

ASUSTeK COMPUTER INC.	AH3650 Management Procedure	Doc. No:	
		Date: JAN. 21, 2009 Revision:1.02	
		Page: 5	Grade:

Rev.	Modification	Modify description	Issue div.	Originator
1.00		First Release	T.C	Janice
1.01		Add New PCB(C1CKN0-A12)	T.C	Janice
1.02		Modify for new test structure	T.C	Janice

Authorize by		Review by		Originator By	Janice
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ASUSTeK COMPUTER INC	AH3650 Management Procedure	Doc. No:
		Date: JAN. 21, 2009
		Rev. : 1.02 Page: 1

## 1.Objectives

Create test procedure.

## 2.Scope

Model: AH3650

PN: C1CKN0 C1CKN0-A12

## 3.Test Item

3.1 Diagnostic test in DOS

3.2 3DMark03(**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.

ASUSTeK COMPUTER INC	AH3650 Management Procedure	Doc. No:
		Date: JAN. 21, 2009
		Rev. : 1.02 Page: 2

## 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 DDR 256MB Memory to DIMM1~4.

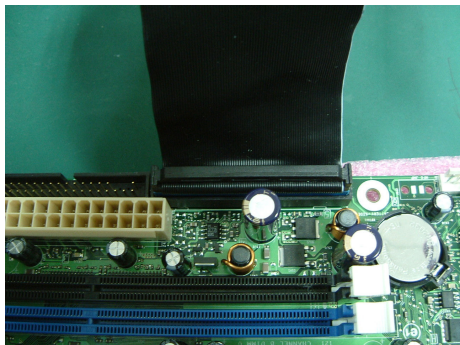
6.2.3 Plug PS/2 Mouse and Keyboard into PS/2 port.

6.2.4 Plug VGA Card AH3650 into AGP.

6.2.5 Connect power con of VGA card & Power supply via bundled power cable.

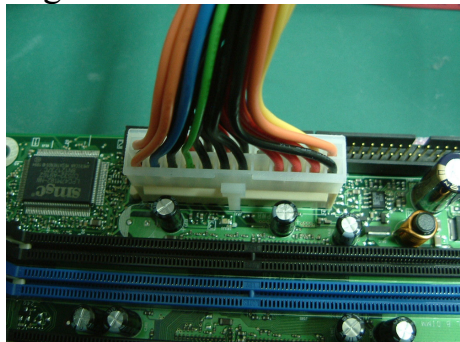


6.2.6 Connect IDE HDD with IDE CON.



6.2.7 Plug 4PIN 12V power cable into CON12V.

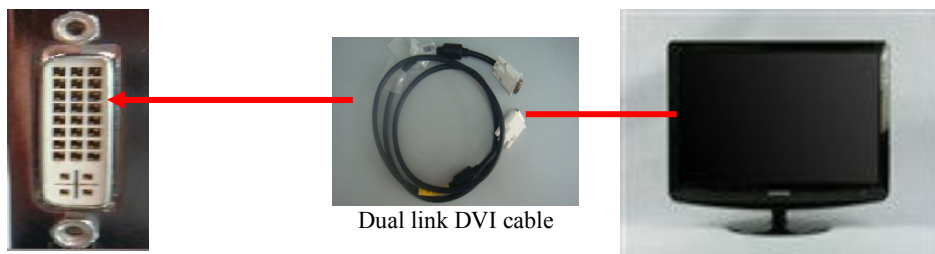
6.2.8 Plug ATX Power on Power Connector.



