ASUSTeK COMPUTER INC.	EAH3850X2 Management Procedure	Doc. No:	
		Date: JAN. 17, 2009 Revision:1.01	
		Page: 5	Grade:

Rev.	Modification	Modify description	Issue div.	Originator
1.00		First Release	T.C	Paul
1.01		Modify for new test structure	T.C	Janice

Authorize by		Review by		Originator By		Paul

1.Objectives

Create test procedure.

2.Scope

Model: EAH3850X2
PN: C1CKW0

3.Test Item

3.1 Diagnostic test in DOS
3.2 3DMark06 (contain HDMI 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.

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).

6.2 Fixture connect

6.2.1 Install Intel P5 CPU & CPU Fan.
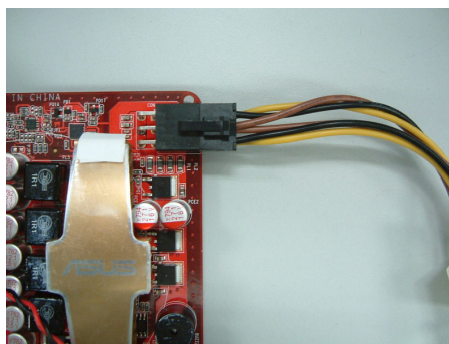6.2.2 Install DDR2 667/800M 1GB Memory to DIMM1~2.
6.2.3 Plug PS/2 Mouse and PS/2 Keyboard into MB.
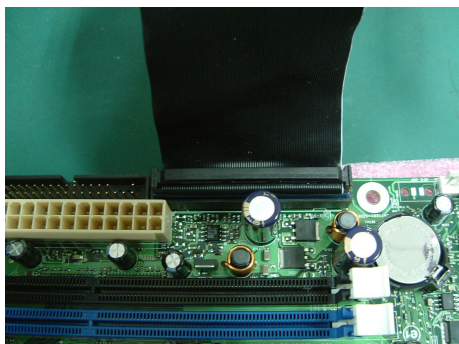6.2.4 Plug VGA Card EAH3850X2 into PCIEX16.
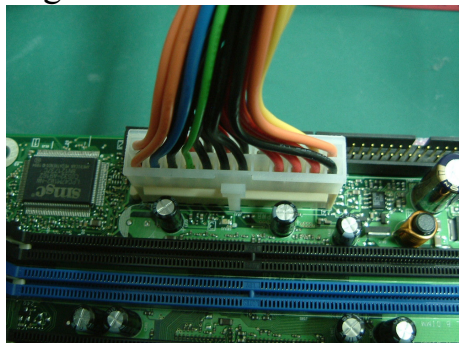6.2.5 Connect power con of VGA card & Power supply via bundled power cable(6 pin).

