ASUSTeK	COMPUTER				
INC.					

HD6570 Standard Operation Procedure Revision: 1.05

Doc. No:

Date:Oct. 29, 2013

Page: 10 Grade:

Rev.	Modified Chapters	Modification Description	Issued Dept.	Issued by	Revised Date
1.00		First Release	GRMA	Ariel_wang	Jun.25,2012
1.01		Add new P/N(YV00E4-A01)	GRMA	Ariel_wang	Nov.7,2012
1.02		Add new PCBA(YV0310-Q04)	GRMA	Ariel_wang	Apr.2,2013
1.03		Add new PCBA(YV00E4-Q02)	GRMA	Ariel_wang	Apr.9,2013
1.04		Add new P/N(YV0312-A03)	GRMA	Jory_yuan	July.10.2013
1.05		Add new PCBA(YV00E4-A12)	GRMA	jory_yuan	Oct.29.2013

Authorize by	Review by	Originator By	Ariel

Form No: T2-009-01 Rev.01

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1.Objectives

Create test procedure.

2.Scope

Model: HD6570

PN: YV0310(A01&Q04)YV00E4(A01&Q02&A12)YV0312(A03)

3.Test Item

3.1 Diagnostic test in 64-bit Linux

3.2 3DMark06(contain HDMI test)

3.3 Temperature test

3.4 Fan test

4.Relevant Document

None.

5.Definition: 1. If the model name contains P, please test HDCP function.

Ex: HD***/HTDP/512M/A

- 2. If you test HDMI already, it's unnecessary to test HDCP. The HDMI contains HDCP function.
- 3. System Memory: 1GB for a single GPU test station; please add an additional 512MB of system memory for each additional GPU used for the test configuration
- 4. HD6570 Test Program in 64-bit Linux system.

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6. Operation Procedures:

6.1 Attention

- 6.1.1 To avoid damaging devices or M/B, please turn off A/C power then unplug VGA card.
- 6.1.2 While unplugging the card, do it in upright direction to avoid damaging slot & golden finger.
- 6.1.3 If any problem happens, please inform test supervisor. Base on ATX power specification, +5V standby voltage is existed while AC power is connecting. For safety reason, please turn off main power during break time or idling test.
- 6.1.4 Some test items should be tested under Windows environment. (Please install windows 7 test environment by yourself).

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6.2 Fixture connect

6.2.1 Install Intel P7 CPU & CPU Fan.

6.2.2 Install DDR2 1GB Memory to DIMM1~4. (a minimum memory of 2GB for Linux test)

6.2.3 Plug USB Mouse and PS/2 Keyboard into MB.

6.2.4 Plug VGA Card HD6570 into PCIEX16_1.

6.2.5 If this card has 6 PIN or 8 PIN of Power supply, please connect power con of VGA card & Power supply via bundled power cable.

(6 PIN of Power supply to 6 PIN of VGA card)

(8 PIN of Power supply to 8 PIN of VGA card)

6.2.6 Connect SATA HDD & SATA con via SATA cable



- 6.2.7 Plug 4PIN 12V power(a minimum power of 1200W) cable into CON12V.
- 6.2.8 Plug ATX Power on Power(a minimum power of 1200W) Connector.



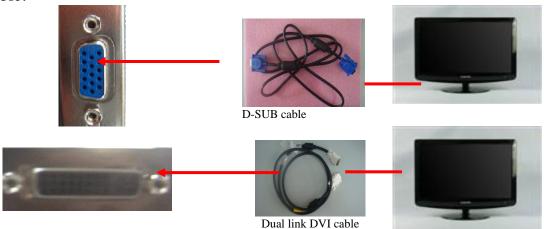
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6.3 Certain test.

6.3.1 Diagnostic test in 64-bit LINUX system

6.3.1.1 Please connect LCD monitor & card's DVI CON/D-SUB CON via a DVI /D-SUB cable.



- 6.3.1.2 Press Power Switch then turn on power button.
- 6.3.1.3 Press "Del" to enter CMOS setup menu while boot screen is displaying.

Exit Options

Exit Save Changes
Exit & Discard Changes
Discard Changes
Load Setup Defaults

Exit Select Screen

Select Screen
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6.3.1.4 Run test program in 64-bit linux system.

Path:hd6570\yv0310a0.sh or yv0310q0.sh

Path:hd65701\yv00e4a0.sh or yv00e4q0.sh or yv0312a0.sh or yv00e4a1.sh Please enter into the file of hd6570 enter the following command: cd ./hd6570

Then, please run ./yv0310a0.sh ./yv00e4a0.sh ./yv0310q0.sh ./yv00e4q0.sh

6.3.1.5 Memory test

If you want to test memory, please run ./tserver -test=memfa

Path:hd6570\

Path:hd65701\

6.3.1.6 BIOS Version

If you want to see the version of bios, please run ./atiflash –ai 0 or ./BIOSinfo_08 Path:hd6570 $\$

Path:hd65701\

6.3.1.7 BIOS flash

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Please use the following command to flash bios and notice the size of character.