## 6.3 Certain test.

### 6.3.1 Diagnostic test in DOS

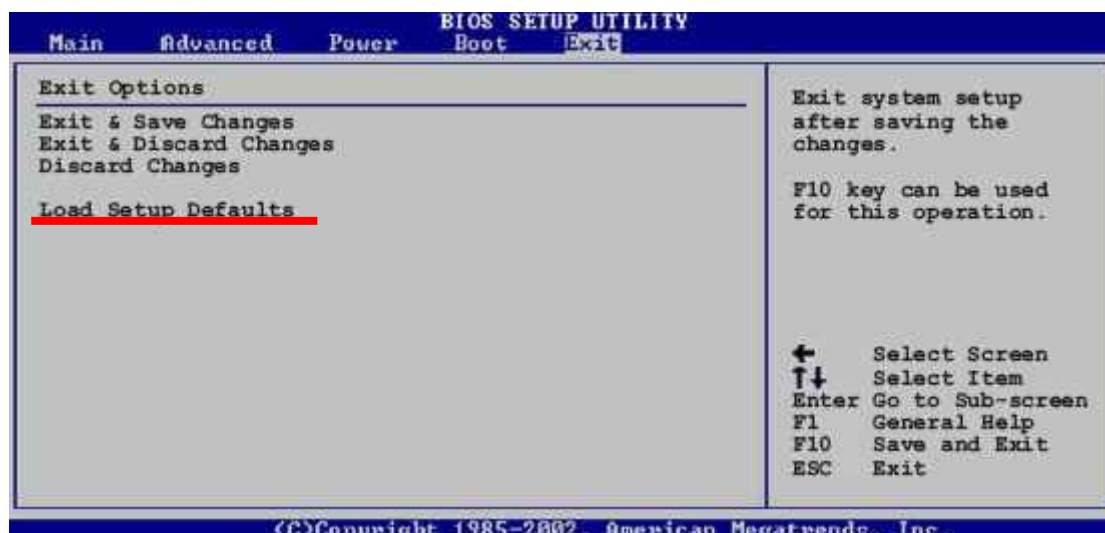
6.3.1.1 Please connect LCD monitor & card's DVI CON via a DVI cable(white DVI).



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\AH3650\BATC\

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\AH3650\DIAG

6.3.1.6 BIOS flash

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

Path: VBAT\AH3650\BIOS

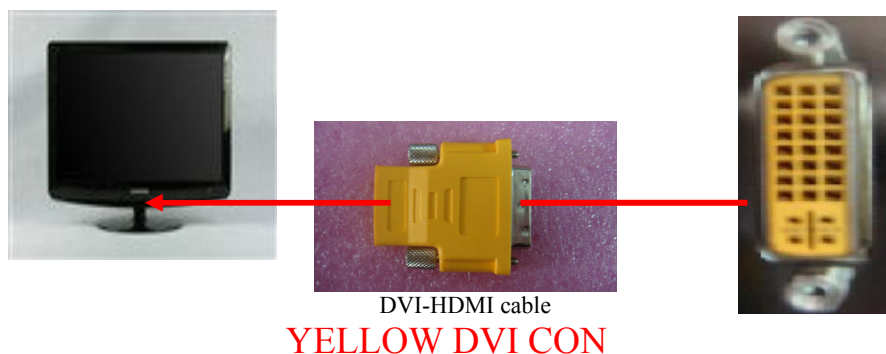
Command: **atiflash -p -f 0 xxx.rom**

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.

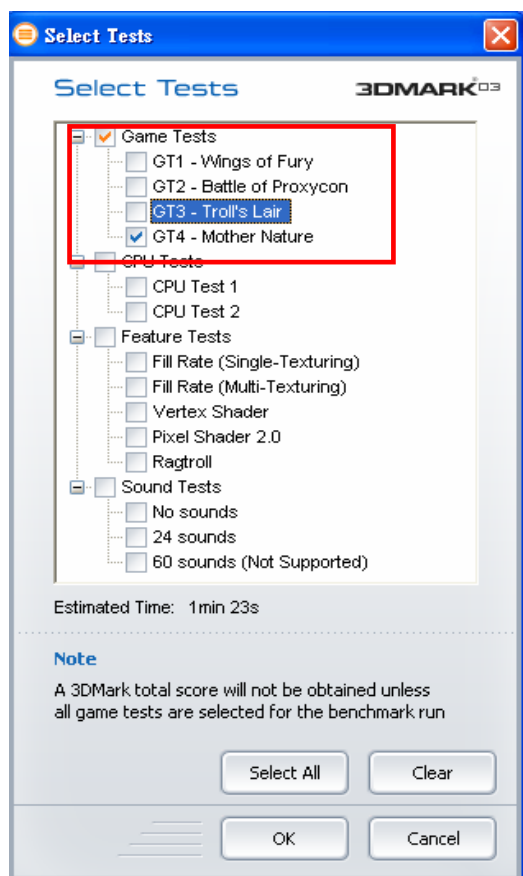
6.3.2.2 Please connect VGA card to LCD via HDMI cable.



