



TEST REPORT

Report No. : AE003149-1 Date : 2004 March 23

Applicant : AVC Technology Limited
Units 11-15, 11th Floor, Block A, Focal Ind. Ctr.,
21 Man Lok Street, Hunghom,
Kowloon, Hong Kong.

Sample Description : One(1) submitted sample stated to be :
Model Name : Mass Storage Device (1.5 GB)
Model No. : UHP 900 / UHP 900T
Rating : USB 5 V
Testing Voltage : AC 120 V and USB 5 V
No. of sample(s) : Two(2) pieces ***

Date Received : 2004 February 17.
2004 March 22.

Test Period : 2004 February 17.
2004 March 22 – 2004 March 23.

Test Requested : FCC Part 15 Certification

Test Method : FCC Rules and Regulations Part 15 – July 2003
ANSI C63.4 – 1992

Test Result : See attached sheet(s) from page 2 to 12.

Conclusion : The submitted sample was found to comply with requirement of FCC
Part 15 Subpart B.

For and on behalf of
CMA Testing and Certification Laboratories

Authorized Signature : _____

Danny Chui
EMC Engineer - EL. Division

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FCC ID : Q93-U004

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1 General Information

1.1 General Description

The equipment under test (EUT) is a standalone data storage product, it built-in 1.5 GB hddisk. The EUT model UHP 900 and UHP 900T contains two design with the difference in X1 and USB interfacing IC which mentioned in the operation description. The EUT has following features :

1. USB interface for PC or Mac uploading and downloading data (through an USB connector).
2. Storage electronic format data for PC windows user and Mac OSX user.

A brief circuit description is saved with filename : OpDes.pdf

1.2 Related Submittal Grants

This is a single application for certification of a computer peripheral product.



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1.3 Location of the test site

Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 1992. An Open Area Testing Site is set up for investigation and located at :

Top of the Roof, Yan Hing Centre,
9 – 13 Wong Chuk Yeung Street,
Fo Tan, Shatin,
New Territories,
Hong Kong.

Conducted emissions measurements are investigated and also taken pursuant to the procedures of ANSI C63.4 – 1992. A double shielded room is located at :

Roof Floor, Yan Hing Centre,
9 – 13 Wong Chuk Yeung Street,
Fo Tan, Shatin,
New Territories,
Hong Kong.



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1.4 List of measuring equipment

Equipment	Manufacturer	Model No.	Serial No.	Calibration Certification No.
EMI Test Receiver	R&S	ESCS30	100001	S21141
Broadband Antenna	Schaffner	CBL6113B	2718	AC1753
Signal Generator	IFR	2023B	202302/938	Nil
LISN	R&S	ESH3-Z5	100038	S21142
LISN	R&S	ESH3-Z5	100010	20-70405
Pulse Limiter	R&S	ESH3-Z2	100001	20-73194
Biconical Antenna	R&S	HK116	837414/004	4000.7752.02



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1.5 List of support equipment

1. Intel CPU PIII 800EB / 256 cache / 133MHz
Model: L103A455-0041 SL4MB
2. Intel Mother Board
Model: Intel Type: D815EEA
3. IBM Hard-disk
Model: DTLA-30720, 20.5GB
4. Proview LCD Monitor
Model: 568
S/N: FYUJ240040133
5. IBM Mouse
Model: 12J3618
S/N: 23-005077
6. Acer Keyboard
Model: 6511-VA
7. Hewlett Packard LaserJet 2100TN
Model: C4172A
S/N: SGG5038577
8. PenPower Handwriting System
Model: PP403N
S/N: PT9122239
9. USB cable



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2 Description of the radiated emission test

2.1 Test Procedure

Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 1992.

The equipment under test (EUT) was placed on a non-conductive turntable with dimensions of 1.5m x 1m and 0.8m high above the ground. 3m from the EUT, a broadband antenna mounting on the mast received the signal strength. The turntable was rotated to maximize the emission level. The antenna was then moving along the mast from 1m up to 4m until no more higher value was found. Both horizontal and vertical polarization of the antenna were placed and investigated.

