TEST REPORT
IEC 62623
Desktop and notebook computers – Measurement of energy consumption

Report Number. .....:	**25ITC0708050S**
Tested by (+ signature) .....:	Max Zhuang
Reviewed by (+ signature) .....:	Apple Huang
Approved by (+ signature) .....:	Sky Hu
Date of issue.....:	11 July 2025
Total number of pages	13

Name of Testing Laboratory preparing the Report.....:	**Shenzhen iTC Product Testing Co., Ltd.**
Address .....:	103, Building 1 South, Dayang Industrial Zone, Lougang Community, Songgang Street, Bao'an District, Shenzhen, Guandong, China
Applicant's name.....:	**SHENZHEN ITA TOUCH TECHNOLOGY CO.,LTD.**
Address .....:	**#402, Building A54, Xinwei Fourth Industrial Zone, Matian Street.Guangming District, 518106 Shenzhen, China**
Test specification:	
Standard.....:	IEC 62623: 2012 (First Edition)
Test procedure .....:	Type test
Non-standard test method.....:	N/A
Test Report Form No.....:	IEC62623A
Test Report Form(s) Originator .....:	UL(US)
Master TRF.....:	Dated 2014-06

General disclaimer:

The test results presented in this report relate only to the object tested.
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Test item description ..... :	Interactive Flat Panel Smart Whiteboard Touch Screen LCD Digital Display
Trade Mark ..... :	/
Manufacturer ..... :	SHENZHEN ITA TOUCH TECHNOLOGY CO.,LTD. #402, Building A54, Xinwei Fourth Industrial Zone, Matian Street.Guangming District, 518106 Shenzhen, China
Model/Type reference ..... :	HT-75D S Series, HT-55D, HT-60D, HT-65D, HT-70D, HT-75D, HT-80D, HT-85D, HT-86D, HT-92D, HT-98D, HT-105D, HT-110D, HT-150D, HT-101D, HT-15D, HT-17D, HT-19D, HT-22D, HT-24D, HT-27D, HT-32D, HT-43D, HT-47D, HT-49D, HT-50D (For E / S /M /F /KN /NE /NT Series)
Ratings ..... :	Input: 110-240V～, 50/60Hz, 4A

List of Attachments (including a total number of pages in each attachment):

Attachment 1: Photo documentation (4 pages).

Summary of testing:

Tests performed (name of test and test clause):

5.3.2	Measuring off mode
5.3.3	Measuring sleep mode
5.3.4	Measuring long idle mode
5.3.5	Measuring short idle mode

Testing location:

103, Building 1 South, Dayang Industrial Zone, Lougang Community, Songgang Street, Bao'an District, Shenzhen, Guandong, China

Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

Interactive Flat Panel Smart Whiteboard Touch Screen LCD Digital Display

Model: HT-75D S Series

Power Input: 110-240V ~ , 50/60Hz, 4A

SHENZHEN ITA TOUCH TECHNOLOGY CO.,LTD.

Test item particulars:	
Product description (brand, model, serial number) ....:	HT-75D S Series
Country of manufacture, date of manufacture .....:	China, 2025-01-01
Product type .....:	☒ Desktop ☐ Notebook ☐ Integrated Desktop
Number of physical cores .....:	8
Channels of memory.....:	1
System memory .....:	8G
System fan .....:	☒ Yes ☐ No
Graphics subsystem attributes .....:	☒ Integrated ☐ Discrete
Operating system.....:	☒ Windows ☐ Mac OS ☐ Other:
Operating system version.....:	
For notebook computers:	
Screen size .....:	
Battery pack removed during test .....:	☐ Yes ☐ No
-..... If no, fully charged battery pack used.....:	☐ Yes
EUT category (include date extension) .....:	
Applied TEC adders.....:	
Ratings:	
Rated voltage .....:	110-240V～
Rated frequency.....:	50/60Hz
Rated current input .....:	4A
Rated wattage input.....:	/
Additional product information .....:	
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.....:	July 07, 2025
Date (s) of performance of tests.....:	July 11, 2025

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.

Manufacturer's Declaration per sub-clause 4.2.5 of IECEE 02:

The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided ..... :

☐ **Yes**
☒ **Not applicable**

When differences exist; they shall be identified in the General product information section.

