification of installation and use .....:	Portable
Supply Connection .....:	DC connector
Availability of Standby mode……:	Yes
Availability of off mode……..:	Yes
Availability of display function in standby-mode……:	No
Availability of any condition which does not exceed the applicable power consumption requirements for off mode and/or standby mode when the equipment is connected to the mains power source……..:	Yes
Availability of power management function……...:	Yes

Summary of testing:

The external power supply JHD-AD065B-190342BA-A were seperately comply with COMMISSION REGULATION (EU) 2019/1782. Relevant ecodesign requirements were not considered in this report.

Tests performed:

The sample(s) tested complies with the requirements of COMMISSION REGULATION (EC) No 617/2013 and (EC) No 1275/2008.

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

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.

Copy of marking plate

Remark:

The above marking plate is only a draft artwork to show the product ratings and model No.

Possible test case verdicts:

- test case does not apply to the test object ..... : N (or 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 ..... : 2021-10-21

Date (s) of performance of tests ..... : 2021-10-21 to 2021-10-27

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.

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

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General product information:

Notebook Computer, powered by internal lithium battery or external power sources. For indoor use only.

Hardware		
CPU		I5-1195G7
Memoy	RAM	8GB
LCD	Size (Diagonal)	15.6inch
	Resolution	1920*1080
Storage size	512GB	
Communication	AX201	
AC Adapter	JHD-AD065B-190342BA-A	
Software		
Operating System		Windows10
S/N:		--

COMMISSION REGULATION (EC) No 617/2013 ANNEX II Ecodesign requirements			
Cl.	Requirement-Test	Result-Remark	Verdict
1. Annual total energy consumption (E_{TEC} in kWh/year)			P
1.1.4	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: (a) a minimum of six physical cores in the central processing unit (CPU); (b) discrete graphics card(s) (dGfx) providing total frame buffer bandwidths above 320 GB/s; (c) a minimum 16 GB of system memory; (d) a PSU with a rated output power of at least 1 000 W.		N
1.1, 1.2	For Desktop computer & Intergrated deskdop computer		N
	E_{TEC} = (8 760/1 000) × (0,55 × P off + 0,05 × P sleep + 0,40 × P idle).	P_{off} (W) P_{sleep} (W) P_{idle} (W) E_{TEC} (kWh/year)	N
	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) × (0,55 × P_{off} + 0,45 × P_{idle})		N
1.1	(Stage 2)		N
	$E_{TEC\text{-}MAX}$=$E_{TECbase}$+$E_{TECmemory}$+$E_{TECstorage}$+E_{TECtv}+$E_{TECaudio}$ +$E_{TECgraphic}$ Note: Capability adjustments apply only for items enabled during test.	$E_{TEC\text{-}MAX}$(kWh/year)	N
	Evaluation : E_{TEC}≤ $E_{TEC\text{-}MAX}$		N
1.1.1	$E_{TECbase}$: (a) Category A computer: 133,00; (b) Category B computer: 158,00; (c) Category C computer: 188,00; (d) Category D computer: 211,00.	$E_{TECbase}$(kWh/year)	N
1.1.2	$E_{TECmemory}$: 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);	$E_{TECmemory}$ (kWh/year)	N

