



HP Point of Sale (POS) Peripherals Configuration Guide – ap5000 Touch Screen

**Document Version 3.23
November 2010**

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1 HP ap5000 Point of Sale System

The following section covers the peripherals that are integrated on the HP ap5000 point of sale system (touch screen / MSR / vacuum fluorescent display (VFD).

1.1 HP ap5000 Touch Screen



1.1.1 Connection

The touch screen on the HP ap5000 system is integrated into the system which is connected internally via PS/2 interface. There is no user connection required for this device.

1.1.2 Windows Drivers for the Touch Screen

The drivers for HP ap5000 touch screen may be obtained from the HP.COM web site / from the "HP Point of Sale System Software and Documentation CD" or the HP factory image. In the HP factory image, the touch screen drivers are located "C:\xxxx\ap5000 Touch Drivers" folder.

Note: Under Microsoft Vista, the touch screen install process must be run with ADMINISTRATOR privileges.

The following is an overview of the steps to install the touch screen drivers and applets:

1. Start the touch screen installer from the location that was mentioned in the beginning of this section.

Note: On the ap5000 unit with a Microsoft Windows image, the drivers for the ap5000 touch screen are pre-installed in the image.

2. Follow the prompts that appear on the screen.
3. After the drivers are installed, please select the option to calibrate the touch screen monitor and follow the instructions on the screen.

Details installation instructions

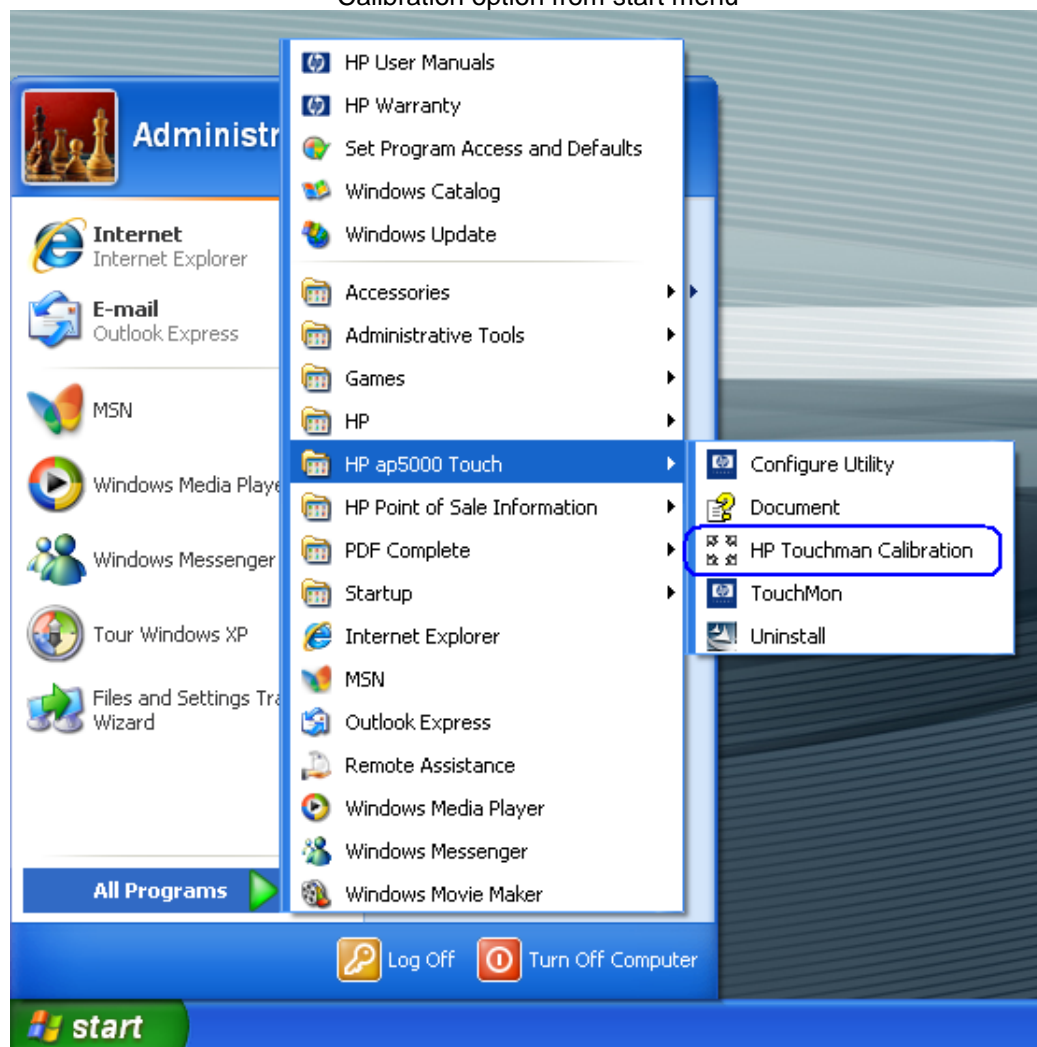
1. Start the touch screen installer from the location that was mentioned in the beginning of this section.

