

QE P5 Verification Test Plan

Release No : 07P010005

Product Model	ONYX-195
Description	Expert Medical station 19" 400 nits LCD with Intel Core™ 2 DUO /Solo processor
Test Configuration	<input checked="" type="checkbox"/> New product <input checked="" type="checkbox"/> PCB : ONYX-195 (COM-945-A1.0) <input checked="" type="checkbox"/> BIOS : ONYX-195 BIOS Rev. 1.0 (3/03/2007) <input checked="" type="checkbox"/> Chipset : <input checked="" type="checkbox"/> North Bridge : Intel 945GM <input checked="" type="checkbox"/> South Bridge : Intel ICH7 <input checked="" type="checkbox"/> VGA Chipset : Intel 945GM <input checked="" type="checkbox"/> Audio Chipset : Realtek AC'97 Audio <input checked="" type="checkbox"/> Ethernet Chipset : Intel 82573 Gigabit Ethernet <input checked="" type="checkbox"/> I/O Chipset : IT-8712 <input checked="" type="checkbox"/> Remark : QE NPDP P5 External Report
Test Result Summary	
<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Pass with Deviation Comment: _____ _____	

2007/03/26

Issue date

Wenyuan Yang

Manager

Andrew Ku

Test Engineer

Summary Table of contents :

Summary Table of contents	2
Platform Information	3
1. Dynamic / Boot_UP Burn_In Test	4
2. Power On and Reset Test	4
3. OSD Control Function Test	4
4. I/O Peripheral Function Test	4
5. Power Consumption Test	6
6. Timer Accuracy Test	7
7. Network HUB / LAN Connection Test	7
8. Hardware compatibility	8
9. O.S. Compatibility Test	13
10. BIOS Function Test	13
11. Performance Test	14

There are 3 test results in this document; they are described as follows:

Pass: Function worked perfectly

Fail: Function failed and must be modified in the next version

N/A: Outside of specification or no test equipment

Platform Information:

Item	Device Information	Test Item
PCB Model / Version	ONYX-195 (COM-945-A1.0)	1,2,3,4,5,6,7,8,9,10,11
BIOS / Version	ONYX-195 BIOS Rev.1.0 (3/03/2007)	1,2,3,4,5,6,7,8,9,10,11
CPU Type	Intel Core™2 CPU T7200@2.00GHz	1,2,3,4,5,6,7,8,9,10,11
Memory Type	ELPIDA / E.DSL.DDRII1G200ELP667G / 1GB /DDRII 667	1,2,3,4,5,6,7,8,9,10,11
Primary IDE Master	FUJITSU / MHV20808H / 80GB / ATA-100 / S-ATA	1,2,3,4,5,6,7,8,9,10,11
Primary IDE Slave	TEAC /DV -285L-R	1,2,3,4,5,6,7,8,9,10,11
CRT	ViewSonic E773	1,2,3,4,5,6,7,8,9,10,11
LCD	AUO / M1906N04V1 / 1280x1024 /19 “	1,2,3,4,5,6,7,8,9,10,11
Compact Flash	N/A	
Riser Card	N/A	
Backplane	N/A	
Operating System	[<input type="checkbox"/>] Linux-RedHat 9.0 or [<input checked="" type="checkbox"/>] Fedora Core 4	9
	Windows Server 2003 English Version / Standard Edition 5.2.3790	N/A
	Windows XP Professional English Version V2002 Service Pack 2	9
	Windows 2000 Professional English Version V5.00.2195 Service Pack 4	N/A
	Windows 98SE English Version V4.10.2222A	N/A
	Windows NT Workstation 4.0 English Version Service Pack 6	N/A
	MS-DOS 6.22	1,2,3,4,5,6,7,8,9,10,11
	Power Supply	AC TO DC Power : FSP 180-50MP /24VDC /180W
	AT Power :	N/A

Test Result for Certification

1. Dynamic / Boot_UP Burn_In Test

Test Method	Test Condition	Result		
		Pass	Fail	N/A
Diagnostics Software Burn-In Test.	0°C ~60°C, 30%RH~80%RH, 48 hrs			X
Power On/Off Test.	0°C ~60°C, 30%RH~80%RH, 24hrs			X
High Temperature Storage Test (Just for PPC)	60 °C (48 Hours)	X		
Low Temperature Storage Test (Just for PPC)	-20 °C (48 Hours)	X		
Humidity Test (Just for PPC)	40 °C/95%RH (48 Hours)	X		
Cold Start Test (Just for PPC)	0 °C (Doing 50 times Power On/Off)	X		

