



Figure 5-4



Figure 5-5

(As Figure 5-4)

**DeskTop:** Displays the current Resolution Setting, Color Setting, Font Size and Refresh Rate for the monitor. Drag the slider to specify values for each setting and click **OK** to put changes into effect.

(As Figure 5-5)

**Information:** Displays the current display settings and information of your computer. **Run this program each time Windows starts** - check box: Select this option to run Expertool immediately each time Windows starts.

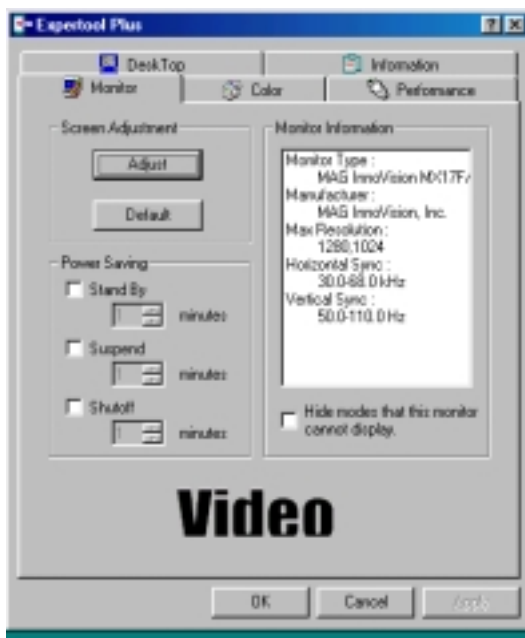


Figure 5-6



Figure 5-7

(As Figure 5-6)

**Screen Adjustment:** Selects **Adjust** to adjust the screen position with the keyboard. If you wish to cancel any changes you've made, select **Default**.

**Monitor Information:** Shows information about your monitor.

**Hide modes that this monitor cannot display:** Unchecking this box will allow you to set your display to modes that this monitor cannot display correctly. This may lead to an unusable display and/or damaged hardware.

**Power Saving:** Allows you to adjust the Power Saving settings for Standby, Suspend or Shut-off mode.

**Standby** check box: This option instantly places your monitor in standby mode, which delivers minimal power savings but provides optimal recovery time.

**Suspend** check box: This option instantly places your monitor in Suspend mode, which delivers maximum savings but requires a somewhat longer recovery time than Standby mode.

**Shut-off** check box: This option effectively turns your monitor off, and recovery time is practically equivalent to turning the monitor on using the monitor's power switch.

(As Figure 5-7)

**Color:** Moves the slider to adjust the gamma value. The farther you slide this to the right, the higher the gamma value, and the brighter your display will be. The more you slide this to the left, the lower the gamma value, and the dimmer your display will be.



Figure 5-8

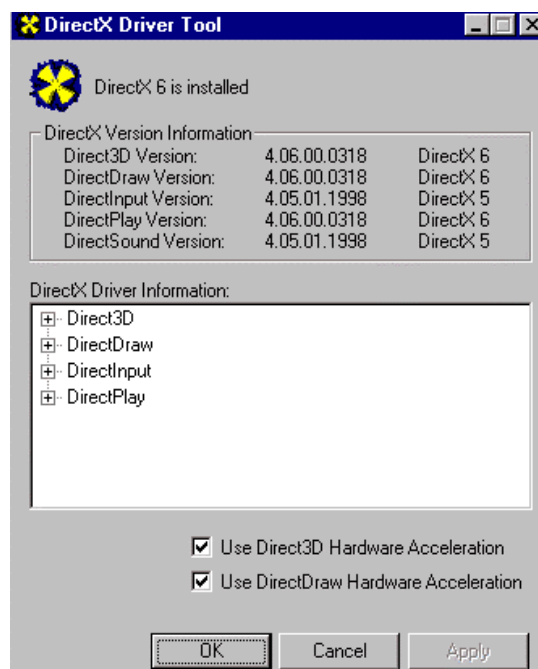


Figure 5-9

(As Figure 5-8)

**Memory/Core Clock Setting Slider Control:** Allows you to adjust your video memory/core clock for peak performance and maximum stability. The higher you set the memory/core clock the greater the performance increase. But changing this value

# Chapter 6 Technical Information

will affect the stability of the VGA card. It is recommended that you use the original setting.

(As Figure 5-9)

**DirectX:** DirectX properties vary depending on the version of windows you are running, the version of DirectX installed, and the type of DirectX enabled drivers installed. This dialog box will also display the system's DirectX capabilities, and related information.