Note: On the ap5000 unit with a Microsoft Windows image, the drivers for the ap5000 touch screen are pre-installed in the image.

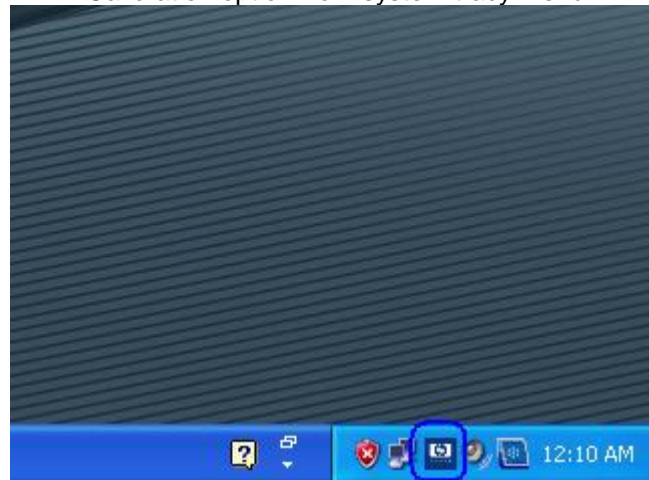
One must have ADMINISTRATOR privileges in order to install the drivers.

2. Follow the prompts that appear on the screen.
3. After the drivers are installed, please select the option to calibrate the touch screen monitor and follow the instructions on the screen by launching the calibration option in the start menu or from the system tray.

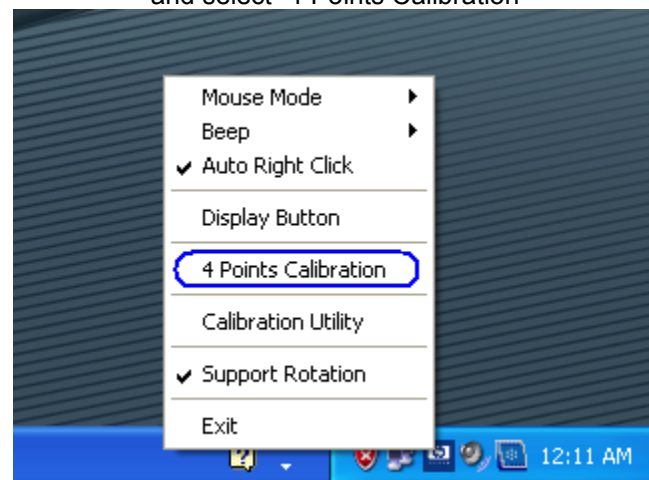
Calibration option from start menu



Calibration option from system tray menu



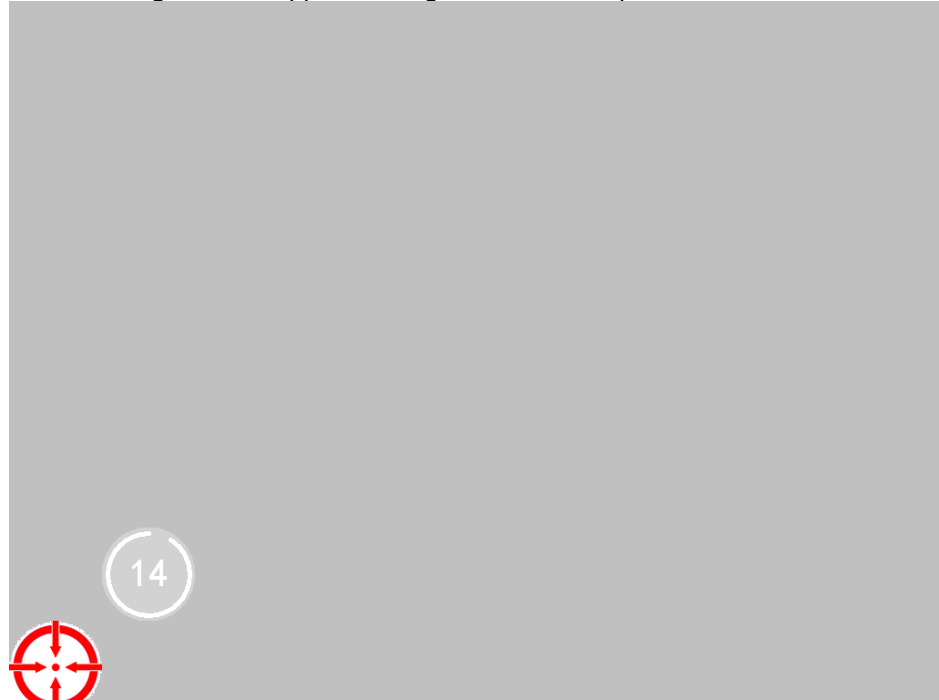
Right click on the touch screen option and select "4 Points Calibration"