<table>
<tr><td colspan="4">COMMISSION REGULATION (EC) No 617/2013
ANNEX II Ecodesign requirements</td></tr>
<tr><td>Cl.</td><td>Requirement-Test</td><td>Result-Remark</td><td>Verdict</td></tr>
<tr><td></td><td>$E_{TECstorage}$: additional internal storage: 25 kWh/year</td><td>$E_{TECstorage}$ (kWh/year)</td><td>N</td></tr>
<tr><td></td><td>E_{TECtv}: discrete television tuner: 15 kWh/year</td><td>E_{TECtv} (kWh/year)</td><td>N</td></tr>
<tr><td></td><td>$E_{TECaudio}$: discrete audio card: 15 kWh/year</td><td>$E_{TECaudio}$ (kWh/year)</td><td>N</td></tr>
<tr><td></td><td>$E_{TECgraphic}$: discrete graphics card (dGfx) for the first and each additional discrete graphics card (dGfx)
First discrete graphics card (dGfx)
<table>
<tr><td>G1</td><td>G2</td><td>G3</td><td>G4</td><td>G5</td><td>G6</td><td>G7</td></tr>
<tr><td>34</td><td>54</td><td>69</td><td>100</td><td>133</td><td>166</td><td>225</td></tr>
</table>
Each additional discrete graphics card (dGfx)
<table>
<tr><td>G1</td><td>G2</td><td>G3</td><td>G4</td><td>G5</td><td>G6</td><td>G7</td></tr>
<tr><td>20</td><td>32</td><td>41</td><td>59</td><td>78</td><td>98</td><td>133</td></tr>
</table></td><td>$E_{TECgraphic}$(kWh/year)</td><td>N</td></tr>
<tr><td>1.2</td><td>(Stage 3)</td><td></td><td>N</td></tr>
<tr><td></td><td>$E_{TEC\text{-}MAX}=E_{TECbase}+E_{TECmemory}+E_{TECstorage}+E_{TECtv}+E_{TECaudio}+E_{TECgraphic}$
Note: Capability adjustments apply only for items enabled during test.</td><td>$E_{TEC\text{-}MAX}$(kWh/year)</td><td>N</td></tr>
<tr><td></td><td>Evaluation : $E_{TEC} \leqslant E_{TEC\text{-}MAX}$</td><td></td><td>N</td></tr>
<tr><td>1.2.1</td><td>$E_{TECbase}$:
(a) Category A computer: 94,00;
(b) Category B computer: 112,00;
(c) Category C computer: 134,00;
(d) Category D computer: 150,00.</td><td>$E_{TECbase}$(kWh/year)</td><td>N</td></tr>
<tr><td>1.2.2</td><td>$E_{TECmemory}$: 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);</td><td>$E_{TECmemory}$ (kWh/year)</td><td>N</td></tr>
<tr><td></td><td>$E_{TECstorage}$: additional internal storage: 25 kWh/year</td><td>$E_{TECstorage}$ (kWh/year)</td><td>N</td></tr>
<tr><td></td><td>E_{TECtv}: discrete television tuner: 15 kWh/year</td><td>E_{TECtv} (kWh/year)</td><td>N</td></tr>
<tr><td></td><td>$E_{TECaudio}$: discrete audio card: 15 kWh/year</td><td>$E_{TECaudio}$ (kWh/year)</td><td>N</td></tr>
</table>

COMMISSION REGULATION (EC) No 617/2013

ANNEX II Ecodesign requirements

Cl.	Requirement-Test	Result-Remark	Verdict
	$E_{TECgraphic}$: discrete graphics card (dGfx) for the first and each additional discrete graphics card (dGfx) 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	$E_{TECgraphic}$(kWh/year)	N
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); (b) discrete graphics card(s) (dGfx) providing total frame buffer bandwidths above 225 GB/s; (c) a minimum 16 GB of system memory.		N
1.3, 1.4	For Notebook computer		P
	E_{TEC}= (8 760/1 000) × (0,60 × P_{off} + 0,10 × P_{sleep} + 0,30 × P_{idle})	P_{off} (W): 0.389 W P_{sleep} (W): 0.392 W P_{idle} (W): 2.35W E_{TEC} (kWh/year): 8.56	P
1.3	(Stage 2)		N
	$E_{TEC-MAX}$= $E_{TECbase}$+$E_{TECmemory}$+$E_{TECstorage}$+E_{TECtv}+$E_{TECgraphic}$ Note: Capability adjustments apply only for items enabled during test.	$E_{TEC-MAX}$(kWh/year)	N
	Evaluation : $E_{TEC} \leqslant E_{TEC-MAX}$		N
1.3.1	$E_{TECbase}$: (a) Category A computer: 36,00; (b) Category B computer: 48,00; (c) Category C computer: 80,50	$E_{TECbase}$(kWh/year)	N
1.3.2	$E_{TECmemory}$: memory: 0.4 kWh/year per GB over base, where base memory is 4 GB;	$E_{TECmemory}$ (kWh/year)	N