2. Power On and Reset Test

Test Method	Test Condition	Result		
		Pass	Fail	N/A
Power On/Off Test in DOS Mode-100V Power Function Test	10 times in Room Temperature	X		
Power On/Off Test in DOS Mode-210V Power Function Test	10 times in Room Temperature			X
KB Reset in Dos Mode-110V Power Function Test	20 times in Room Temperature	X		
Hardware Reset in Dos Mode-110V Power Function Test	20 times in Room Temperature	X		

3. OSD Control Function Test

Test Method	Result		
	Pass	Fail	N/A
OSD Control Test	X		
OSD – On Screen Display Test	X		
OSD Light Test	X		

4. I/O Peripheral Function Test

I/O Peripheral Function Test –I/O Function	Result		
	Pass	Fail	N/A
Floppy Connector / Driver A:			X
Primary IDE Master			X
Primary IDE Slave	X		
Secondary IDE Master			X
Secondary IDE Slave			X
Third IDE Master			X
Third IDE Slave			X
RAID 0 Function Test			X
RAID 1 Function Test			X
SATA1 / Serial ATA Connector 1	X		
SATA2 / Serial ATA Connector 2			X
SATA3 / Serial ATA Connector 3			X

SATA4 / Serial ATA Connector 4			X
Compact Flash – Type I	X		
Compact Flash – Type II			X
DOC (Disk On Chip)			X
DOM (Disk On Module) – 40 Pin			X
DOM (Disk On Module) – 44 Pin			X
COM 1	X		
COM 2-232	X		
COM 2-422	X		
COM 2-485	X		
COM 2-Ring /+5V /+12V	X		
COM 3			X
COM 4			X
COM 5	X		
COM 6	X		
PS/2 Mouse & Keyboard (Internal)			X
PS/2 Mouse & Keyboard (External)	X		
Audio Connector	X		
Audio 5.1 Channel / S/P DIF			X
LPT 1	X		
LPT 2			X
SIR / 115.2 Kbps			X
RFID	X		
USB 1/2 Ports	X		
USB 3/4 Ports	X		
USB 5 Ports	X		
USB 7/8 Ports			X
USB 2.0 1/2 Ports	X		
USB 2.0 3/4 Ports	X		
USB 2.0 5 Ports	X		
USB 2.0 7/8 Ports			X
DVI Function			X
DIO Connector			X
Card Reader	X		
PC/104			X
PC/104-Plus			X
PCI-104			X
CD-In Connector			X
TFT TTL LCD			X
TFT LVDS LCD	X		
TV-out / S Terminal	X		
TV-out / AV Terminal			X
Touch Screen – 8 Wire			X
Touch Screen – 5 Wire			X

DIMM Slots		X		
Watchdog IRQ n				X
Watchdog Software Control		X		
CPU FAN Connector		X		
System FAN Connector		X		
Front Panel	Result			
		Pass	Fail	N/A
Power On Button		X		
IDE LED		X		
External Buzzer				X
On Board Buzzer		X		
Power LED		X		
Reset Switch				X
Keyboard Lock				X
Jumpers Function	Result			
		Pass	Fail	N/A
ATX simulates AT				X
Audio Out Selection (W/O & W/ Amplifier)				X
LCD Voltage Selection				X
COM2-Ring/5V/12V Selection		X		
COM2 RS-232/422/485 Selection		X		
Clear CMOS		X		
Touch Screen Operating Mode Selection		X		
Clock Shift of TFT LCD				X
Power Connector & Function	Result			
		Pass	Fail	N/A
AC TO DC Power Connector		X		
ATX Power_12V Connector				X
AT Power Connector (P8 & P9)				X
Big 4P Power Connector				X
Mini 4P Power Connector				X
External Power Connector (-12/-5V)				X
Option ATX Power Connector (PS-ON / +5VSB)				X
LAN Connector & Function	Result			
		Pass	Fail	N/A
LAN Speed LED	LAN1	X		
	LAN2	X		
LAN Active LED	LAN1	X		
	LAN2	X		
LAN Link LED	LAN1	X		
	LAN2	X		
LAN 10/100 Ethernet		X		
LAN 1G Ethernet		X		

