Rev.	Modification	Modify description	Issue div.	Originator
1.00		First Release	T.C	Ariel

1.Objectives

Create test procedure.

2.Scope

Model: EAH4890
PN: C1CMS0(A01)   C1CMX0(A01)

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.
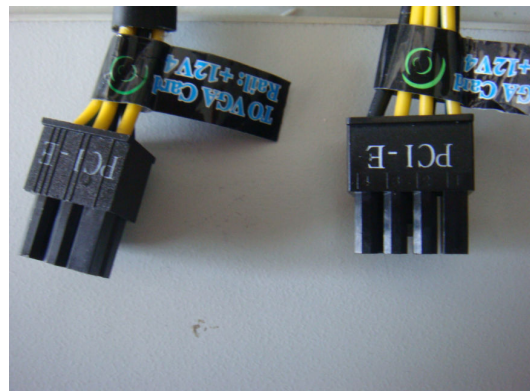
6.2.2 Install DDR2 667/800M 1GB Memory to DIMM1~4.

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

6.2.4 Plug VGA Card EAH4890 into PCIEX16_1.

6.2.5 Connect power con of VGA card & Power supply(1200W) 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)
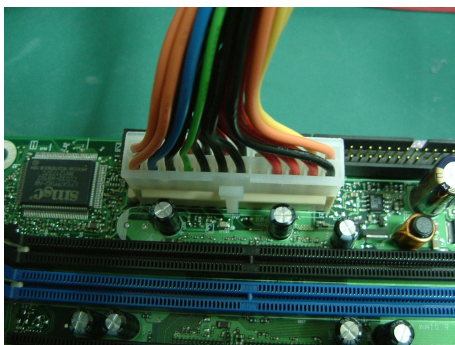

C1CMS0 & C1CMX0   6 PIN and 8 PIN of Power supply(1200W)