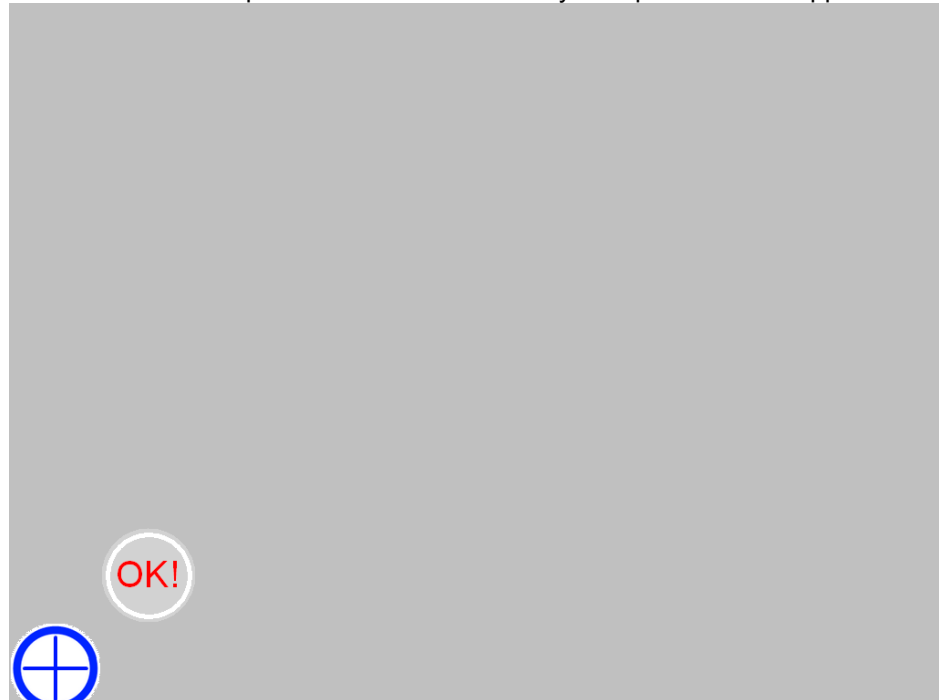
The calibrate option for HP ap5000 is four button calibration; one button appearing in each corner of the screen.

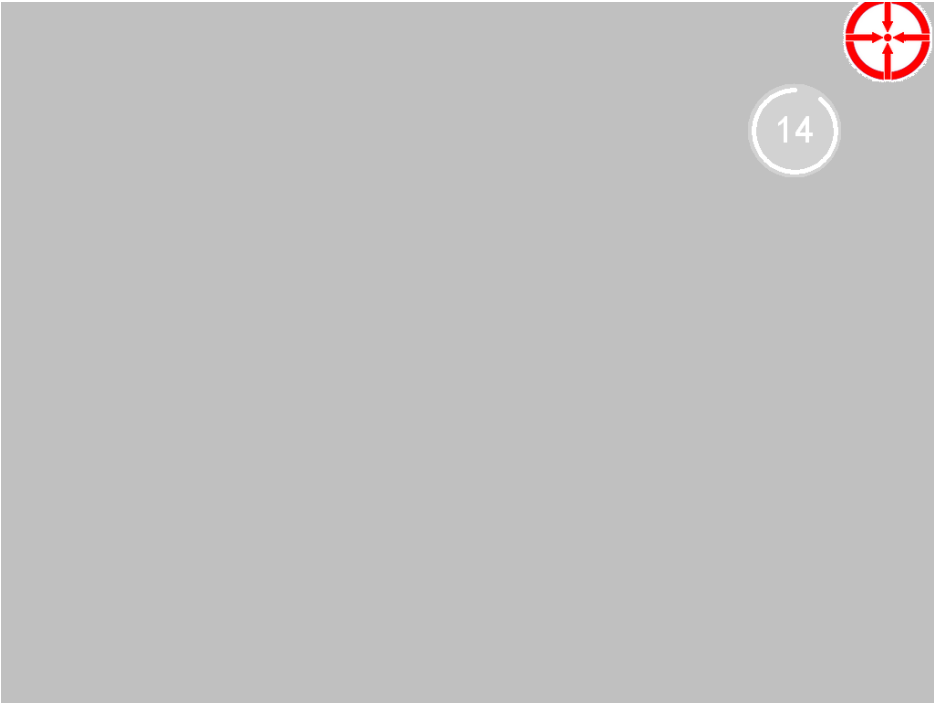
Note: When the red circle appear on the display, touch and hold the center of the red circle until it says OK.