PCI Connector & Function	Result		
	Pass	Fail	N/A
PCI Slots	X		
PCI Express			X

5. Power Consumption Test (Run Prime95 Program)

Test Environment Mode	AC TO DC Power :FSP/FSP180-50MP				AT Power:			
	CPU: Intel Core™2 CPU T7200@2.00GHz		CPU: Intel Core™2 CPU T5500@1.66GHz		CPU:		CPU:	
OS Environment	WIN XP		WIN XP					
Normal Mode (+5V)	1.63	A	1.75	A		A		A
Suspend Mode (+5V)	1.40	A	1.52	A		A		A
5VSB in Power Off Mode (ATX Mode)	0.15	A	0.13	A	-----	A	-----	A
5VSB in Power On Mode (ATX Mode)	0.03	A	0.05	A	-----	A	-----	A
Normal Mode (+12V)	3.82	A	3.50	A		A		A
Suspend Mode (+12V)	2.70	A	2.20	A		A		A
Normal Mode (+3.3V) (ATX Mode)	0.85	A	0.82	A	-----	A	-----	A
Suspend Mode (+3.3V) (ATX Mode)	0.68	A	0.74	A	-----	A	-----	A
Normal Mode (-12V)	1.65	A	1.81	A		A		A
Suspend Mode (-12V)	1.45	A	1.50	A		A		A
Normal Mode (-5V)		A		A		A		A
Suspend Mode (-5V)		A		A		A		A

6. Timer Accuracy Test

System Clock & RTC Clock Test				
Test Method	Margin for error	Result		
		Pass	Fail	N/A
System Clock in Power On Mode	±1 second during 24 hours	X		
RTC Clock in Power On Mode	±1 second during 24 hours	X		
RTC Clock in Power Off Mode	±1 second during 24 hours	X		
Watchdog Timer Test		Result		
		Pass	Fail	N/A
Time-out Interval	10 sec	X		
	60 sec	X		
	255 sec	X		

7. Network HUB / LAN Connection Test

Location		LED Type				Result		
						Pass	Fail	N/A
LAN1 LED		Active LED				X		
		Link LED				X		
		Speed LED				X		
LAN2 LED		Active LED				X		
		Link LED				X		
		Speed LED				X		
Location	Speed	HUB Type	Cable Length	HUB Speed	Onboard LAN Speed	Result		
						Pass	Fail	N/A
LAN1	10/100/1000 Mbps	HP J4095A 24 Ports	100M	100 Mbps	100	X		
		D-Link DGS-1008T	100M	1Gbps	1000	X		
		Intel InBusiness 8 Ports	100M	100 Mbps	100	X		
		LEMEL LM-S5 5 Ports	100M	100 Mbps	100	X		
		Acton Desktop-3005	100M	100 Mbps	100	X		
		SVEC FD916H	100M	10 Mbps	10	X		
Location	Speed	Type	Cable Length	HUB Speed	Onboard LAN Speed	Result		
						Pass	Fail	N/A
LAN2	10/100/1000 Mbps	HP J4095A 24 Ports	100M	100 Mbps	100	X		
		D-Link DGS-1008T	100M	1Gbps	1000	X		
		Intel InBusiness 8 Ports	100M	100 Mbps	100	X		
		LEMEL LM-S5 5 Ports	100M	100 Mbps	100	X		
		Acton Desktop-3005	100M	100 Mbps	100	X		
		SVEC FD916H	100M	10 Mbps	10	X		

8. Hardware Compatibility

CPU Compatible Test						
Type	Clock Speed	FSB	Prime95 Version	Result		
				Pass	Fail	N/A
Intel Core™2 CPU T7200@2.00GHz			V2414	X		
Intel Core™2 CPU T5500@1.66GHz			V2414	X		
Memory Compatibility Test						
Brand / Memory Size	Chipset	Frequency	MemTest86 Version	Result		
				Pass	Fail	N/A
ELPIDA /DDRII 667 /512MB	E.DSL.DDRII512M2 00ELP667G		V1.65	X		
ELPIDA /DDRII 667 / 1GB	E.DSL.DDRII1G200 ELP667G		V1.65	X		