6.2.6 Connect SATA HDD & SATA con via SATA cable

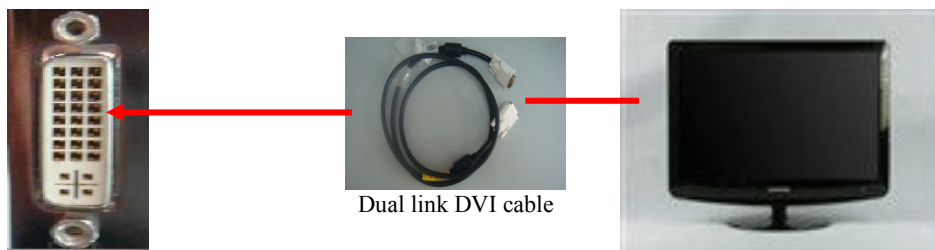

SATA

6.2.7 Plug 4PIN 12V power(1200W) cable into CON12V.

6.2.8 Plug ATX Power on Power(1200W) Connector.
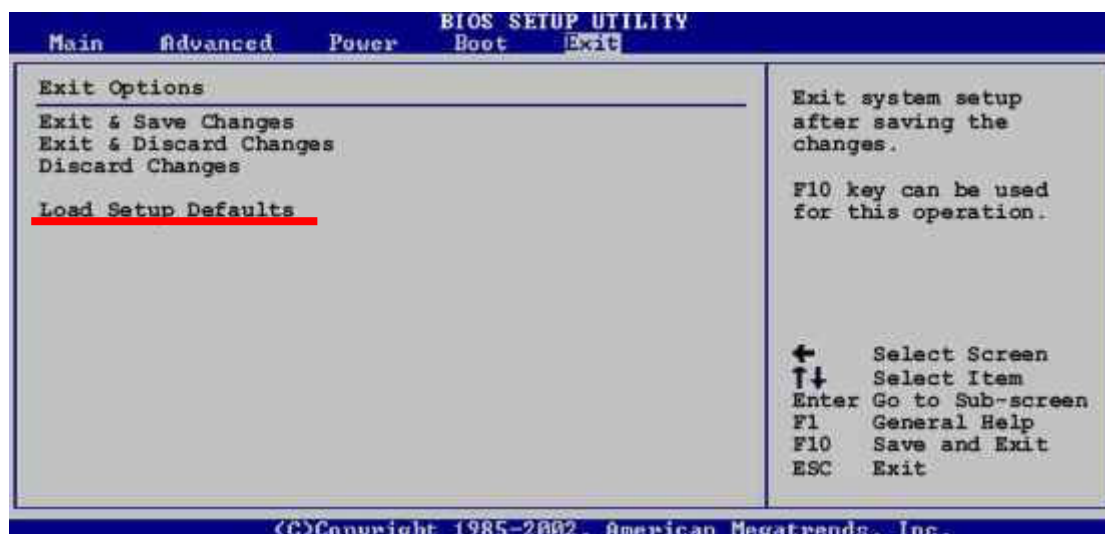
6.3 Certain test.

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\EAH4890\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\EAH4890\RV790\MEMFA

6.3.1.6 BIOS flash
Please use the following command to flash bios and notice the size of character.
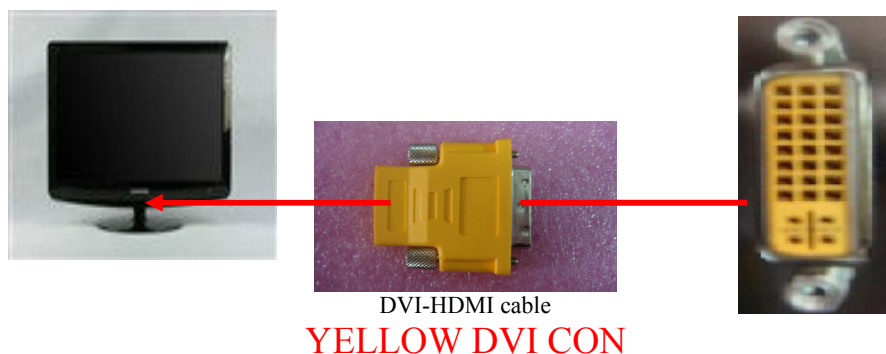Path:VBAT\EAH4890\BIOS
Command:atiflash -p -f 0 xxx.rom

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

6.3.2 3DMark test(contain HDMI test)

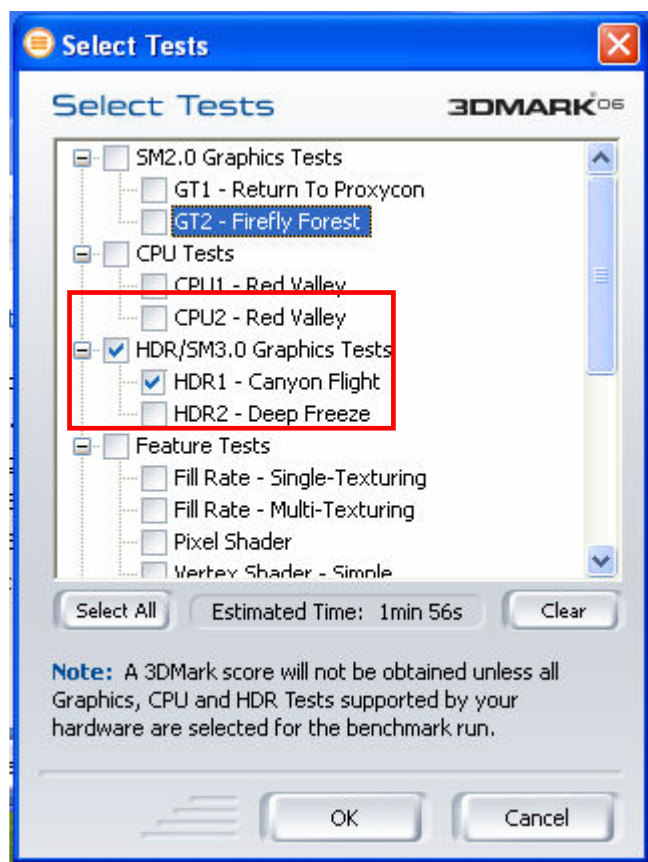6.3.2.1 Please install 3DMark program by yourself.