C1CKW0

6.2.6 Connect IDE HDD with IDE CON.

6.2.7 Plug 4PIN 12V power cable into CON12V.
6.2.8 Plug ATX Power on Power Connector.

6.3 Certain test.
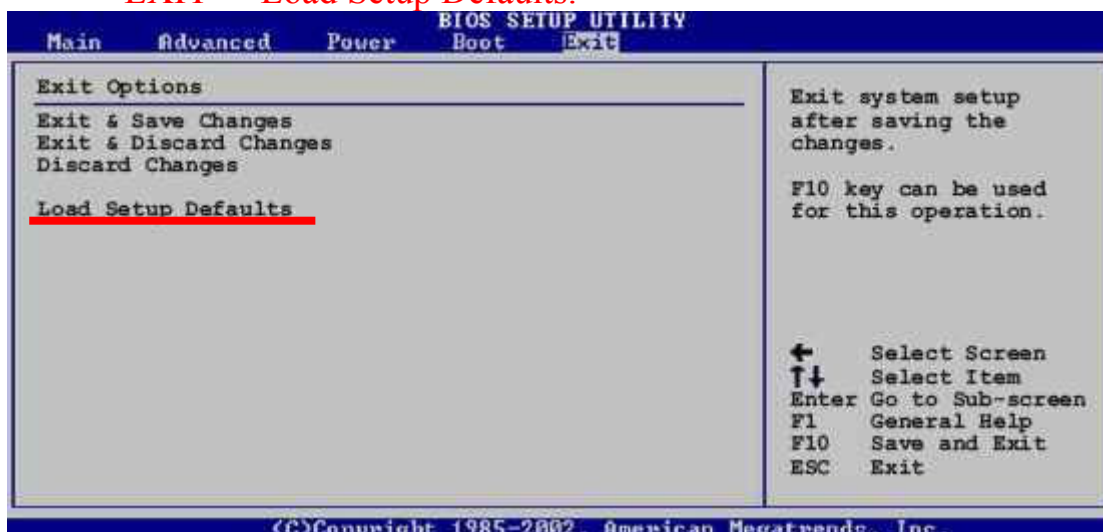
6.3.1 Diagnostic test in DOS

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

Dual link DVI 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 System will reboot, select DOS to run test program.
Path:VBAT\EAH3850X\BATCH\
Run the test program refer to the prompt.

6.3.1.5 Memory test
If you want to test memory,please run memfa.bat.
Path:VBAT\ EAH3850X\V670

6.3.1.6 BIOS flash
Please use the following command to flash bios and notice the size of character.
Path:VBAT\EAH3850X\BIOS
This model have two bioses. Firstly, please flash the master bios as following.
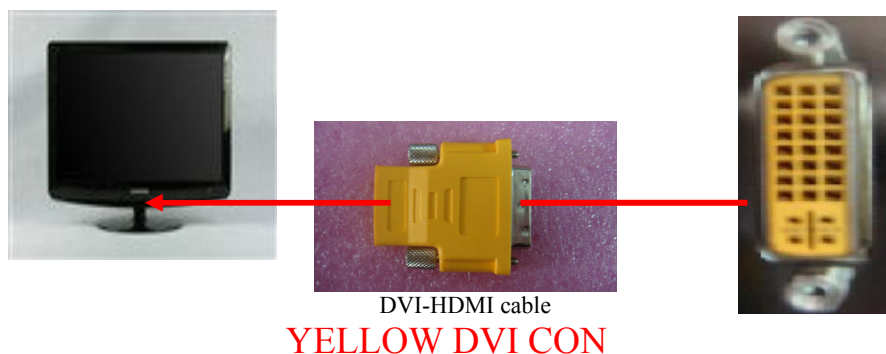Command:atiflash -p -f 0 xxx.rom
Then flash the slave bios as following.
Command:atiflash -p -f 1 sss.rom

6.3.1.7 After finish DOS testing, please enter Windows environment to test 3DMark.

6.3.2 3DMark test(contain HDMI test)