On Board Audio Function Test						
Audio Basic Function Test				Result		
				Pass	Fail	N/A
System Sound				X		
CD_In				X		
CD_In Sound Recorder						X
Play Sound Recorder				X		
Line Out				X		
Line In				X		
Line In Sound Record				X		
MIC Speaker		Dynamic		X		
		Condenser		X		
MIC Sound Recorder		Dynamic		X		
		Condenser		X		
Audio 5.1 Channel with S/P DIF Function Test				Result		
				Pass	Fail	N/A
2-channel mode for stereo speaker output						X
4-channel mode for 4 speaker output						X
6-channel mode for 5.1 speaker output						X
S/P DIF function Test		Input				X
		Output				X
On Board TV Function Test				Result		
				Pass	Fail	N/A
NTSC		AV Terminal				X
PAL						X
NTSC		S Terminal		X		
PAL				X		
On Board LCD Function Test						
TFT LCD	Type	Voltage	Result			
			Pass	Fail	N/A	
LVDS	AUO G065VN01 V.0 / 6.5" / 640x480 / 18bit (4:3)	3.3V			X	
	AU B104SN02 / 10.4" / 800*600 / 18bit (4:3)	3.3V			X	
	Hyundai HT12X11-200 / 12.1" / 1024*768 / 18bit (4:3)	3.3V			X	
	AU M150XN07 V.2 / 15" / 1024x768 / 24bit (4:3)	3.3V			X	
	AU M170EG01 / 17" / 1280*1024 / 48bit (4:3)	5V			X	
	AU M170XW01 V.1 / 17" / 1280x768 / 24bit (16:9)	5V			X	
TTL	Toshiba LTM10C209A / 10.4" / 640*480 / 18bit (4:3)	5V			X	
	NEC NL8060AC31-12 / 12.1" / 800*600 / 18bit (4:3)	3.3/5V			X	
	Sharp LQ121S1DG11 / 12.1" / 800*600 / 18bit (4:3)	3.3V			X	
	LG LM151X2-C2TH / 15.1" / 1024x768 / 18bit (4:3)	3.3V			X	
	Fujitsu FLC38XGC6V-06 / 15" / 1024*768 / 36bit (4:3)	5V			X	

PCI Slot Function (PCI Adapter Card) Test				
Model	Type	Result		
		Pass	Fail	N/A
SC3000 CMI8738/C3DX	Sound Card	X		
Takram DC-395U V1.02	SCSI Card	X		
ADAPTEC Ultra160 SCSI ASC-29160	SCSI Card	X		
I-VIEW CP-1400AS (with Age STD-477FAI CCD)	Capture Card	X		
Intel GD82559 10/100 Mbps Fast Ethernet Adapter	LAN Card	X		
Realtek RTL8139B Ethernet	LAN Card	X		
D-Link DGE-530T 1000BASE-T Gigabit Ethernet Adapter	LAN Card	X		
D-Link DWL-520+ Wireless LAN	LAN Card	X		
ADAPTEC 1420SA RoHS 4-Port SATA II RAID	RAID Card	X		
D-Link DU-520 USB 2.0	USB Hub Card	X		
Tekram TR-822 Serial ATA 150 [SA-001] + SATA HDD Seagate ST3120026AS 120GB	SATA Card	X		
PCI-Express Function Test				
Model		Result		
		Pass	Fail	N/A
SksKconnect SK-9E21D 10/100/1000Base-T Adapter PCI-Express X1 LAN Card				X
WinFast PX6200 TC TDH PCI-Express X16 VGA Card				X
HDD Compatibility Test				
Model		Result		
		Pass	Fail	N/A
FUJITSU / MHV20808H / 80GB / ATA-100 / S-ATA		X		
CD/DVD-ROM Compatibility Test				
Model		Result		
		Pass	Fail	N/A
TEAC /DV -285L-R		X		
Creative DVD1240E / 12X / DVD-ROM				X
IBM HL-DT-ST / GCR-8480B / 48X / CD-ROM				X
Pioneer / DVD-121 / 16X / DVD-ROM				X
PHILIPS CDD5301 / PBC03210G / 32X10X40 / 12X DVD / CD-RW / DVD-ROM				X
SAMSUNG / SH-W08 / DVD+R 8X / DVD-R 8X / CD-R 32X				X
NEC / ND-2500A / DVD R/RW / +R8X-R8X				X
TEAC / CD-540E / 40X / CD-ROM				X
IDE Cable Function test				
IDE Model		Result		
		Pass	Fail	N/A
40 Pin Cable ATA33				X
44 Pin Cable ATA33				X
80 Pin Cable ATA100				X

