ASUSTeK	COMPUTER
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EAH5750 Standard Operation Procedure Revision:1.10

Doc. No:

Date: Mar. 21, 2011

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1					
Rev.	Modified Chapters	Modification Description	Issued Dept.	Issued by	Revised Date
1.00		First Release	GTC	Ariel_wang	Nov.9,2009
1.01		Add new P/N C1CNU0(A01)	GTC	Ariel_wang	Dec.4,2009
1.02		Add new P/N C1CNU5(A01)	GTC	Ariel_wang	Dec.10,2009
1.03		Add new PCBA C1CNU5(B01)	GTC	Ariel_wang	Apr.6,2010
1.04		Add new PCBA C1CNU5(B11)	GTC	Ariel_wang	Apr.20,2010
1.05		Add new P/N C1CNPK(A01)	GTC	Ariel_wang	Apr.22,2010
1.06		Add new PCBA C1CNU0(A15)	GTC	Chongling	May.5,2010
1.07		Add new P/N C1CNPP(A01)	GRMA	Ariel_wang	Feb.22,2011
1.08		Add new P/N C1CNUF(A01)	GRMA	Ariel_wang	Mar.15,2011
1.09		Add new PCBA C1CNUF(B01)	GRMA	Ariel_wang	Mar.21,2011
1.10		Add new PCBA C1CNPP(B01)	GRMA	Ariel_wang	Mar.21,2011
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Authorize	Review	Originator	Ariel
by	by	By	

Form No: T2-009-01 Rev.01

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1.Objectives

Create test procedure.

2.Scope

Model: EAH5750

PN: C1CNP0(A01) C1CNU0(A01&A15) C1CNU5(A01&B01&B11)

C1CNPK(A01) C1CNPP(A01&B01) C1CNUF(A01&B01)

3.Test Item

- 3.1 Diagnostic test in 32-bit Linux system
- 3.2 3DMark06(contain HDMI test)
- 3.3 Temperature test

4.Relevant Document

None.

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

Ex: EAH***/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

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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 test environment by yourself).

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6.2 Fixture connect

- 6.2.1 Install Intel P5 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 EAH5750 into PCIEX16 1.
- 6.2.5 Connect power con of VGA card & Power supply via bundled power cable.

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



C1CNP0

6.2.6 Connect SATA HDD & SATA con via SATA cable



- 6.2.7 Plug 4PIN 12V power(a minimum power of 600W) cable into CON12V.
- 6.2.8 Plug ATX Power on Power(a minimum power of 600W) Connector.



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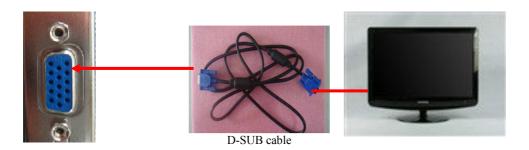
6.3 Certain test.

6.3.1 Diagnostic test in 32-bit Linux system

6.3.1.1 Please connect LCD monitor & card's DVI CON via a DVI cable.



Please connect LCD monitor & card's D-SUB CON via a 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 -> Load Setup Defaults.



6.3.1.4 Run test program in linux.

Path:eah5750\c1cnp0a0.sh

Path:eah57501\c1cnu0a0.sh c1cnu5a0.sh c1cnu5b0.sh c1cnu5b1.sh c1cnpka0.sh Path:eah57502\c1cnu0a1.sh

Path:eah57503\c1cnppa0.sh c1cnufa0.sh c1cnppb0.sh c1cnufb0.sh

Please enter into the file of eah5750, enter the following command:cd./eah5750 Please enter into the file of eah57501, enter the following command:cd./eah57501 Please enter into the file of eah57502, enter the following command:cd./eah57502 Please enter into the file of eah57503, enter the following command:cd./eah57503

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root@diagtc:~#cd./eah5750

Then, please run ./clcnp0a0.sh

Then,please run ./c1cnu0a0.sh c1cnu5a0.sh c1cnu5b0.sh c1cnu5b1.sh c1cnpka0.sh

Then, please run ./c1cnu0a1.sh

Then, please run ./clcnppa0.sh clcnufa0.sh clcnufb0.sh

6.3.1.5 Memory test

If you want to test memory, please run ./tserver-exec -test=memfa1.1

Path:eah5750\

Path:eah57501\

Path:eah57502\

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

Path:eah57503\

6.3.1.6 BIOS Version

If you want to see the version of bios, please run ./atiflash -ai 0.

