

ASUSTeK COMPUTER INC.	GT730 Standard Operation Procedure	Doc. No:	
		Date:Mar.16.2018	
		Revision:1.96	
		Page: 10	<b>Grade:</b>

0Rev .	Modified Chapters	Modification Description	Issued Dept.	Issued by	Revised Date
1.65		Add new PCBA(YV06R2-D11)	GRTD	Xiaoming_Lu	Feb.18.2016
1.66		Add new PN(YV0951-A01)	GRTD	Xiaoming_Lu	Feb.18.2016
1.67		Add new PN(YV0950-A01)	GRTD	Xiaoming_Lu	Feb.18.2016
1.68		Add new PN(YV09A0-A02)	GRTD	Xiaoming_Lu	Apr.1.2016
1.69		Add new PCBA(YV06R0-B41)	GRTD	Xiaoming_Lu	Apr.1.2016
1.70		Add new PCBA(YV06R2-D32)	GRTD	Xiaoming_Lu	May.6.2016
1.71		Add new PCBA(YV06R2-A44)	GRTD	Xiaoming_Lu	May.6.2016
1.72		Add new PN(YV0950-Q01)	GRTD	Maico_Zhang	Jun.6.2016
1.73		Add new PN(YV0951-Q01)	GRTD	Maico_Zhang	Jun.29.2016
1.74		Add new PN(YV09Y0-A01)	GRTD	Maico_Zhang	Jul.22.2016
1.75		Add new PN(YV06R2-T12)	GRTD	Maico_Zhang	Jul.22.2016
1.76		Add new PCBA(YV09A1-A01)	GRTD	Maico_Zhang	Aug.29.2016
1.77		Add new PN(YV09A2-A01)	GRTD	Maico_Zhang	Aug.29.2016
1.78		Add new PN(YV09A0-Q03)	GRTD	Maico_Zhang	Sep.19.2016
1.79		Add new PCBA(YV09Y0-A11)	GRTD	Maico_Zhang	Sep.19.2016
1.80		Add new PCBA(YV06R2-D42)	GRTD	Maico_Zhang	Oct.18.2016
1.81		Add new PN(YV06R2-D52)	GRTD	Maico_Zhang	Nov.9.2016
1.82		Add new PCBA(YV0950-A11)	GRTD	Maico_Zhang	Nov.30.2016
1.83		Add new PCBA(YV09Y0-A21)	GRTD	Maico_Zhang	Jan.6.2017
1.86		Add new PCBA(YV09A2-A12)	GRTD	Maico_Zhang	Jan.16.2017
1.87		Add new PCBA(YV09A0-A13)	GRTD	Maico_Zhang	Feb.17.2017
1.88		Add new PCBA(YV09A1-A13)	GRTD	Maico_Zhang	Mar.3.2017
1.89		Add new PCBA(YV0950-Q11)	GRTD	Maico_Zhang	Mar.3.2017
1.90		Add new PN(YV06R2-T54)	GRTD	Maico_Zhang	Mar.3.2017
1.91		Add new PCBA(YV09Y0-A31)	GRTD	Maico_Zhang	Apr.20.2017
1.94		Add new PCBA(YV09A2-A23)	GRTD	Maico_Zhang	Aug.30.2017
1.95		Add new PCBA(YV0B80-A01)	GRTD	Maico_Zhang	Sep.21.2017
1.96		Add new PCBA(YV0950-A22)	GRTD	Maico_Zhang	Mar.16.2018

<b>Authorize by</b>		<b>Review by</b>		<b>Originator By</b>	Maico
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## 1.Objectives

Create test procedure.

## 2.Scope

Model: GT730

PN: YV06R2(D11) YV0951(A01) YV0950(A01) YV09A0(A02) YV06R0(B41)  
YV06R2(D32) YV06R2(A44) YV0950(Q01) YV0951(Q01) YV09Y0(A01)  
YV06R2(T12) YV09A1(A01) YV09A2(A01) YV09A0(Q03) YV09Y0(A11)  
YV06R2(D42) YV06R2(D52) YV0950(A11) YV09Y0(A21) YV09A2(A12)  
YV09A0(A13) YV0950(Q11) YV09A1(A13) YV06R2(T54) YV09Y0(A31)  
YV09A2(A23) YV0B80(A01) YV0950(A22)

## 3.Test Item

3.1 Diagnostic test in Linux system

## 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

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contains HDCP function.