<table>
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ANNEX II Ecodesign requirements</td></tr>
<tr><td>Cl.</td><td>Requirement-Test</td><td>Result-Remark</td><td>Verdict</td></tr>
<tr><td></td><td>$E_{TECstorage}$: additional internal storage: 3 kWh/year</td><td>$E_{TECstorage}$ (kWh/year)</td><td>N</td></tr>
<tr><td></td><td>E_{TECtv}: discrete television tuner: 2.1 kWh/year</td><td>E_{TECtv} (kWh/year)</td><td>N</td></tr>
<tr><td></td><td>$E_{TECgraphic}$: discrete graphics card (dGfx) for the first and each additional discrete graphics card (dGfx)
First discrete graphics card (dGfx)
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<tr><td>G1</td><td>G2</td><td>G3</td><td>G4</td><td>G5</td><td>G6</td><td>G7</td></tr>
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<tr><td>7</td><td>12</td><td>15</td><td>22</td><td>29</td><td>36</td><td>66</td></tr>
</table></td><td>$E_{TECgraphic}$(kWh/year)</td><td>N</td></tr>
<tr><td>1.4</td><td>(Stage 3)</td><td></td><td>P</td></tr>
<tr><td></td><td>$E_{TEC\text{-}MAX}$= $E_{TECbase}$+$E_{TECmemory}$+$E_{TECstorage}$+E_{TECtv}+$E_{TECgraphic}$
Note: Capability adjustments apply only for items enabled during test.</td><td>$E_{TEC\text{-}MAX}$(kWh/year): 8.56</td><td>P</td></tr>
<tr><td></td><td>Evaluation : $E_{TEC} \leqslant E_{TEC\text{-}MAX}$</td><td></td><td>N</td></tr>
<tr><td>1.4.1</td><td>$E_{TECbase}$:
(a) Category A computer: 27.00;
(b) Category B computer: 36.00;
(c) Category C computer: 60.50;</td><td>See above</td><td>P</td></tr>
<tr><td>1.4.2</td><td>$E_{TECmemory}$: memory: 0.4 kWh/year per GB over base, where base memory is 4 GB;</td><td>$E_{TECmemory}$ (kWh/year):</td><td>N</td></tr>
<tr><td></td><td>$E_{TECstorage}$: additional internal storage: 3 kWh/year</td><td>$E_{TECstorage}$ (kWh/year)</td><td>N</td></tr>
<tr><td></td><td>E_{TECtv}: discrete television tuner: 2.1 kWh/year</td><td>E_{TECtv} (kWh/year)</td><td>N</td></tr>
</table>

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Cl.	Requirement-Test	Result-Remark	Verdict
	$E_{TECgraphic}$: discrete graphics card (dGfx) for the first and each additional discrete graphics card (dGfx) 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	$E_{TECgraphic}$(kWh/year)	N
2.	Sleep mode (Stage 2)		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		N
2.4	Where a product is placed on the market with a WOL functionality enabled in sleep mode:		N
	(a) an additional allowance of 0,70 W can be applied;		N
	(b) it must be tested with a WOL functionality both enabled and disabled and must comply with both requirements.		N
2.5	Where a product is placed on the market without Ethernet capability, it shall be tested without WOL enabled.		N
3.	Lowest power state (Stage 1)		P
3.1	Power demand in the lowest power state shall not exceed 0,50 W.		P
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

COMMISSION REGULATION (EC) No 617/2013 ANNEX II Ecodesign requirements			
Cl.	Requirement-Test	Result-Remark	Verdict
4.	Off mode (Stage 2)		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:		N
	(a) an additional allowance of 0,70 W can be applied;		N
	(b) it must be tested with a WOL functionality both enabled and disabled and must comply with both requirements.		N
4.4	Where a product is placed on the market without Ethernet capability, it shall be tested without WOL enabled.		N
5.	Internal power supply efficiency (Stage 2)		N
5.1	All computer internal power supplies shall not perform at less than:		N
	(a) 85 % efficiency at 50 % of rated output power;		N
	(b) 82 % efficiency at 20 % and 100 % of rated output power;		N
	(c) power factor = 0,9 at 100 % of rated output power.		N
	Internal power supplies with a maximum rated output power of less than 75 W are exempt from the power factor requirement.		N
6.	Power management enabling		N
6.1	(Stage 1):		N
	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.		N
6.2	(Stage 2):		N