Path:eah5750\

Path:eah57501\

Path:eah57502\

Path:eah57503\

6.3.1.7 BIOS flash

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

Path:eah5750\

Path:eah57501\

Path:eah57502\

Path:eah57503

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.

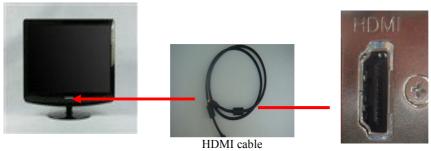
6.3.1.8 After finish Linux testing, please enter Windows environment to test 3DMark.

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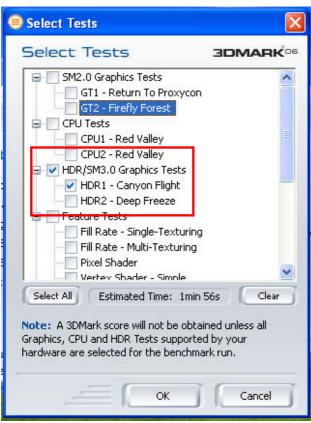
6.3.2 3DMark test(contain HDMI test)

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



HDMI CON

- 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.

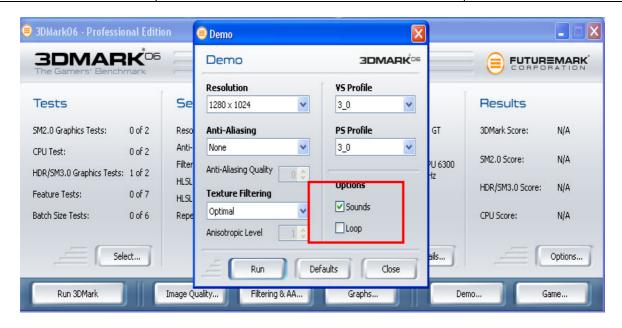


6.3.2.6 Press "Demo" to enter Demo menu. You can choose "Sounds" for default setting.

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- 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 Display port.(for C1CNP0-A01)
- 6. 3.2.10 Connect VGA card to LCD via Display cable test HDMI function.

(Please refer to step 6.3.2.4&6.3.2.5&6.3.2.6&6.3.2.7&6.3.2.8)



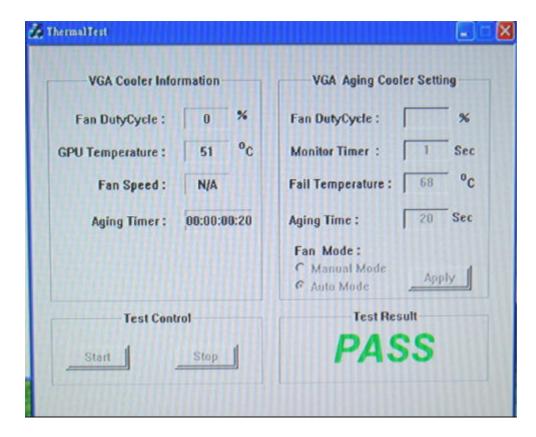
DISPLAY CON

6.4 Temperature test

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



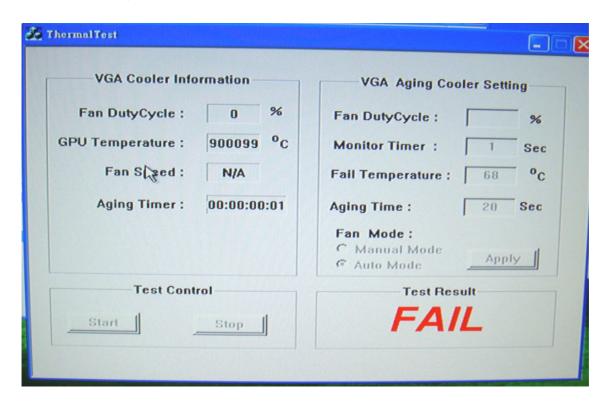
6.4.3 If test ok, show pass.



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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	Parameter in
2	USB MOUSE			1	Constant of the Constant of th
3	PS/2 KEYBOARD			1	
4	ATX POWER SUPPLY(a minimum power of 500W)			1	
5	INTEL Celeron E1200			1	E11200
6	Heat sink + FAN	22-240000160		1	
7	DDR2(667/800) 1G	04G0016169A9NE /22-T00642404		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	Display port cable (Buying a local HDMI cable by yourself)			1	49.00
14	P5E MB	80- MBB7X0-*		1	