6.3.2.2 Please connect VGA card to LCD via HDMI cable.

DVI-HDMI cable

YELLOW DVI CON

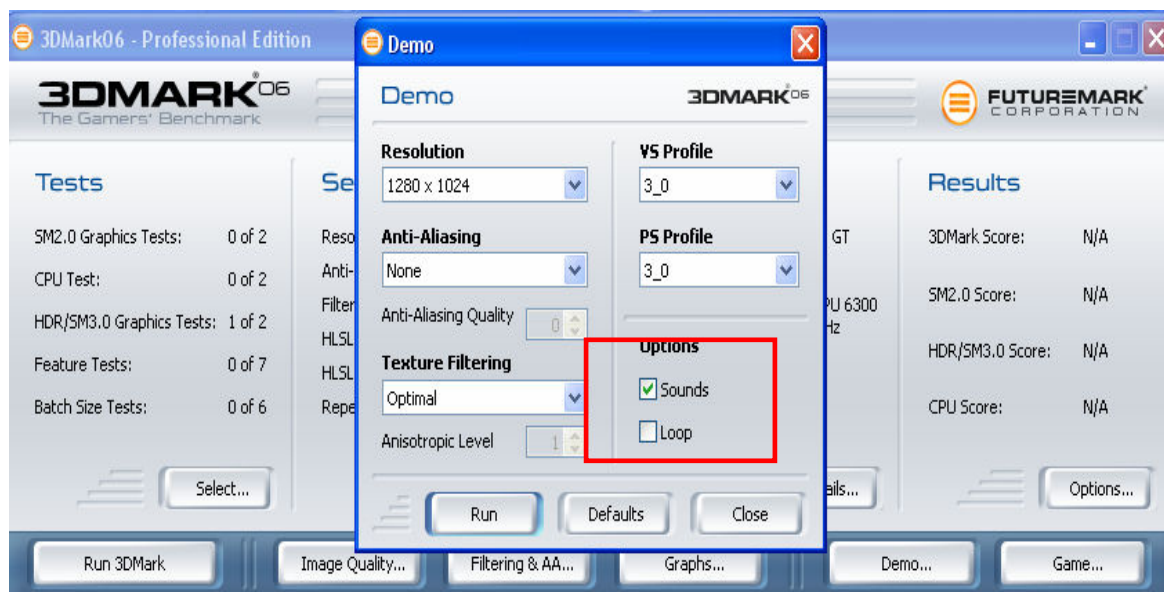6.3.2.3 Please install VGA card driver in Windows(You must use individual driver of this card).

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	USB MOUSE			1	
3	PS/2 KEYBOARD			1	
4	ATX POWER SUPPLY(1200W)			1	
5	INTEL Celeron E1200			1	
6	Heat sink + FAN	22-240000160		1	
7	DDR2(667/800)	04G0016169A9NE /22-T00642404		4	
8	TEST HDD			1	
9	SATA HDD Cable	14-000107070	ASUS	1	
10	PCIEX16 VGA CARD			1	
11	S CABLE(ATI)	14G001801801		1	
12	Dual link DVI cable (Buying a local DVI cable by yourself)			1	
13	HDMI extend cable (Buying a local HDMI cable by yourself)			1	
14	LCD "Y" Cable	14-010230000		1	
15	TV extend cable (Buying a local TV cable by yourself)			1	

16	DVI-HDMI	04G460002400 /04G460002450		1	
17	P5E MB	80- MBB7X0-*		1	