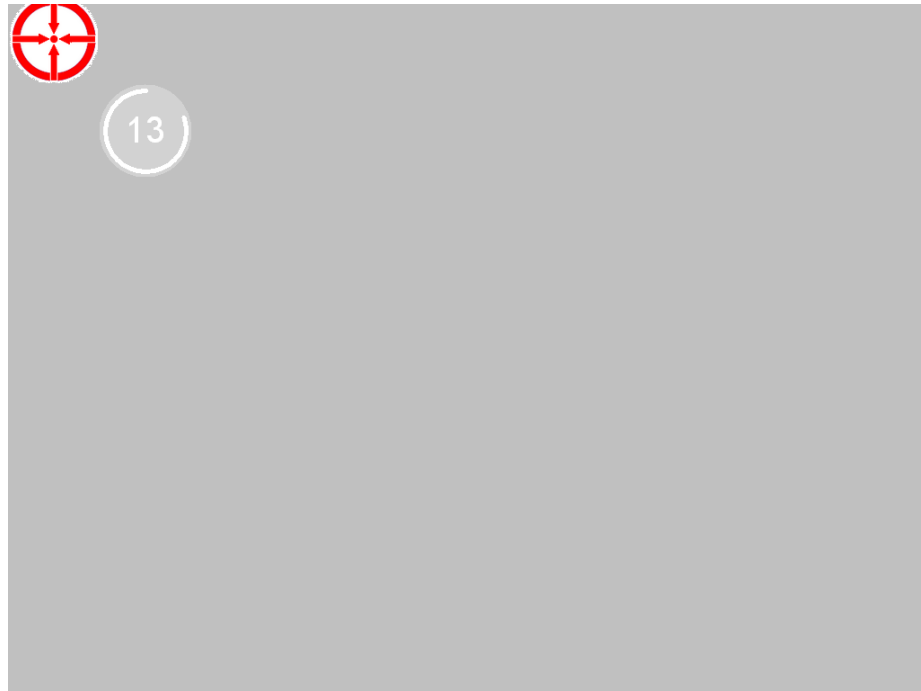
The following screens appear during the calibration process:



After the calibration point has been successfully accepted an “OK” appears:



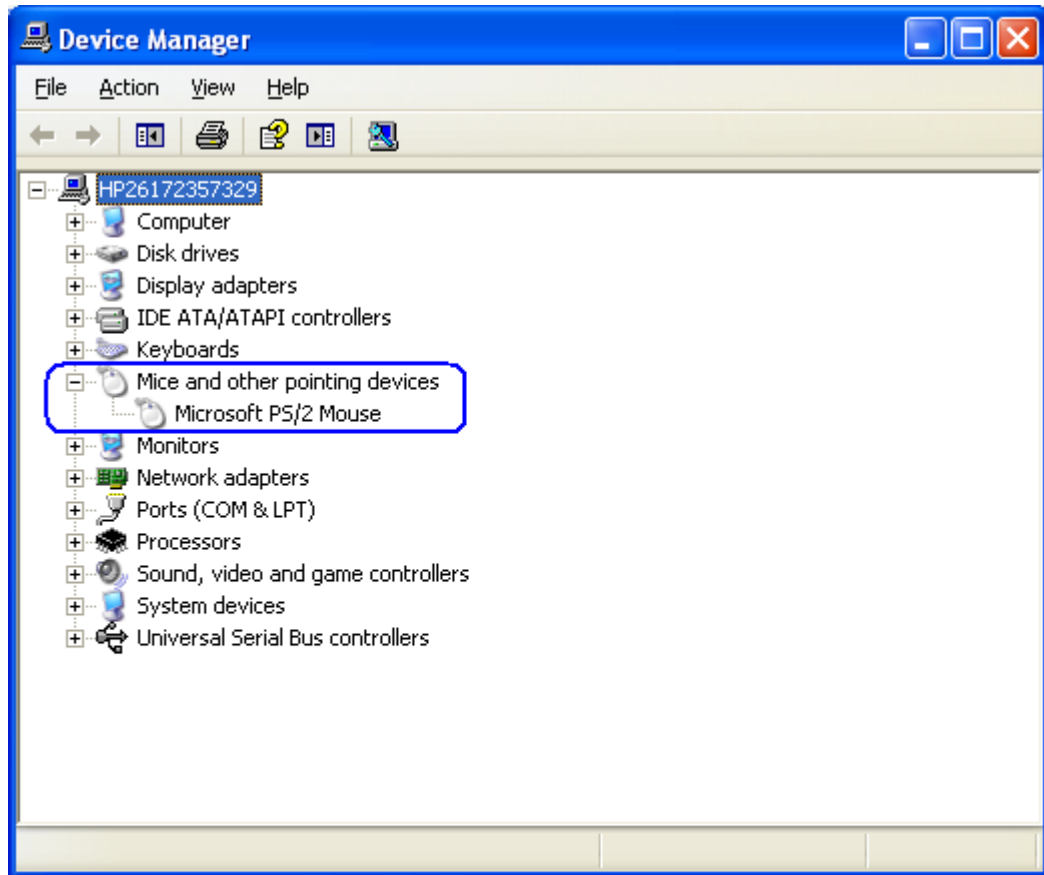




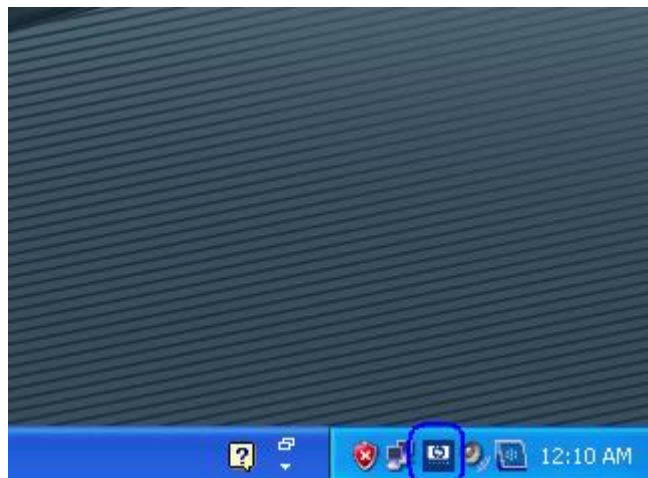
After all four points have been successfully calibrated, several screens will appear that read and write the calibration parameters. The following is a screen capture of the read screen that will appear:



The following screen is showing Windows device manager after the HP ap5000 drivers are installed:



After Windows has loaded the device drivers for the touch screen there will be an HP icon in the system tray:



1.1.3 OPOS Drivers for the ap5000 Touch Screen

No OPOS drivers are needed for the touch screen.

1.1.4 Testing the Touch Screen

Touch several places on the monitor screen and the mouse cursor should be present where the monitor was touched.

1.1.5 JPOS Drivers for the ap5000 Touch Screen

No JPOS drivers are needed for the touch screen.

1.2 HP ap5000 10” Display



1.2.1 Connection

The HP ap5000 10” display can be attached to the back of the ap5000 unit by replacing VFD. The ap5000 10” display is connected via VGA connector on the I/O panel of the unit.

1.2.2 Windows Drivers for the HP ap5000 10” display

No additional drivers are necessary. The Intel video drivers that are used for the ap5000 integrated (touch screen) video are drivers that are needed to drive the 10” display.

1.2.3 OPOS Drivers for the HP ap5000 10” Display

No OPOS drivers are needed for the touch screen.

1.2.4 Testing the HP ap5000 10” Display

Once the second monitor is enabled in the Windows operating system, video should appear on the 10” display.

1.2.5 JPOS Drivers for the HP ap5000 10” Display

No JPOS drivers are needed for the touch screen.