USB Function Test				
USB Basic Function Test (USB1/2 on USBRJ1 connector)		Result		
		Pass	Fail	N/A
USB Controller		X		
USB 2.0 Controller		X		
USB Keyboard Support		X		
USB Mouse Support				X
USB 1.1 Compatible Test		Result		
		Pass	Fail	N/A
USB 1.1 Compatible Test		X		
USB 2.0 Compatible Test		Result		
		Pass	Fail	N/A
USB 2.0 Compatible Test		X		
USB 2.0 Function Test		Result		
		Pass	Fail	N/A
Use High Speed Device USB2.0 CD-R/W Ben-Q / 4824W1-ON2 to play Nero CD/DVD Speed		X		
USB Device Full Loading Test		Result		
		Pass	Fail	N/A
Model	Type	Pass	Fail	N/A
CyberLink Power DVD XP4.0	Remote Control	X		
BENQ 4824WI-ON2	CD-RW	X		
Thumb Device	Storage	X		
USB HDD IBM IC25N020ATCS04-0 / 20GB / 4200RPM (1394b + USB2.0 External Box (MP-FBHUB20P-V2.0 E10-7073161D60))	HDD	X		
Mitsumi FL3.5D353GUE/FUE	Floppy	X		
ASUS DRW-1604P	DVD-RW	X		
Floppy Disk Controller Function Test		Result		
		Pass	Fail	N/A
Copy and compare file between C: and A / B:				X
Change Floppy to None value				X
Swap FDD				X
Peripheral Compatibility-Storage Device				
Model	Interface	Result		
		Pass	Fail	N/A
FUJITSU MCB3064SS	SCSI			X
IO-Mega zip 100 parallel port	Parallel			X
IO-Mega zip 100MB Internal ATAPI Drive	IDE			X
DOC2000 M-System / MD2200-D16				X
PQI FC512 512MB	Type-I CF Card	X		
HITACHI / HMS360402D5CF00	Type- II CF Card			X
Digital I/O Connector Test		Result		
		Pass	Fail	N/A
Input Address: ()				X
Output Address: ()				X

VCC: ()					X
DIO-1 Function Test					X
DIO-2 Function Test					X
Adapter Compatibility- Industry Control Card PC/104, PC/104+, PCI-104 Modules					
Interface	Model	Type	Result		
			Pass	Fail	N/A
PC/104	AAEON PCM-5600	Modem Module			X
	AAEON PCM-3115B	PCMCIA Module			X
PC/104+	AAEON PCM-3430	SCSI Module			X
PCI-104	AAEON PCM-3730	Intel 82559 LAN Module			X
On-Board SCSI Function Test					
Model	Interface	Result			
		Pass	Fail	N/A	
RICOH MP7060S	SCSI-CDROM 24X			X	
Fujitsu MCB3064SS	SCSI-MO Device			X	
Seagate 32155W	SCSI-HDD 2.15GB			X	
IBM DNES-309170	SCSI-HDD 9GB			X	
Seagate ST39205LW/P	9GB / Ultra160 / LVD			X	
Modular System Industrial Workstation Function Test			Result		
			Pass	Fail	N/A
AC/DC power outlet / inlet			X		
Power On / Off			X		
CD-ROM drive included			X		
Front USB Port			X		
Digital brightness controller			X		
OSD Function Test			X		
COM Port Send / Receive Test			Result		
			Pass	Fail	N/A
Use software program: COMTEST.exe			X		
Use software program: LL5.exe			X		
Disk On Module [DOM] Compatibility Test					
Model	Interface	Result			
		Pass	Fail	N/A	
DOM-256-026P Rev: A1K20	IDE 40 Pin			X	
DOM-064-426P Rev: A2A11	IDE 44 Pin			X	
Mini PCI Card Compatibility Test					
Model	Interface	Result			
		Pass	Fail	N/A	
GM-100 WLAN 11g Mini PCI Card (Model: Sky Thru GC-100)	Wireless LAN	X			

GM-101 WLAN 11b/g 54Mbps Mini PCI Card (Model: VNT6655AM)	Wireless LAN	X		
PER-C200 4 Port USB 2.0 Mini PCI Card (Chip: NEC D720101GJ)	USB 2.0	X		
COM/LPT Ports & RS-232/422/485 Function Test		Result		
		Pass	Fail	N/A
RS-422 for COM2		X		
RS-485 for COM2		X		
COM1		X		
COM2		X		
COM3				X
COM4				X
COM5		X		
COM6		X		
LPT1		X		
LPT2				X
Card Bus(PCMCIA) Compatibility Function Test				
Model		Result		
		Pass	Fail	N/A
PQI 16MB Compact Flash Adapter (64MB PQI CF Card inserting)				X
Kingston datapack DP-PCM2 / 2GB (PC Card TypeII HDD)				X
PCi GW-NS54SG Cardbus Adapter Wireless LAN Type-II				X
PQI 16MB Compact Flash Adapter (64MB PQI CF Card inserting)				X
PCi GW-NS54SG Cardbus Adapter Wireless LAN Type-II				X

