



CE. FCC CERTIFIED

WIRED OPTICAL

USB MOUSE

model: M-30

cost effective with
unparallel stable
quality coming
with comfortable
and ergonomic
holding design.

accurate response
to free your mind
soaring the
computer world.



SPECIFICATIONS

WHY M-30?

1 Physical specifications

Mouse size: Length: 110.00mm Width: 64.20mm Height: 38.70mm
Mouse Weight: 75g+-5g

2 Mechanical characteristics

Mouse button operation power: 120+-20gf
Wheel rotation power: 20+-10gf
Wheel button (middle button) operating power: 170+-25gf

3 Electrical characteristics:

System format: USB(L:1.3M)
Supply voltage (working voltage): 4.25-5.25V DC
Mouse Optical (SENSOR) IC:4534/8733

4 Mobile performance

Resolution DPI: 1000DPI

5 Environmental definition

5.1 Temperature

Operating temperature range: 0-40C Operating humidity range: <85%
Transportation temperature range: -15C-60C Transportation humidity range: <85%

5.2 Environmental experiment

5.2.1 High temperature experiment

Temperature: 60+-2°C Time: 96 hours
Humidity: 50+-5%R.H.

5.2.2 Low temperature experiment

Temperature -15+-2°C Time: 96 hours



RELIABILITY

WHY M-30?



6 Reliability parameters

6.1 Mouse life test

Load: 100gf vertical pressure

Speed: 200+-40mm/sec.

Itinerary: Minimum 300km

6.2 Switch life test

Test frequency: 3 cycles/sec

Operating force (left and right keys): 90gf Max

Life times: 1000,000 cycles

6.3 Roller life test

Rotation speed: 1cycle/sec.

Operating power: 50+-30gf-cm

Number of operations: 100,000 cycles

6.4 High temperature test

Temperature: 60+-2°C

Test time: 96 hours

6.5 Low temperature test

Temperature: -15+-2°C

Test time: 96 hours

6.6 Moisture Test

Temperature: 40+-2°C

Humidity: 90-95% R.H.

Test time: 96 hours

6.7 Thermal cycling test

Temperature: -15+-2°C for 1 hour and then 60+-2°C for 1 hour

Number of runs: 5 cycles

Notes (6.4-6.7)

After passing this experiment,
the mouse sample should be allowed to stand at room temperature for one hour.

6.8 Naked fall test:

Naked falls: 6 times

Height of bare fall: 60+-5cm

Direction: 5 sides once each

Bare surface: Plastic floor tile



Reliability test judgment:

Because all tests are destructive tests, each test
requires independent sampling.

The sample after each test can work normally and
it is judged to pass the test.

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