COMMISSION REGULATION (EC) No 617/2013 ANNEX II Ecodesign requirements			
Cl.	Requirement-Test	Result-Remark	Verdict
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.		N
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.	t: s	N
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.	t: min	N
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
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.		N
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.		N
7.	Information to be provided by manufacturers		P
7.1	(Stage 2)	Manufacturers shall provide in the technical documention and make publicly available on freeaccess websites	P
7.1.1	Manufacturers shall provide in the technical documentation and make publicly available on free-access websites the following information acc. To 7.1.1 (a) to (z)		P
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 information provided.		P

COMMISSION REGULATION (EC) No 617/2013 ANNEX II Ecodesign requirements			
Cl.	Requirement-Test	Result-Remark	Verdict
7.2	Notebook computer only (Stage 2)	Manufacturers shall provide in the technical documention and make publicly available on freeaccess websites	P
	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'.		P
	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.		P

COMMISSION REGULATION (EC) No 1275/2008, (EU) 801/2013 ANNEX II Ecodesign requirements			
Cl.	Requirement-Test	Result-Remark	Verdict
1 & 2	Power consumption in 'off mode'		--
1(a) & 2(a)	Power consumption of equipment in any off-mode condition	See appended table	P
	Stage 1 limit: ≤ 1.00 W		N
	Stage 2 limit: ≤ 0.50 W		P
1(b) & 2(b)	Power consumption in 'standby mode(s)'		--
	The power consumption of equipment in any condition providing only a reactivation function, or providing only a reactivation function and a mere indication of enabled reactivation function		P
	Stage 1 limit: ≤ 1.00 W		N
	Stage 2 limit: ≤ 0.50 W		P
	The power consumption of equipment in any condition providing only information or status display, or providing only a combination of reactivation function and information or status display		N
	Stage 1 limit: ≤ 2.00 W		N
	Stage 2 limit: ≤ 1.00 W		N
1(c) & 2(c)	Availability of off mode and/or standby mode		--
	Equipment shall, except where this is inappropriate for the intended use, provide off mode and/or standby mode, and/or another condition which does not exceed the applicable power consumption requirements for off mode and/or standby mode when the equipment is connected to the mains power source		P
2(d)	Power management for all equipment other than networked equipment		--
	Equipment shall, unless inappropriate for the intended use, offer a power management function or a similar function. When equipment is not providing the main function, and other energy- using product(s) are not dependent on its functions, the power management function shall switch equipment after the shortest possible period of time appropriate for the intended use of the equipment, automatically into: — standby mode, or — off mode, or — another condition which does not exceed the applicable power consumption requirements for off mode and/or standby mode when the equipment is connected to the mains power source The power management function shall be activated.		P

COMMISSION REGULATION (EC) No 1275/2008, (EU) 801/2013 ANNEX II Ecodesign requirements			
Cl.	Requirement-Test	Result-Remark	Verdict
3(a) **As of 1 January 2015**	Possibility of deactivating wireless network connection(s)		--
	Any networked equipment that can be connected to a wireless network shall offer the user the possibility to deactivate the wireless network connection(s). This requirement does not apply to products which rely on a single wireless network connection for intended use and have no wired network connection.		N
3(b)	Power management for networked equipment		--
	Equipment shall, unless inappropriate for the intended use, offer a power management function or a similar function. When equipment is not providing a main function, and other energy-using product(s) are not dependent on its functions, the power management function shall switch equipment after the shortest possible period of time appropriate for the intended use of the equipment, automatically into a condition having networked standby. In a condition providing networked standby, the power management function may switch equipment automatically into standby mode or off mode or another condition which does not exceed the applicable power consumption requirements for standby and/or off mode. The power management function, or a similar function, shall be available for all network ports of the networked equipment The power management function, or a similar function, shall be activated, unless all network ports are deactivated. In that latter case the power management function, or a similar function, shall be activated if any of the network ports is activated.		P
	The default period of time after which the power management function, or a similar function, switches the equipment automatically into a condition providing networked standby shall not exceed 20 minutes.	15 min.	P
3(c)	Networked equipment that has one or more standby modes shall comply with the requirements for these standby mode(s) when all network ports are deactivated.		N
3(d)	Networked equipment other than HiNA equipment shall comply with the provisions under 2(d) when all network ports are deactivated.		N
3(e)	Power consumption in a condition providing networked standby		N