9. O.S. Compatibility Test

Installation Operation System Compatibility Test			Result		
			Pass	Fail	N/A
Linux-Red-Hat 9.0 Kernel 2.4.20-8					X
Fedora Core 4			X		
Windows Server 2003 English Version / Standard Edition 5.2.3790					X
Windows XP Professional English Version V2002 Service Pack 2			X		
Windows 2000 Professional English Version V5.00.2195 Service Pack 4					X
Windows 98SE English Version V4.10.2222A					X
Windows NT Workstation 4.0 English Version Service Pack6					X
MS-DOS 6.22			X		
Utility and Driver Test					
OS	Drivers Version		Result		
			Pass	Fail	N/A
Fedora Core 4	Chipset Software	Default Driver	X		
	Graphics Media	Default Driver	X		
	LAN Driver	Default Driver	X		
	Audio Driver	Default Driver	X		
Windows Server 2003 English Version	Chipset Software				X

/ Standard Edition 5.2.3790	Graphics Media				X
	LAN Driver				X
	Audio Driver				X
Windows XP Professional English Version V2002 Service Pack 2	Graphics Media	Mobile Intel(R) 945GM Express Chipset Family Ver: 6.14.10.4704	X		
	LAN1 Driver	Intel(R) PRO/1000 PL Network Connection Ver: 9.5.12.0	X		
	LAN2 Driver	Intel(R) PRO/1000 PL Network Connection Ver: 9.5.12.0	X		
	Audio Driver	Realtek AC'97 Audio ver:5.10.0.5820	X		
Windows 2000 Professional English Version V5.00.2195 Service Pack 4	Chipset Software				X
	Graphics Media				X
	LAN Driver				X
	Audio Driver				X
Windows 98SE English Version V4.10.2222A	Chipset Software				X
	Graphics Media				X
	LAN Driver				X
	Audio Driver				X
Windows NT Workstation 4.0 English Version 4.00.1381 Service Pack6	Chipset Software				X
	Graphics Media				X
	LAN Driver				X
	Audio Driver				X

10. BIOS Function Test

Test Item	Result		
	Pass	Fail	N/A
Memory Beep Test	X		
Standard CMOS Setup Test	X		
Boot Sequence Test	X		
Power Management Test			
APM Power Management Test	X		
ACPI Power Management Test	X		
Power On Function Test	X		
Wake Up Event Test	X		
Power On after Power Failure Test	X		
CMOS Backup / Clear CMOS Test			X
Boot ROM Test (PXE)	X		
Supervisor / User Password Test	X		
CRT / LCD / TV Function Test	X		
TV Standard Function Test	X		
Init Display First Function Test			X
On-Chip Serial ATA Function Test	X		
SATA Mode-IDE/RAID Function Test			X
PC Health Status			
Voltage Monitor Test	X		
FAN Speed Monitor Test	X		
Temperature Monitor Test	X		

Swap Floppy Drive & Boot up Floppy Seek Function Test			X
USB Onboard Device Function Test	X		
COM Address / IRQ Test	X		
LPT Address / IRQ Test	X		
BIOS AWDFLASH Program Test	X		

11. Performance Test

English Windows 2000 Professional with SP4 5.00.2195 + 1024x768x32bit / 60Hz + Direct 9.0		
ZD WinBench 99 V2.0		Unit
Business Disk WinMark99	6510	Thousand bytes/sec
High-End Disk WinMark99	22000	Thousand bytes/sec
Business Graphics WinMark99	339	
High-End Graphics WinMark99	918	
Final Reality V1.01—BenchMark Test (Reality Marks)		
2D Image	39.06	
3D	6.32	
Bus transfer	69.24	
Overall	23.18	Reality marks
ZD 3D Winbench 2000 V1.1		
3D WinMark 2000	121	Frames / sec
ZD Multimedia Content Creation Winstone 2004 V1.0.1		
Multimedia Content Creation Winstone 2004		28.5
3Dmark2001SE Pro (Demo version)		
3DMark2001SE Build 330_Benchmark mode		4641
English Windows XP Professional with SP2 V2002 + 1024x768x32bit / 60Hz + Direct 9.0		
Business Winstone 2004 v1.0.1		
Business Winstone2004		N/A