2.2 Test Result

All modes had been test. The measurement data based on measurements employing the CISPR quasi-peak detector were indicated in next page.

All other measurement were 20 dB below the 15.109 limits. Thus, those highest emissions were presented in next page (section 2.3).

It was found that the EUT meet the FCC requirement.



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2.3 Radiated Emission Measurement Data

**Radiated emission
pursuant to
the requirement of FCC Part 15 subpart B**

Mode : PC

Model : UHP 900

Frequency (MHz)	Polarity (H/V)	Reading at 3m (dBμV/m)	Antenna and Cable factor (dB)	Field Strength (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
119.999	H	26.9	12.0	38.9	43.5	-4.6
155.999	H	17.9	11.5	29.4	43.5	-14.1
180.001	H	19.3	10.5	29.8	43.5	-13.7
203.998	H	20.0	10.7	30.7	43.5	-12.8
227.998	H	29.4	10.7	40.1	46.0	-5.9
239.998	H	29.7	10.7	40.4	46.0	-5.6
252.998	H	27.0	13.9	40.9	46.0	-5.1
299.997	H	23.3	13.9	37.2	46.0	-8.8
323.997	H	25.3	15.3	40.6	46.0	-5.4
419.996	H	20.2	18.6	38.8	46.0	-7.2

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2.3 Radiated Emission Measurement Data

**Radiated emission
pursuant to
the requirement of FCC Part 15 subpart B**

Mode : PC

Model : UHP 900T

Frequency (MHz)	Polarity (H/V)	Reading at 3m (dBμV/m)	Antenna and Cable factor (dB)	Field Strength (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
120.018	H	8.6	13.2	21.8	43.5	-21.7
155.998	H	23.4	11.5	34.9	43.5	-8.6
203.998	H	21.4	10.7	32.1	43.5	-11.4
227.997	H	25.6	10.7	36.3	46.0	-9.7
239.997	H	29.0	10.7	39.7	46.0	-6.3
251.997	H	23.5	13.9	37.4	46.0	-8.6
347.996	H	20.9	15.3	36.2	46.0	-9.8
407.995	H	22.1	18.6	40.7	46.0	-5.3
443.995	H	21.8	18.6	40.4	46.0	-5.6
479.995	H	20.3	18.6	38.9	46.0	-7.1

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3 Description of the Line-conducted Test

3.1 Test Procedure

Conducted emissions measurements are investigated and also taken pursuant to the procedures of ANSI C63.4 – 1992. The EUT was setup as described in the procedures, and both lines were measured.

3.2 Test Result

The PC connected mode had been tested. The EUT connecting with an USB cable produced the maximum emission. The measurement data was indicated in next page.

The result showed that the EUT met the FCC requirement.

3.3 Graph and Table of Conducted Emission Measurement Data

For electronic filing, the document are saved with filename TestRpt2.pdf



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4 Photograph

4.1 Photographs of the Test Setup for Radiated Emission and Conduction Emission

For electronic filing, the photos are saved with filename TSup1.jpg to TSup5.jpg

4.2 Photographs of the External and Internal Configurations of the EUT

For electronic filing, the photos are saved with filename ExPho1 to ExPho2 and InPho1 to InPho6.

5 Supplementary document

The following document were submitted by applicant, and for electronic filing, the document are saved with the following filenames:

Document	Filename
ID Label/Location	LabelSmp1.jpg & LabelSmp2.jpg
Block Diagram	BlkDia1.pdf & BlkDia2.pdf
Schematic Diagram	Schem1.pdf & Schem2.pdf
Users Manual	UserMan.pdf
Operational Description	OpDes.pdf



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6 Appendices

A1.	Photos of the set-up of Radiated Emissions	1 page
A2.	Photos of the set-up of Conducted Emissions	2 pages
A3.	Photos of External Configurations	1 page
A4.	Photos of Internal Configurations	3 pages
A5.	ID Label/Location	1 page
A6.	Conducted Emission Measurement Data	4 pages
A7.	Block Diagram	2 pages
A8.	Schematics Diagram	2 pages
A9.	User Manual	10 pages
A10.	Operation Description	1 page

***** End of Report *****