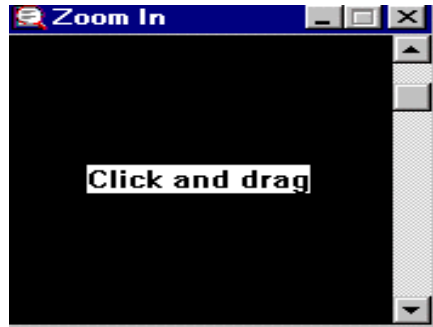


Figure 5-10

(As Figure 5-10)

**Zoom In:** Clicks on the client area and drags the mouse to zoom the desktop.

(As Figure 5-2)

**Minimize:** Close the menu and minimizes this application.

**Close:** Close this application and disables the features it supports.

## Display Memory Configuration

### Memory-Resolution/Color

The table below is for reference only.

	256 color	16bit	32bit
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<b>640x480</b>	120Hz	120Hz	120Hz
<b>800x600</b>	120Hz	120Hz	120Hz
<b>1024x768</b>	120Hz	120Hz	120Hz
<b>1152x864</b>	100Hz	100Hz	100Hz
<b>1280x960</b>	85Hz	85Hz	85Hz
<b>1280x1024</b>	85Hz	85Hz	85Hz
<b>1600x900</b>	100Hz	100Hz	100Hz
<b>1600x1200</b>	75Hz	75Hz	75Hz

## Monitor Connector Pin Assignments

<b>Pin no.</b>	<b>Function</b>	<b>Pin no.</b>	<b>Function</b>
1	Red Video	9	+5V
2	Green Video	10	Sync Return (ground)
3	Blue Video	11	NC
4	NC	12	DDC DATA
5	Ground	13	Horizontal Sync
6	Red Return (ground)	14	Vertical Sync
7	Green Return (ground)	15	DDC CLOCK
8	Blue Return (ground)		

## DVI Connector Pin Assignments and Description

Pin no.	Signal Name	Description
1	TX2-	TMDS negative differential output, channel 2
2	TX2+	TMDS positive differential output, channel 2
3	SHLD2/4	Shield for TMDS channel 2/4
4	TX4-	TMDS negative differential output, channel 4
5	TX4+	TMDS positive differential output, channel 4
6	DDC_CLK	DDC2B Clock
7	DDC_DAT	DDC2B Data
8	Vertical Sync	Signal for the analog interface
9	TX1-	TMDS negative differential output, channel 1
10	TX1+	TMDS positive differential output, channel 1
11	SHLD1/3	Shield for TMDS channel 1/3
12	TX3-	TMDS negative differential output, channel 3
13	TX3+	TMDS positive differential output, channel 3
14	+5V Power	Logic +5V supply
15	Ground	Ground reference for +5 volt power pin. Used as return by Hsync and Vsync Signals
16	HPD	Signal is driven by monitor to enable the system to identify the presence of a monitor.
17	TX0-	TMDS negative differential output, channel 0
18	TX0+	TMDS positive differential output, channel 0
19	SHLD0/5	Shield for TMDS channel 0/5
20	TX5-	TMDS negative differential output, channel 5
21	TX5+	TMDS positive differential output, channel 5
22	SHLD Clock	Shield for TMDS clock differential pair
23	TXC+	TMDS positive differential output, channel Clock
24	TXC-	TMDS negative differential output, channel Clock

## VESA VGA Mode Table

Mode	Pixels	Colors	Windowed	Linear
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(hex)				
100h	640 by 400	256	V	V
101h	640 by 480	256	V	V
102h	800 by 600	16	V	V
103h	800 by 600	256	V	V
104h	1024 by 768	16	V	V
105h	1024 by 768	256	V	V
106h	1280 by 1024	16	V	V
107h	1280 by 1024	256	V	V
108h	80 by 60	16	V	V
109h	132 by 25	16	V	V
10a	132 by 43	16	V	V
10b	132 by 50	16	V	V
10c	132 by 60	16	V	V
10e	320 by 200	256	V	V
10f	320 by 200	64K	V	V
111	640 by 480	32K	V	V
112	640 by 480	64K	V	V
114	800 by 600	32K	V	V
115	800 by 600	64K	V	V
117	1024 by 768	32K	V	V
118	1024 by 768	64K	V	V
11a	1280 by 1024	32K	V	V
130	320 by 200	256	V	V
131	320 by 400	256	V	V
132	320 by 400	32K	V	V
133	320 by 400	64K	V	V
134	320 by 240	256	V	V
135	320 by 240	32K	V	V
136	320 by 240	64K	V	V
13d	640 by 400	32K	V	V
13e	640 by 400	64K	V	V
145	1600 by 1200	256	V	V
146	1600 by 1200	32K	V	V

