

NCTS-M8 WIRED MOUSE

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System Requirements

Microsoft Windows XP Windows 7 Windows 10 Windows 11

Reliability testing at high temperature and humidity

Test environment:

- 1) Temperature: $60^{\circ}\text{C} \pm 2^{\circ}\text{C}$
- 2) Humidity: 93% relative humidity is $\pm 5\%\text{RH}$
- 3) Time: 96H

Judging criteria:

- 1) After 96 hours of testing, the sample was brought back to room temperature of 25°C , and the sample was tested two hours later
- 2) Function, appearance and structure should be maintained in good condition. In addition, there should be no obvious corrosion inside the sample

Reliability testing at Low Temperature

Test environment

- 1) Temperature: $-40^{\circ}\text{C} \pm 2^{\circ}\text{C}$
- 2) Time: 96H

Judging criteria:

- 1) After 96 hours of testing, the sample was brought back to room temperature of 25°C , and the sample was tested two hours later
- 2) Function, appearance and structure should be maintained in good condition. In addition, there should be no obvious corrosion inside the sample



NCTS-M8

WIRED MOUSE

Technical Specifications

Model: NCTS-M8

Size and color		Mouse electrical parameters	-3button mouse: left/middle/right button
Height	1±39mm	Roller encoder	11mm high, rolling in 2 directions
Length	1±117 mm		- Left/Middle/right: Press to display, release to clear the display is normal.
Width	1±62 mm		- Roller: Move forward/back one space to display the corresponding action one space.
Mouse top cover	ABS black		
Mouse center cover	ABS black		
Lower mouse cover	ABS black	Rated voltage and current	
NET WEIGHT		Power supply	Vcc=5.0V
Mouse net weight (including wire)	87g10±g roller	Wake mode	Click or move the mouse
Roller diameter	25mm	Rated current	<100mA (white paper)
Width	8 mm	USB sleep current	<2.5mA
Material	ABS	Wire	PVC material 1500mm long 2.8mm USB cable
Roller rolling force (normal mode)	20 30 gf-cmPCB	IC	
Material	94 HB	IC:8733B	Electro-optic induction, with red light
Flame Rating	94 VO	Moving speed	Max. 60 inches per second
Logo		Electrical parameters	
Method	Screen printing	Interface	USB
Color	Silver/white	Rated voltage and current	Power supply: 4.4V ~ 25 ...5VDC - Current :<100 mA. Standby current <2.5mA
		PID/VID/character string	VID: 1A81 / PID: 222b / character string: Gaming Mouse

Reliability testing at Low temperature

Test environment

- 1) Temperature: -10°C ±2°C
- 2) Time: 8H

Judging criteria:

- 1) Store the sample at -10°C ±2°C for 8 hours and then take out the sample
- 2) No electrical characteristics, bad structure and appearance. For wired products, there is no damage on the wire after the SP part is turned over

Temperature Shock Test

Test environment

- 1) Low temperature: -25 °C
- 2) High temperature: 65 °C (93%RH)
- 3) Cycle: 23 times
- 4) Stay at -25°C- 65°C for 90 minutes (relative humidity 93%)

Judging criteria

- 1) After 23 cycles of testing, the product is placed in an environment at 25°C for 2 hours and the sample is taken out.
- 2) Function, appearance and structure should be kept normal. There should be no obvious corrosion inside the sample

Product vibration test

Test environment

- 1) Temperature: -10°C ±2°C
- 2) Time: 8H

Judging criteria:

- 1) Store the sample at -10°C ±2°C for 8 hours and then take out the sample
- 2) No electrical characteristics, bad structure and appearance. For wired products, there is no damage on the wire after the SP part is turned over

Vibration test of packaged products

Test environment

Fixed frequency vibration test

- 1) Vibration frequency: 25Hz
- 2) Displacement amplitude: 2mm
- 3) Vibration time: 40 minutes

Sweep vibration test

- 1) Vibration frequency range: 5 ~ 35 ~ 5Hz
- 2) Displacement amplitude: 2mm
- 3) Total number of cycles: 12
- 4) Vibration time: 40 minutes

Judging criteria:

- 1) No obvious scratches
- 2) Function and structure remain normal

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Bare mouse drop test

Test environment

Mouse and other parts

- 1) Drop height range: 80 CM
- 2) Falling to the ground: steel plate
- 3) Drop mode: once up, down, left, and back
- 4) Wireless keyboard/mouse requires a battery

Judging criteria:

- 1) There is no fault
- 2) Not whitened or damaged
- 3) Maximum number of key cap drops: 3 pcs (including space bar)
- 4) For wireless keyboard/mouse: battery and battery cover are allowed to drop. The falling part is not allowed to break

Drop test of packaged products

Test environment

Packaged product

- 1) Drop height: 800mm
- 2) Direction: down, left and right before and after six faces fall in turn
- 3) Ground material: steel plate

Judging criteria

- 1) Blister packaging/gift box ≤ 2 cm crack length, each packaging product can only be made of one crack
- 2) The function, appearance and structure of the internal product should be maintained well
- 3) Accessories cannot be moved out of the specified location

Packing carton

- 1) Direction: six faces, one corner and three sides
- 2) Ground material: steel plate
- 3) Height range:
 - ≤ 15 kg 100 CM
 - $> 15 \leq 30$ kg 80 CM
 - $> 30 \leq 40$ kg 60 CM

Drop frequency:

Judging criteria:

- 1) The carton is required to have no cracks, and the position of the drop is allowed to have folds
- 2) The internal packaging is not damaged
- 3) The function, appearance and structure of the internal product should be maintained well
- 4) Accessories cannot be moved out of the specified location

5.9 Key life test

Test environment

- 1) Test load: $120g \pm 5g$ (button)
 $120g \sim 150g$ (conventional rubber)
 $120g \pm 5g$ (special rubber)
 - 2) Test rate: 150 ± 10 times/min
 - 3) Test times: left and right buttons: 3 million times, DPI keys, side keys: 1,000,000 times, middle keys: 300,000 times.