3. Please use platform (P7H55-M/USB3) to test in LINUX or Windows.

## 6. Operation Procedures:

### 6.1 Attention

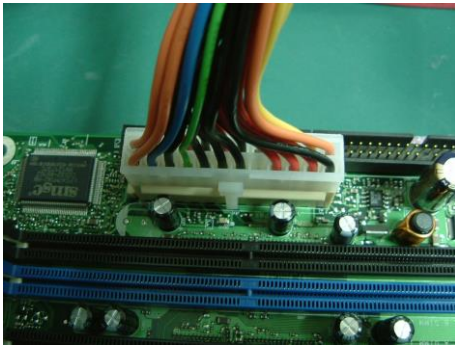
- 6.1.1 To avoid damaging devices or M/B, please turn off A/C power then unplug VGA card.
- 6.1.2 While unplugging the card, do it in upright direction to avoid damaging slot & golden finger.
- 6.1.3 If any problem happens, please inform test supervisor. Base on ATX power specification, +5V standby voltage 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).

### 6.2 Fixture connect

- 6.2.1 Install Intel P7 CPU & CPU Fan.
- 6.2.2 Install DDR3 Memory to DIMM1~4.
- 6.2.3 Plug USB Mouse and PS/2 Keyboard into MB.
- 6.2.4 Plug VGA Card GT730 into PCIEX16.
- 6.2.5 Connect power con of VGA card & Power supply via bundled power cable.
- 6.2.6 Connect SATA HDD with SATA CON.

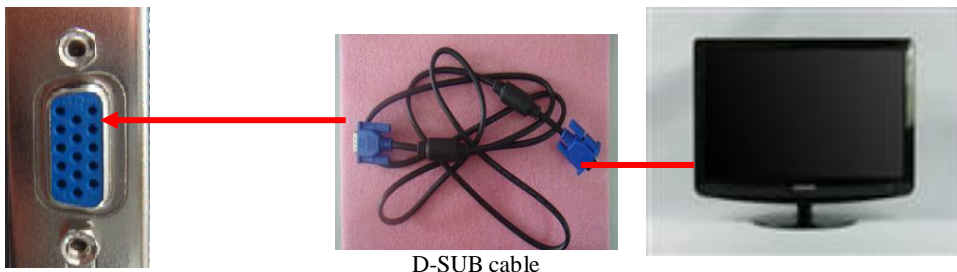


- 6.2.7 Plug 4PIN 12V (1200W) power cable into CON12V.
- 6.2.8 Plug ATX Power (1200W) on Power Connector.



## 6.3 Diagnostic test in linux system

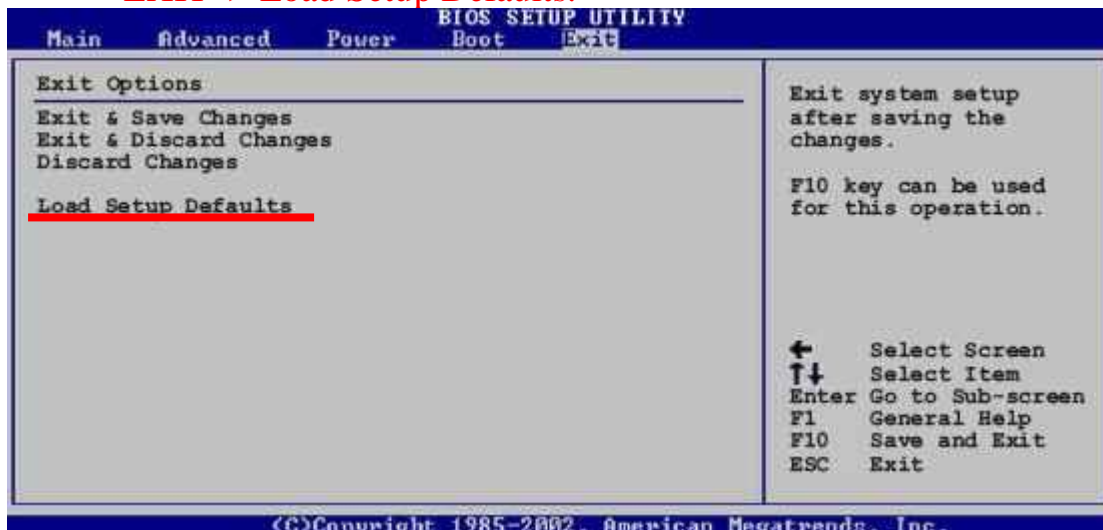
6.3.1 Please connect LCD monitor & card's D-SUB CON via a D-SUB cable.



