

## TEST REPORT

Report No. : HC30144/2004

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Date : March 31, 2004

MANSUI MULTI-TECH INC., SHANGHAI  
 NO. 2980, CHUNSHEN ROAD, MINHANG DISTRICT,  
 SHANGHAI, CHINA

The following merchandise was submitted and identified by the vendor as:

Product Description: Vibration Protected Hard Disk  
Style/ Item No.: MS-FG-001/ No.1  
Quantity: Total 1 set

We have tested the submitted sample(s) as requested and the following results were obtained:

Test Required: (According to client's test specification, please see following sheets in detail.)

1. Shock Test

Test Results: - PLEASE SEE ATTACHED SHEETS -

Signed for and on behalf of  
 SGS TAIWAN Ltd.

*Terence Hsieh*

Terence Hsieh  
 Asst. Supervisor

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## 1. Shock test:

### Test Equipment:

Name	Brand	Model	Serial No.
Vibration Test System	UNHOLTZ-DICKIE	SAI60-H560BAC/2/ST	474
Controller	Dactron	LASER	7110357
Control Accelerometer	PCB	353B04	89582

### Lab Environmental Conditions:

Ambient temperature: 25±3°C  
 Relative humidity: 55±20%RH

### Test Method/ Specification:

Test Method: Reference to EN 61373:1999, Category 1 Body mounted, Class B (Clause 10 shock testing conditions)

Sample condition: Operating

Wave form: Half sine

Acceleration: (1) 30 m/s<sup>2</sup> (for Transverse and Vertical directions)  
(2) 50 m/s<sup>2</sup> (for Longitudinal direction)

Pulse duration: 30 ms

Shock direction: 5 faces (-X, ±Y, ±Z axes. See photo 4~ 8)

No. of shock: 3 shocks/ face (total 15 shocks)

- Operating condition: Connect the specimen with Monitor, Mouse and Keyboard via specified I/O ports separately. And connect with PC via LAN port to setup a local network connection. Turn on the power of both the specimen and the PC under network connecting status. Access the specimen through the local network connection by operations on the PC to play a video file stored in the specimen.
- Examine the appearance of specimen by visual check and perform functional check after this test.
- Functional check: Follow the operating instructions as specified in operating condition section. Examine the access function and video file playing function through the local network connection by the PC for evaluating whether the operating functionality of the Hard Disk of the specimen is normal or not.

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**Specimen:**

Style/Item No.: MS-FG-001/ No.1

Quantity: total 1 set

**Test Result:**

Check Item Style/ Item No.	Appearance Check (Visual Check)	Functional check
MS-FG-001/ No.1	No visible damage	Normal

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