COMMISSION REGULATION (EC) No 1275/2008, (EU) 801/2013 ANNEX II Ecodesign requirements			
Cl.	Requirement-Test	Result-Remark	Verdict
	The power consumption of HiNA equipment or equipment with HiNA functionality in a condition providing networked standby into which the equipment is switched by the power management function, or a similar function shall not exceed 12 W		N
	The power consumption of other networked equipment in a condition providing networked standby into which the equipment is switched by the power management function, or a similar function, shall not exceed 6 W	Idle state mode(with display powered down): 2.35W	P
	The power consumption limits as stipulated in point (e) shall not apply to: - printing equipment with a power supply of a rated power larger than 750 W - large format printing equipment - tele-presence systems - desktop thin clients - workstations - mobile workstations - small-scale servers - computer servers		N
4 **As of 1 January 2017**	In addition to the requirements set out in point 3(a) and (b), the following provisions shall apply		--
4(a)	Networked equipment that has one or more standby mode(s) shall comply with the requirements for these standby mode(s) when all wired network ports are disconnected and when all wireless network ports are deactivated		N
4(b)	Networked equipment other than HiNA equipment shall comply with the provisions under 2(d) when all wired network ports are disconnected and when all wireless network ports are deactivated		N
4(c)	Power consumption in a condition providing “networked standby”		N
	The power consumption of HiNA equipment or equipment with HiNA functionality, in a condition providing networked standby into which the equipment is switched by the power management function, or a similar function, shall not exceed 8 W		N
	The power consumption of other networked equipment in a condition providing networked standby into which the equipment is switched by the power management function, or a similar function, shall not exceed 3 W		N

COMMISSION REGULATION (EC) No 1275/2008, (EU) 801/2013 ANNEX II Ecodesign requirements			
Cl.	Requirement-Test	Result-Remark	Verdict
	The power consumption limits as stipulated in point (c) shall not apply to: - large format printing equipment - desktop thin clients - workstations - mobile workstations - small-scale servers - computer servers		N
5 **As of 1 January 2019**	In addition to the requirements set out in point 3(a) and (b) and point 4(a), (b) and (c), the following provision shall apply for networked equipment other than HiNA equipment or other than equipment with HiNA-functionality		--
	The power consumption of networked equipment other than HiNA equipment or other than equipment with HiNA functionality, in a condition providing networked standby into which the equipment is switched by the power management function, or a similar function, shall not exceed 2 W	Networked standby mode:0.55W	P
6 **As of 1 January 2015**	For coffee machines, the delay time after which the product switches automatically into the modes and conditions referred to in Annex II, point 2, paragraph (d) shall be as follows:		--
	- for domestic drip filter coffee machines storing the coffee in an insulated jug, a maximum of five minutes after completion of the last brewing cycle or 30 minutes after completion of a descaling or self-cleaning process		N
	- for domestic drip filter coffee machines storing the coffee in a non-insulated jug, a maximum of 40 minutes after completion of the last brewing cycle, or 30 minutes after completion of a descaling or self-cleaning process		N
	- for domestic coffee machines other than drip filter coffee machines, a maximum of 30 minutes after completion of the last brewing cycle, or a maximum of 30 minutes after activation of the heating element, or a maximum of 60 minutes after activation of the cup preheating function, or a maximum of 30 minutes after completion of a descaling or self-cleaning process, unless an alarm has been triggered requiring users' intervention to prevent possible damage or accident		N
	Until the above date the ecodesign requirements set out in Annex II.2.d shall not apply		N

Table 1	**Power measurement**
Test ambient temperature (^{o}C)……..:	25.0
Test voltage (V)……..……...……...:	230.0 V~
Frequency (Hz)……...……...……...:	50.0
Air speed (m/s)……...……...……...:	0.1
(THD) %…….....:	0.7 %
Operating mode(s)	Measured (W)
Off-mode…….....:	0.389
Standby-mode……...…….....:	0.392
idle state –mode……:	2.35
Networked standby mode……:	0.55
Remark:	