Path:hd6570\ Path:hd65701\

Command:./atiflash -p -f 0 xxx.rom

Notice:

If you can not flash bios because of the bios locked, please use ./atiflash –unlockrom 0 to unlock bios. And then, please use ./atiflash –lockrom 0 to lock bios after updating latest bios.

6.3.1.8 FAN Test

If you want to test FAN, please run ./aft64102

Path: Path:hd6570\fan

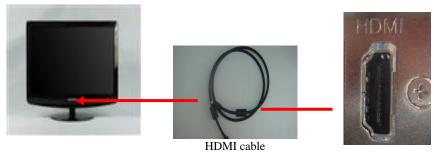
Notice:

./aft64102 apply the following Part Number

YV0310(A01&Q04)

6.3.1.9 After finishing 64-bit Linux testing, please enter Windows environment to test **6.3.2 3DMark test(contain HDMI test)**

- 6.3.2.1 Please install 3DMark program by yourself.
 - 6.3.2.2 Please connect VGA card to LCD via HDMI cable.

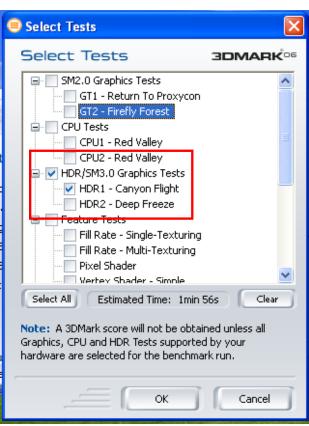


HDMI Port

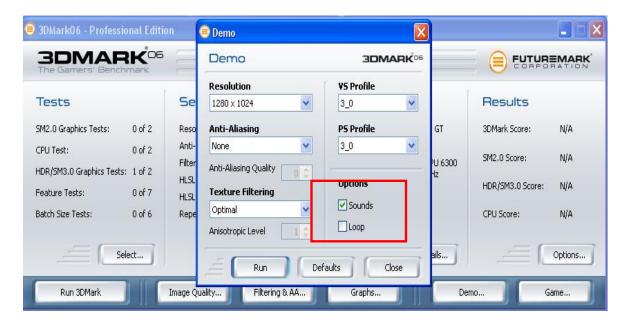
- 6.3.2.3 Please install VGA card driver in Windows(You must use individual driver of this card).
- 6.3.2.4 Please run 3DMark06 base on this card (please test 1 cycle).
- 6.3.2.5 Press "Select" to enter Select test menu. You can choose "HDR1" for default setting.

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6.3.2.6 Press "Demo" to enter Demo menu. You can choose "Sounds" for default setting.



- 6.3.2.7 Please pay attention to check if there is flickering, discolor, crash and so on. If there's no problem, it can be judged OK!
- 6.3.2.8 Please listen to voice carefully to check whether it outputs sounds. If not, HDMI test fail.

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6. 3.2.9 If test OK, please test temperature test.

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6.4 Temperature test

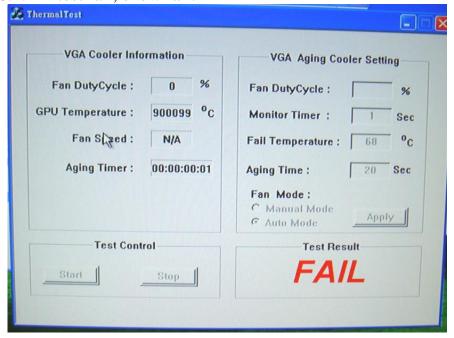
- 6.4.1 Please copy Thermaltool(1.0.05) to Windows by yourself.
- 6.4.2 Please run ThermalTest.exe.



6.4.3 If test ok, show pass.



6.4.4 If test fail, show fail.



6.4.5 If test OK, please NTF test.

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7.Appendix

NO#	Equipment Description	ASUS Part#	Supplier	Quantity	Remarks
1	Dell 30 inches (3008WFP) (Buying a local LCD by yourself)			1	Partie de annue
2	USB MOUSE			1	
3	PS/2 KEYBOARD			1	
4	ATX POWER SUPPLY(a minimum power of 500W)			1	
5	Intel CPU Intel(R) Core(TM)2 CPU		local	1	61100
6	Heat sink + FAN	22-240000160		1	
7	DDR3 1333 2G	20-TT2605618	local	4	
8	TEST HDD			1	
9	SATA HDD Cable	14-000107070	ASUS	1	
10	PCIEX16 VGA CARD			1	
11	Dual link DVI cable (Buying a local DVI cable by yourself)			1	O
12	HDMI extend cable (Buying a local HDMI cable by yourself)			1	O
13	P7H55-M/USB3 MB Display port cable (Buying a local Display port	80- MIBBKA-*		1	
	cable by yourself)				1333-5