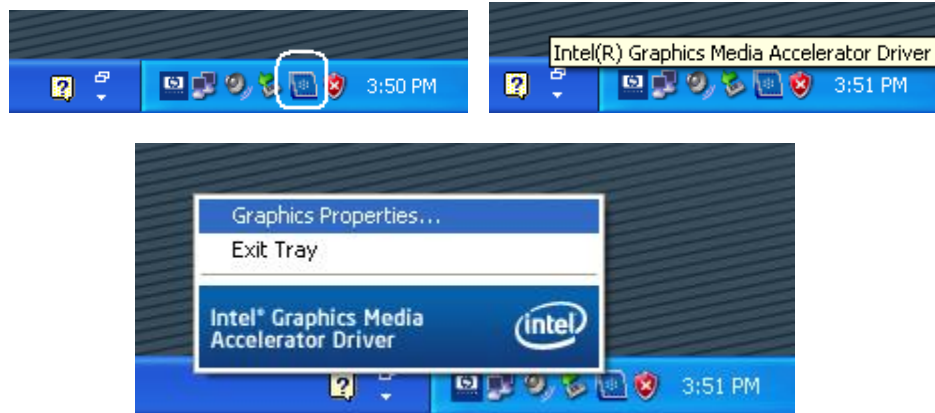
1.2.6 HP ap5000 Clone Mode Setup

1.2.6.1 Quick Setup

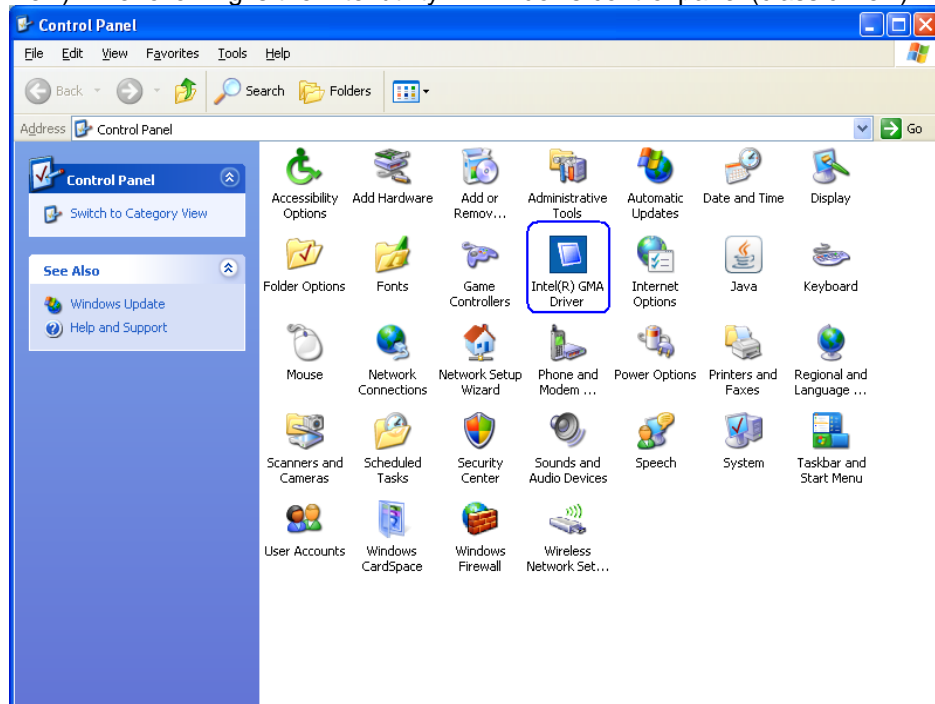
1. Launch the Intel Graphics utility from the system tray by right clicking on the Intel Graphics icon and selecting “Graphics Properties” or launch the Intel GMA driver utility from Windows control panel (classic view).
2. In the operating mode drop down box select “Intel® Dual Display Clone” option.
3. Confirm that two monitor option appears in the “Display Section”
4. Click the OK button in the Intel Graphics utility.
5. Confirm you want to keep the desktop changes. If this is not confirmed the changes will not take affect and in 15 seconds the video will revert back to the older setting.
6. After confirming this selection the same video will appear on both screens.

1.2.6.2 Detail Setup

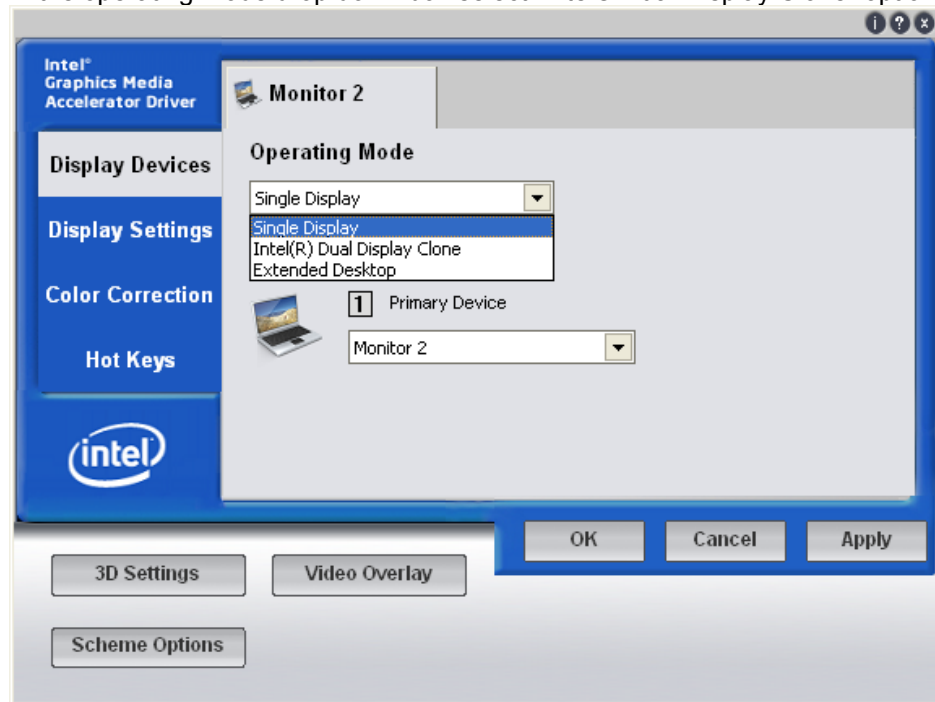
1. Launch the Intel Graphics utility from the system tray by right clicking on the Intel Graphics icon and selecting "Graphics Properties" or from control panel (classic view)