Name and address of factory (ies) ..... : Same as applicant

General product information:

--The apparatus is a Interactive Flat Panel Smart Whiteboard Touch Screen LCD Digital Display

IEC 62623			
Clause	Requirement + Test	Result - Remark	Verdict
5	**TEST PROCEDURE AND CONDITIONS, CATEGORISATION, TEC FORMULA, METER SPECIFICATIONS AND RESULTS REPORTING**		P
5.2	**Test Setup**		P
5.2a)	The EUT configured according to instructions provided with the product (unless otherwise stated in this test procedure), including all hardware accessories and software shipped by default		P
	The EUT also configured using the following requirements for all tests ..... :		P
(1)	Desktop and integrated desktop computers shipped without an input device configured with a manufacturer's recommended input device (such as mouse and/or keyboard) with no other external peripherals connected ..... :		P
(2)	Desktop computers configured with an external computer display (the external display energy consumption not included as part of the TEC calculation) ..... :		N/A
(3)	Notebook computers need not include a separate keyboard or mouse when equipped with an integrated pointing device or digitizer..... :		N/A
(4)	Notebook computers connected to the mains power source using the EPS shipped with the product with battery pack(s) removed for all tests		N/A
	For an EUT where operation without a battery pack is not a supported configuration, the test performed with fully charged battery pack(s) installed and with this configuration reported in the test results ..... :		N/A
(5)	The screen configured with a "desktop background" (wallpaper) of a solid colour defined by a bitmap set to the RGB values of 130, 130, 130 and with the screen brightness set as-shipped or to a specified luminance level condition, as appropriate ..... :		N/A
(6)	A notebook and integrated desktop computer include power used by the integrated display in reported results..... :		N/A
(7)	The sleep timer of the EUT disabled or set to 30 min to prevent the EUT from entering the sleep state during the idle or active tests..... :		P
5.2b)	A true r.m.s. watt meter that meets the meter requirements in 5.7 placed between the mains power supply and the EUT power supply		P

IEC 62623			
Clause	Requirement + Test	Result - Remark	Verdict
	No power strips or UPS units connected between the meter and the EUT, meter remaining in place until all required power mode data was recorded .. :		P
	The mains power supply met requirements in 5.4		P
5.2c)	For sleep, long idle, short idle and the optional active measurements, the EUT energy consumption measured with network connectivity in one of the two states described below		N/A
(1)	For EUT with Ethernet support, the EUT connected to an active network switch that supports the highest link speed supported by the EUT (the network switch doesn't need to be connected to a live network). Only a single network connection made in case of EUT with multiple network connections, supporting the minimum requirements needed to support additional power management functions that are supported by the EUT..... :		N/A
(2)	For EUT that does not support Ethernet, but supports some other sort of wired network connectivity, that network turned on and remained in a connected state ..... :		N/A
(3)	For EUT with only wireless connectivity, a live wireless connection to a wireless router or network access point, which supports the highest and lowest data speeds of the client radio, maintained for the duration of testing..... :		N/A
5.2d)	The EUT description recorded as required in 5.10 :		P
5.2e)	The test conditions measured as defined in 5.4 and recorded as required in 5.10 ..... :		P
5.2f)	The ambient light conditions of the test room measured using a meter that meets requirements in 5.9 and is set to the levels called for in 5.4 ..... :		P
5.3	**Test Procedure**		P
5.3.2	For measurement of the off mode (clause 4.2.1) the meter set to begin accumulating true power values at an interval of one or more readings per second; power values accumulated for 5 min and the average (arithmetic mean) value observed during that 5 min period was recorded as *P*off..... :	See appended table 5.3.2	P
5.3.3	For measurement of the sleep mode (clause 4.2.3) the accumulation of true power values taken at an interval of one or more readings per second; the power values were accumulated for 5 min and the average (arithmetic mean) value observed during that 5 min period was recorded as *P*sleep .....:	See appended table 5.3.3	N/A