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

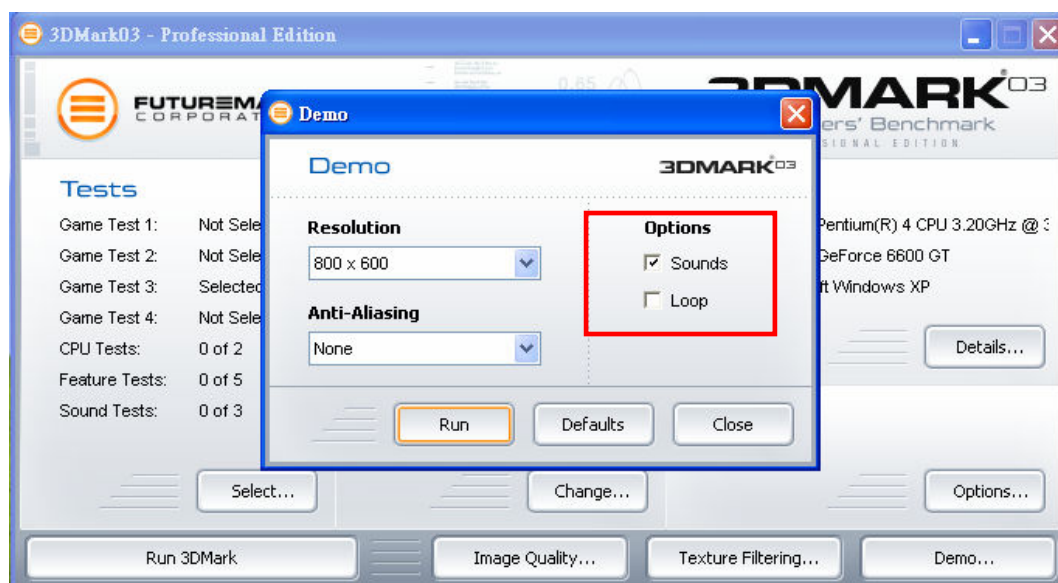
6.3.2.4 Please run 3DMark03 base on this card (please test 1 cycle).

6.3.2.5 Press “Select” to enter Select test menu. You can choose “GT4” for default setting.





6.3.2.6 Press “Demo” to enter Demo menu. You can choose “Sounds” for default setting(for HDMI function)..



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(for HDMI function).




6.3.2.9 If test OK, please NTF test.

## 7.Appendix

NO#	Equipment Description	ASUS Part#	Supplier	Quantity	Remarks
1	LCD MONITOR		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	MEMORY DDRII	APACER 800MHz 512M or 800MHz 1G		512M 2pcs or 1G 1pcs	
8	TEST HDD			1	
9	40Pins IDE Cable ATA66		ASUS	1	
10	PCIEX16 VGA CARD			1	
11	Dual link DVI cable (Buying a local DVI cable by yourself)			1	
12	HDMI extend cable (Buying a local HDMI cable by yourself)			1	
13	DVI-HDMI	04G460002400 /04G460002450		1	
14	TV extend cable (Buying a local TV cable by yourself)			1	
15	ATI S CABLE	14G001801801		1	
16	P5P800-VM/S	80- MBL1A5-*		1	
17	Power Cable	14G000602510 /14G000602502		1	



18	LCD “Y” Cable	14-010230000		1			
19	D-SUB extend cable (Buying a local D-SUB cable by yourself)			1		