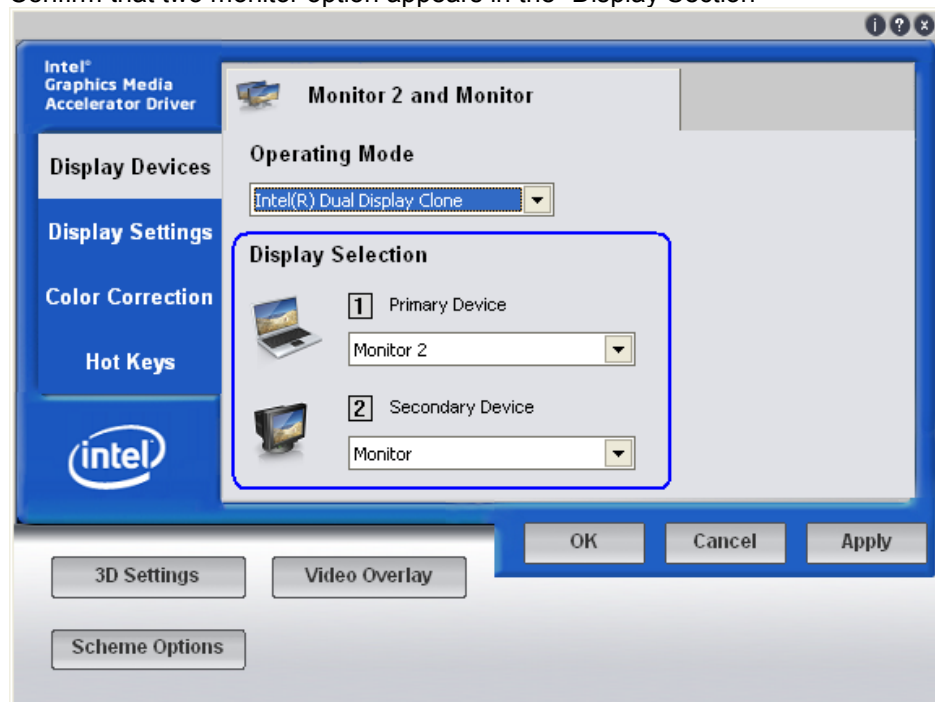
or launching the Intel GMA driver utility from Windows control panel (classic view). The following is the Intel utility in Windows control panel (classic view):



2. In the operating mode drop down box select “Intel® Dual Display Clone” option.



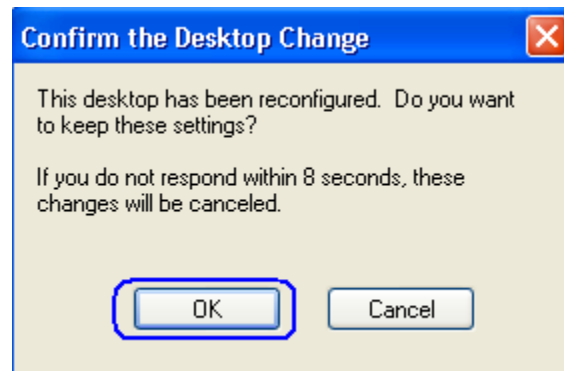
3. Confirm that two monitor option appears in the “Display Section”



4. Click the OK button in the Intel Graphics utility.



5. Confirm you want to keep the desktop changes. If this is not confirmed the changes will not take affect and in 15 seconds the video will revert back to the older setting.



6. After confirming this selection the same video will appear on both screens.

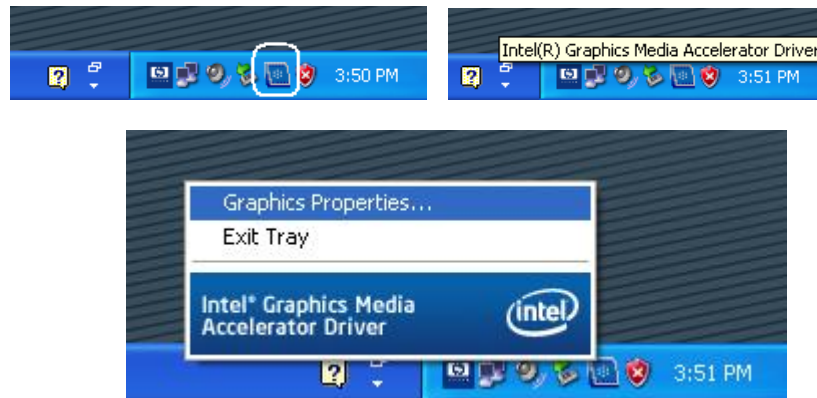
1.2.7 **HP ap5000 Extended Desktop Setup**