## 2D Memory Configurations

Width	Height	Color	Memory Configuration	
			16MB	32MB
640	480	8-bit	V	V
640	480	16-bit	V	V
640	480	32-bit	V	V
800	600	8-bit	V	V
800	600	16-bit	V	V
800	600	32-bit	V	V
1024	768	8-bit	V	V
1024	768	16-bit	V	V
1024	768	32-bit	V	V
1152	864	8-bit	V	V
1152	864	16-bit	V	V
1152	864	32-bit	V	V
1280	960	8-bit	V	V
1280	960	16-bit	V	V
1280	960	32-bit	V	V
1280	1024	8-bit	V	V
1280	1024	16-bit	V	V
1280	1024	32-bit	V	V
1600	900	8-bit	V	V
1600	900	16-bit	V	V
1600	900	32-bit	V	V
1600	1200	8-bit	V	V
1600	1200	16-bit	V	V
1600	1200	32-bit	V	V

# Chapter 7 Trouble Shooting

**Problem:** After installation and restarting, Windows 95 informs me that display settings are still incorrect. There may be conflict between previous and current display drivers. This is caused by incomplete removal of previous display driver. Try the following steps to remove it.

**Solution:**

- (1) Use the right mouse button to click on the "My Computer" icon on your desktop.
- (2) Select "Properties" and the "System Properties" box should appear.
- (3) Click on the "Device Manager" tab.
- (4) You will see a list of devices on your computer.
- (5) Open "Display Adapters" in the list by double clicking it.
- (6) You will find two (or more) conflicting adapters listed here.
- (7) Remove all previous adapters by selecting them and selecting "Remove"
- (8) Close Device Manager and restart Windows 95.
- (9) Now your display driver should work correctly.

**Problem:** After installing the driver, Windows 95 doesn't prompt me to restart and the driver still doesn't work after a manual reboot. You may have installed similar drivers before. Try the following steps to install:

**Solution:**

- (1) Use right mouse button to click on the "My Computer" icon on your desktop.
- (2) Select "Properties" and the "System Properties" box appears.
- (3) Click on the "Device Manager" tab.
- (4) You will see a list of devices on your computer.
- (5) If "Display adapters" appears in the list, click it.  
If "Display adapters" doesn't appear, skip to step 9 and continue.
- (6) The name of your card will be listed in the box. Double click it.
- (7) The properties box of your card appears. Select "Driver" tab.
- (8) Click "Change Driver.." and follow the installation steps.
- (9) Click "Other devices" and you will see your card listed.
- (10) Click on the card, and when the properties box appears.  
Select the "Driver" tab.
- (11) Click "Change Driver.." and follow the installation steps.

**Problem:** When the system is starting up, there is a series of prolonged beeps.

**Solution:**

The VGA card may not be firmly inserted into the expansion slot. Ensure that the gold-striped bus connector of the graphics card is properly inserted into the expansion slot. Ensure this by pressing the card gently and evenly into the slot. Alternatively,



remove the card and re-insert it.

**Problem:** Monitor display flickers after Windows 95 or Windows 98 starts.

**Solution:**

Your monitor may not support the resolution or refresh rate that you have set. You must use display settings supported by the monitor. To change the display settings:

- (1) Restart your system in Windows 95/Windows 98 Safe mode. To do so:
  - a. Restart your system and when the message "Starting Windows 95/98..." appears, press F8. A list of options including Safe Mode and Command Prompt Only Mode appears.
  - b. Select Safe Mode and press **ENTER**.
- (2) Lower your monitor's resolution.  
For the resolutions supported by your monitor, refer to its manual.

When you need advanced technique service, please Complete this form and FAX to your dealer.

**Your name:**

**Phone :**

**Product S/N:**

**PCB NO.:**

<b>HARDWARE CONFIGURATION</b>	
<b>Mainboard Chipset:</b>	<b>CPU Speed:                   MHz</b>
<b>Mainboard CPU:</b>	<b>VGA Memory Type:</b>

When you need advanced technique service, please Complete this form and FAX to your dealer.

**Your name:**

**Phone :**

**Product S/N:**

**PCB NO.:**

<b>Mainboard Memory:</b> <b>MB</b>	<b>VGA Memory</b> <b>MB</b>
<b>Mainboard Brand:</b>	<b>VGA Memory Brand:</b>
<b>Cache Memory:</b> <b>KB</b>	<b>FDD/HDC Card:</b>
<b>Monitor Type:</b>	<b>Horizontal Freq. :    KHz to    KHz</b> <b>Vertical Freq. :        HZ to     HZ</b>
<b>Operating System or Test Programs:</b>	
<b>Application Software:</b>	
<b>Other Cards installed in system:</b>	
<b>Problem Description:</b>	

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