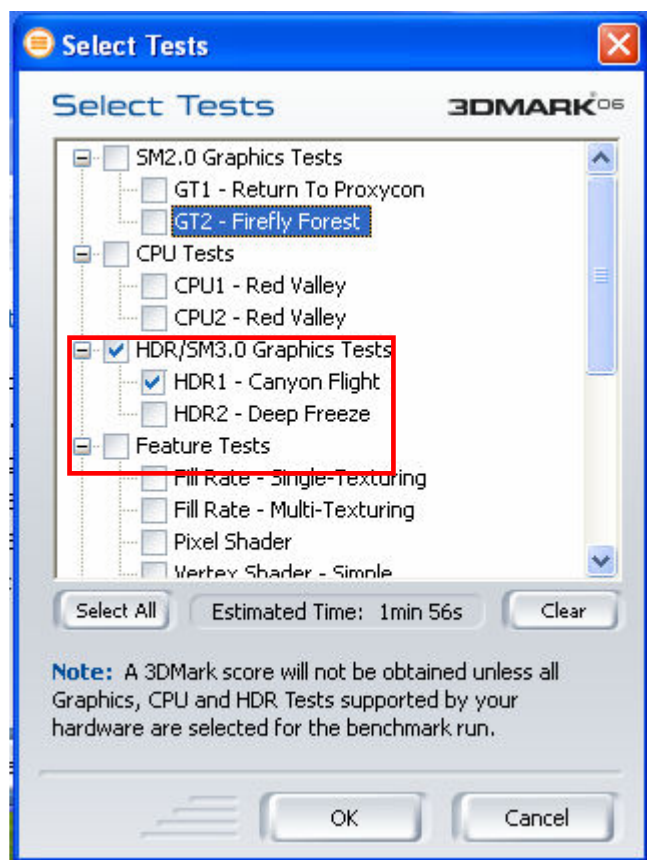6.3.2.1 Please install 3DMark program by yourself.
6.3.2.2 Please connect VGA card to LCD via HDMI cable.
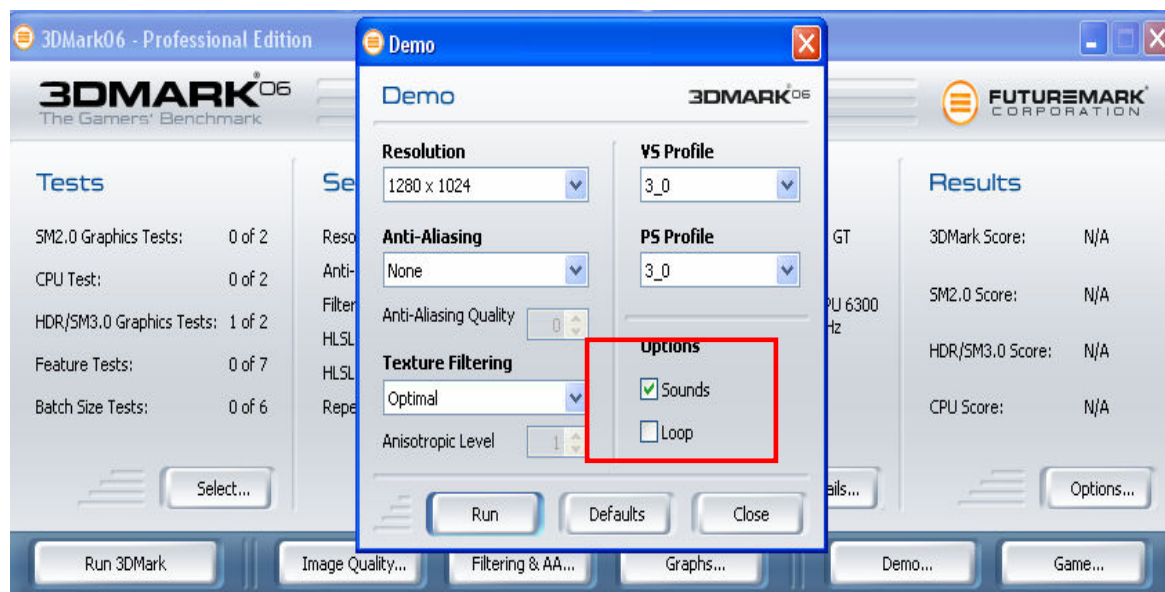

DVI-HDMI cable
YELLOW DVI CON

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.

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!
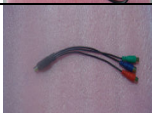
6.3.2.8 Please listen to voice carefully to check whether it outputs sounds. If not, HDMI test fail.

6.3.2.9 If test OK, please NTF test.

7 Appendix
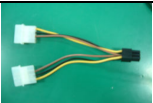
NO#	Equipment Description	ASUS Part#	Supplier	Quantity	Remarks
1	**SAMSUNG 2232MW**			**1**	
2	**PS/2 MOUSE**			**1**	
3	**PS/2 KEYBOARD**			**1**	
4	**ATX POWER SUPPLY(600W)**			**1**	
5	**INTEL P5 CPU**			**1**	
6	**Heat sink + FAN**	**22-240000160**		**1**	
7	**APACER 800MHz 512M or 800MHz 1G**			**512M 2 or 1G 1**	
8	**TEST HDD**			**1**	
9	**40Pins IDE Cable ATA66**		**ASUS**	**1**	
10	**PCIEX16 VGA CARD**			**1**	
11	**D-SUB extend cable (Buying a local D-SUB cable by yourself)**			**1**	
12	**S CABLE(ATI)**	**14G001801801**		**1**	
13	**Dual link DVI cable (Buying a local DVI cable by yourself)**			**1**	
14	**HDMI extend cable (Buying a local HDMI cable by yourself)**			**1**	
15	**TV extend cable (Buying a local TV cable by yourself)**			**1**	
16	**DVI-HDMI**	**04G460002400 /04G460002450**		**1**	

17	**Power Cable**	**14G000602510 /14G000602502**		**1**	
18	**LCD "Y" Cable**	**14-010230000**		**1**	
19	**P5B Deluxe MB**	**80- MBb4EA-***		**1**	