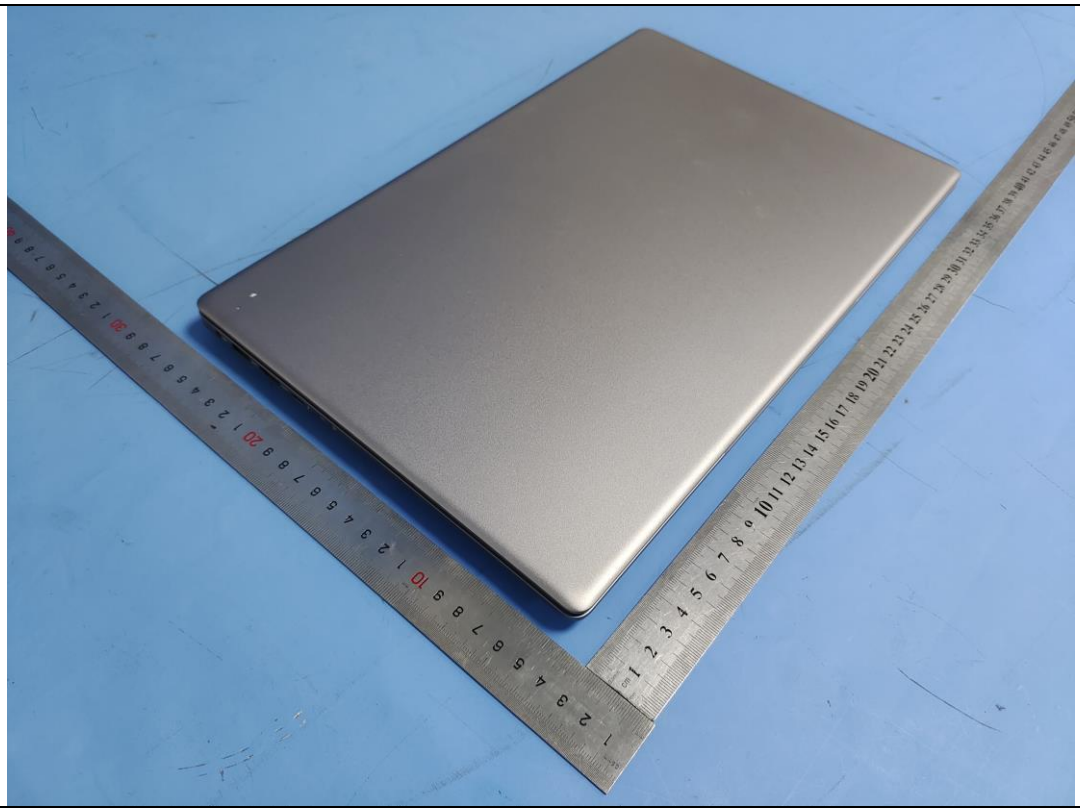
Table 2	**Test instruments**			
Name	Brand	Model	Last cal. date	Next cal. date
Digital Power meter	YOKOGAWA	WT210	2021-05-06	2022-05-05
Aneo meter	BENETECHCO	GM8901	2021-05-06	2022-05-05
AC Power supply	KIKUSUI	PCR 1000	--	--