6.3.2 Press Power Switch then turn on power button.

6.3.3 Press "Del" to enter CMOS setup menu while boot screen is displaying.

**EXIT -> Load Setup Defaults.**



6.3.4 System will reboot, select linux to run test program.

Path:GT730s\ yv06r2d1.sh

Path:GT730w\yv0950a0.sh or yv0951a0.sh or yv0950a1.sh or yv0b80a0.sh or yv0950a2.sh

Path:GT730x\ yv09a0a0.sh or yv09a1a0.sh or yv09a0a1.sh or yv09a1a1.sh

Path:GT730k\ yv06r0b4.sh

Path:GT730s\ yv06r2d3.sh or yv06r2d2.sh or yv06r2a4.sh or yv06r2d4.sh

Path:GT730y\ yv0950q0.sh or yv0950q1.sh

Path:GT730z\ yv0951q0.sh

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Path:GT730a1\ yv09y0a0.sh or yv09y0a1.sh or yv09y0a2.sh or yv09y0a3.sh  
Path:GT730a2\ yv06r2t1.sh  
Path:GT730a3\ yv09a2a0.sh or yv09a2a1.sh or yv09a2a2.sh  
Path:GT730a4\ yv09a0q0.sh  
Path:GT730a5\ yv06r2d5.sh  
Path:GT730a6\ yv06r2t5.sh

Run the test program refer to the prompt.

#### 6.3.5 Memory test

If you want to test memory, please run **./mats -e xx** or **./mats -c xx**

Where, -c xx----- only xx% of frame buffer is detected.

Path:GT730\

#### 6.3.6 BIOS flash

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

Path:GT730\



Command:./nvflash xxx.rom -4 -5 -6 -A -y

**Notice:**

If you can not flash bios because of the bios locked, please use **./nvflash.exe /r** or **./nvflash -r** to unlock bios. And then, please use **./nvflash.exe /w** or **./nvflash -w** to lock bios after updating latest bios.

#### 6.3.7 If test OK, 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	<b>ATX POWER SUPPLY (1200W)</b>			1		
5	<b>Intel CPU Intel(R) Core(TM)2 CPU</b>		<b>local</b>	1		
6	<b>Heat sink + FAN</b>	<b>22-240000160</b>	<b>local</b>	1		
7	<b>DDR3 1333 2G</b>	<b>20-TT2605618</b>	<b>local</b>	4		
8	<b>SATA HDD</b>			1		
9	<b>SATA HDD Cable</b>	<b>14-000107070</b>		1		
10	<b>PCIEX16 VGA CARD</b>			1		
11	<b>D-SUB extend cable (Buying a local D-SUB cable by yourself)</b>			1		
13	<b>HDMI extend cable (Buying a local HDMI cable by yourself)</b>			1		
15	<b>DVI-HDMI</b>	<b>04G460002400 /04G460002450</b>		1		
17	<b>P7H55-M/USB3</b>	<b>80-MIBBKA-G0*</b>	<b>ASUS</b>	1		