IEC 62623			
Clause	Requirement + Test	Result - Remark	Verdict
	If testing both **WoL** enabled and **WoL** disabled for sleep, the EUT is awaken and the **WoL** changed from sleep setting through the operating system settings or by other means; the EUT placed back in sleep mode and test was repeated, recording sleep power necessary for this alternate configuration as *P*sleepWoL .....:	See appended table 5.3.3	P
5.3.4	For measurement of the long idle mode, the EUT logged in with the operating system fully loaded and the standard operational desktop screen or equivalent displayed, the EUT allowed to enter the long idle mode (clause 4.2.8.4). The accumulation of true power values started at an interval of one or more readings per second with power values accumulated for 5 min and recorded the average (arithmetic mean) value observed during that 5 min period as *P*idle.....:	See appended table 5.3.4	P
5.3.5	For measurement of the short idle mode (clause 4.2.8.2), the EUT is logged in with the standard operational desktop background screen or equivalent with the image scaled to completely fill the display area, set to at least a brightness level of 90 cd/m^2 for a notebook computer or at least 150 cd/m^2 for integrated desktop computers, or to the nearest achievable brightness level		P
	With the EUT in the short idle mode, the accumulation of true power values at an interval of one or more readings per second is taken for 5 min and the average (arithmetic mean) value observed during that 5 min period as recorded as Psidle.....:	See appended table 5.3.5	N/A
5.3.6	For measurement of the active mode (clause 4.2.8.2), the EUT logged in with the operating system fully loaded and with the standard operational desktop screen or equivalent; the EUT is placed in short idle mode		N/A
	With the active workload started, the true power values at an interval of one or more readings per second are collected and when the active workload indicates it has finished, the average power as is recorded as *P*work.....:	See appended table 5.3.6	N/A
5.6	**Annualized energy consumption formulas**		P
5.6.2	Estimated annualized energy consumption formula (estimated active workload)..... :	See appended table 5.6.2	P
5.6.3	Estimated annualized energy consumption formula (with an active workload) ..... :	See appended table 5.6.3	N/A

IEC 62623			
Clause	Requirement + Test	Result - Remark	Verdict

5.3.2	TABLE: Measuring off mode		P
	Ambient Temperature (°C) ..... :		—
	Relative Humidity (%)..... :		—

Voltage (V_{AC})	Frequency (Hz)	Voltage THD (%)	P_{OFF} (W)
100	50	0.79	0.528
100	60	0.79	0.540
115	60	0.79	0.540
230	50	0.79	0.588

Supplementary information:

5.3.3	TABLE: Measuring sleep mode		P
	Ambient Temperature (°C) ..... :		—
	Relative Humidity (%) ..... :		—

Voltage (V_{AC})	Frequency (Hz)	Voltage THD (%)	P_{SLEEP} (W)
100	50	0.79	1.128
100	60	0.79	1.128
115	60	0.79	1.140
230	50	0.79	1.188

	Measuring sleep mode for alternate configuration		
	Ambient Temperature (°C) ..... :		—
	Relative Humidity (%) ..... :		—

Voltage (V_{AC})	Frequency (Hz)	Voltage THD (%)	P_{SLEEP}WoL (W)
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Supplementary information:

IEC 62623			
Clause	Requirement + Test	Result - Remark	Verdict

5.3.4	TABLE: Measuring long idle mode		P
	Ambient Temperature (°C) .....:		—
	Relative Humidity (%) .....:		—

Voltage (V_{AC})	Frequency (Hz)	Voltage THD (%)	P_{IDLE} (W)
100	50	0.79	90.996
100	60	0.79	90.960
115	60	0.79	100.056
230	50	0.79	100.092
Supplementary information:			

5.3.5	TABLE: Measuring short idle mode		
	Ambient Temperature (°C) .....:		—
	Relative Humidity (%) .....:		—

Voltage (V_{AC})	Frequency (Hz)	Voltage THD (%)	P_{SIDLE} (W)
100	50	0.79	111.768
100	60	0.79	112.672
115	60	0.79	110.852
230	50	0.79	110.224
Supplementary information:			

5.3.6	TABLE: Measuring active mode (optional)		
	Ambient Temperature (°C) ..... :		—
	Relative Humidity (%) ..... :		—

Voltage (V_{AC})	Frequency (Hz)	Voltage THD (%)	P_{IDLE} (W)
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Supplementary information:			

(EU) No 617/2013			
Clause	Clause	Clause	Clause

ANNEX II	**Ecodesign requirements and timetable**		P
1.2	**From 1 January 2016Test Setup**		P
1.2.1	The following revisions to the annual total energy consumption specified in point 1.1.1 apply: (a) Category A computer: 94,00; (b) Category B computer: 112,00; (c) Category C computer: 134,00; (d) Category D computer: 150,00.	Category C computer (106.78W<134W)	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

	dGfx category	TEC allowance (kWh/year)
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

Attachment 1: Photo documentation

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