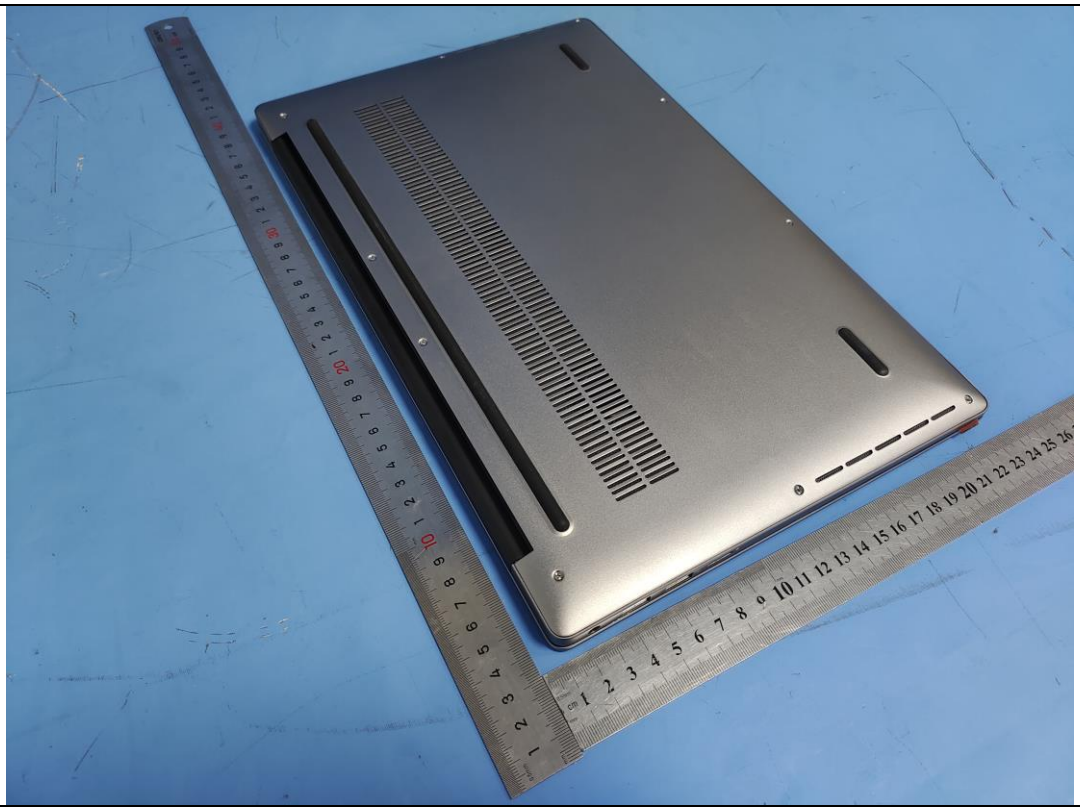
Technical Documentation of (EU) No 617/2013

Product type	Notebook computer
Product category	A
Manufacturer name, address	Shenzhen IP3 Century Intelligent Technology CO., Ltd. Unit A1, 11F, Block A, TongfangInformation Harbor, No. 11, Langshan Road, Hi-Tech Park(North), Nanshan District, Shenzhen, China
Product model number	TN1-156M-SCD
Monster model	HUMA H5 V3.1、HUMA H5 V3.2
Year of manufacture	2021
ETEC value (kWh) and capability adjustments applied when all discrete graphics card (dGfx) are disabled and if the system is tested with switchable graphics mode with UMA driving the display	ETEC (kWh/year): 8.56
ETEC value (kWh) and capability adjustments applied when all discrete graphics card (dGfx) are enabled	Not applicable
Idle state power demand (Watts)	2.35W
Sleep mode power demand (Watts)	0.392W
Sleep mode with WOL enabled power demand (Watts) (where enabled)	Not applicable
Off mode power demand (Watts)	0.389W
Off mode with WOL enabled power demand (Watts) (where enabled)	Not applicable
Internal power supply (IPS) efficiency at 10 %, 20 %, 50 % and 100 % of rated output power	Not applicable
External power supply (EPS) efficiency	The power supply shall meet DOE VI request. Four point average efficiency at 25%, 50%, 75% and 100% loading shall be more than 88% after burn in 30 minutes measure at 115V/60Hz and 230Vac/50Hz The efficiency at 10% loading shall be more than 79% measure at 115V/60Hz and 230Vac/50Hz
Noise levels (the declared A-weighted sound power level, LWAd) of the computer	Not applicable
Minimum number of loading cycles that the batteries can withstand	500cycles
The external package of the notebook provides the information, "The battery in this product cannot be easily replaced by users themselves."	Yes
For products with an integrated display, the total content of mercury is	0 mg
Measurement methodology for ETEC	ETEC = (8760/1 000) × (0.60 × Poff + 0.10 × Psleep + 0.30 × Pidle)
Measurement methodology for idle mode	6 TEST PROCEDURES FOR ALL PRODUCTS 6.1 UUT Preparation UUT preparation shall be performed according to IEC 62623, Ed.1.0, 2012-10, Section 5.2: Test Setup; with the additional guidance in Section 5 of this document. 6.2 Sleep Mode Testing Sleep Mode power shall be measured according to IEC 62623, Ed.1.0, 2012-10, Section 5.3.3: Measuring Sleep Mode; with the additional guidance in Section 5 of this document. 6.3 Long Idle Mode Testing Long Idle Mode power shall be measured according to IEC 62623, Ed.1.0, 2012-10, Section 5.3.4: Measuring Long Idle Mode; with the additional guidance in Section 5 of this document. *ENERGY STAR® Program Requirements Product Specification for Computers Final Test Method Rev. October-2019
Measurement methodology for sleep mode	
Measurement methodology for off mode	
Measurement methodology for IPS efficiency	Not applicable
Measurement methodology for EPS efficiency	The power supply shall meet DOE VI request. Four point average efficiency at 25%, 50%, 75% and 100% loading shall be more than 88% after burn in 30 minutes measure at 115V/60Hz and 230Vac/50Hz The efficiency at 10% loading shall be more than 79% measure at 115V/60Hz and 230Vac/50Hz
Measurement methodology for noise level	Not applicable
Measurement methodology for battery loading cycles	500 Cycles by 0.5C Charge and 0.5C Discharge. After 500 Cycles with 0.5C Charge and 0.2C Discharge at 25℃

Sequence of steps for achieving a stable condition with respect to power demand	UUT preparation shall be performed according to IEC 62623, Ed.1.0, 2012-10, Section 5.2: Test Setup; with the additional guidance in Section 5 of this document. 6.2 Sleep Mode Testing 6.3 Long Idle Mode Testing 6.5 Off Mode Testing
Description of how sleep mode was selected or programmed	UUT preparation shall be performed according to IEC 62623, Ed.1.0, 2012-10, Section 5.2: Test Setup; with the additional guidance in Section 5 of this document. 6.2 Sleep Mode Testing
Description of how off mode was selected or programmed	UUT preparation shall be performed according to IEC 62623, Ed.1.0, 2012-10, Section 5.2: Test Setup; with the additional guidance in Section 5 of this document. 6.5 Off Mode Testing
Sequence of events required to reach the mode where the equipment automatically changes to sleep mode	ENERGY STAR® Program Requirements Product Specification for Computers, Eligibility Criteria Version 8.0 1.D.4 Sleep Mode.
Sequence of events required to reach the mode where the equipment automatically changes to off mode	Not applicable
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	30 minutes.
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	30 minutes.
The length of time before the display sleep mode is set to activate after user inactivity	10 minutes.
User information on the energy-saving potential of power management functionality	http://www.energystar.gov/index.cfm?c=power_mgt.pr_power_mgt_users
User information on how to enable the power management functionality	http://www.energystar.gov/index.cfm?c=power_mgt.pr_power_mgt_users
Test parameter for test voltage	230V
Test parameter for frequency	50Hz
Test parameter for total harmonic distortion of the electricity supply system	0.7%
Test parameter for information and documentation on the instrumentation, set-up and circuits used for electrical testing	Digital Power meter: YOKOGAWA 210 AC Power supply: KIKUSUI PCR 1000

Photo documents:





Rechargeable Li-ion Polymer Battery 可充电聚合物锂离子电池组
Battery Model 电池组型号：AEC508865-3S1P
3ICP5/88/65
Rated Capacity 额定容量：4700mAh/53.58Wh
Rated Voltage 额定电压：11.4V
Limited Charging Voltage 充电限制电压：13.05V
Manufacturer:Apower Electronics Co.,Ltd.
制造商：广东国光电子有限公司
中国制造/Made in China
Do not disassemble,Do not impact,Do not crush,
Do not dispose in fire,Do not short-circuit.
If severe swelling occurs, Do not continue to use.
Do not expose to high temperature.
Do not use after soaking!
禁止拆解、撞击、挤压、投入火中或短路。
若出现严重鼓胀，请勿继续使用。
请勿置于高温环境中，浸水后禁止使用!

AC/DC ADAPTER

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