1.2.7.1 **Quick Setup**

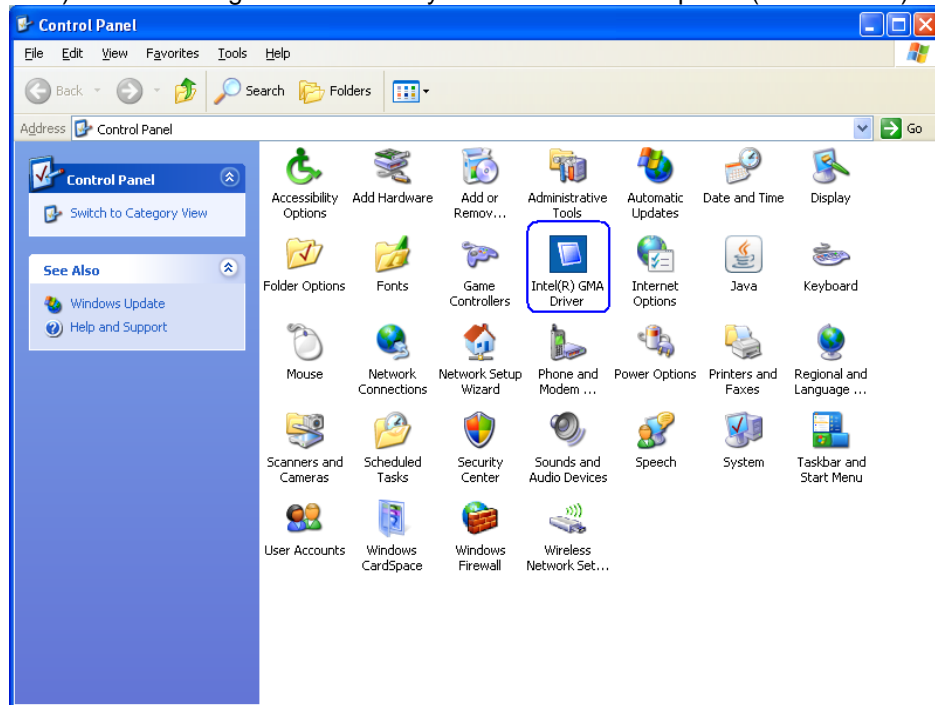
1. Launch the Intel Graphics utility from the system tray by right clicking on the Intel Graphics icon and selecting “Graphics Properties” or launch the Intel GMA driver utility from Windows control panel (classic view). The following is the Intel utility in Windows control panel (classic view):
2. In the operating mode drop down box select “Extended Desktop” option.
3. Confirm that two monitor option appears in the “Display Section”
4. Click the OK button in the Intel Graphics utility.
5. Confirm you want to keep the desktop changes. If this is not confirmed the changes will not take affect and in 15 seconds the video will revert back to the older setting.
6. After confirming this selection the second display will display the background bitmap file that has been selected.

1.2.7.2 **Detail Setup**

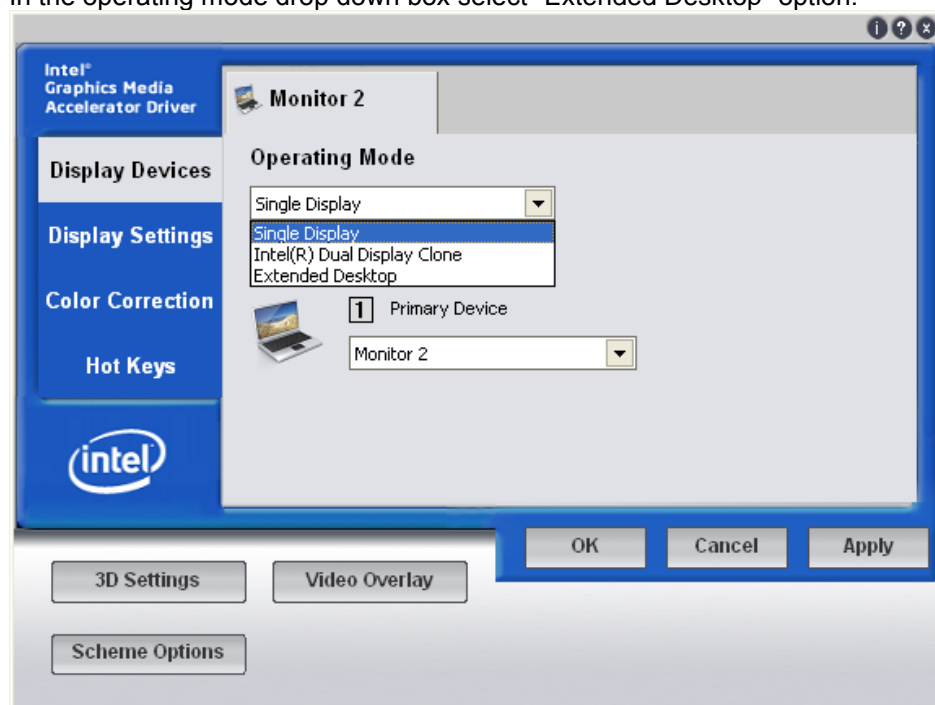
1. Launch the Intel Graphics utility from the system tray by right clicking on the Intel Graphics icon and selecting “Graphics Properties” or from control panel (classic view)



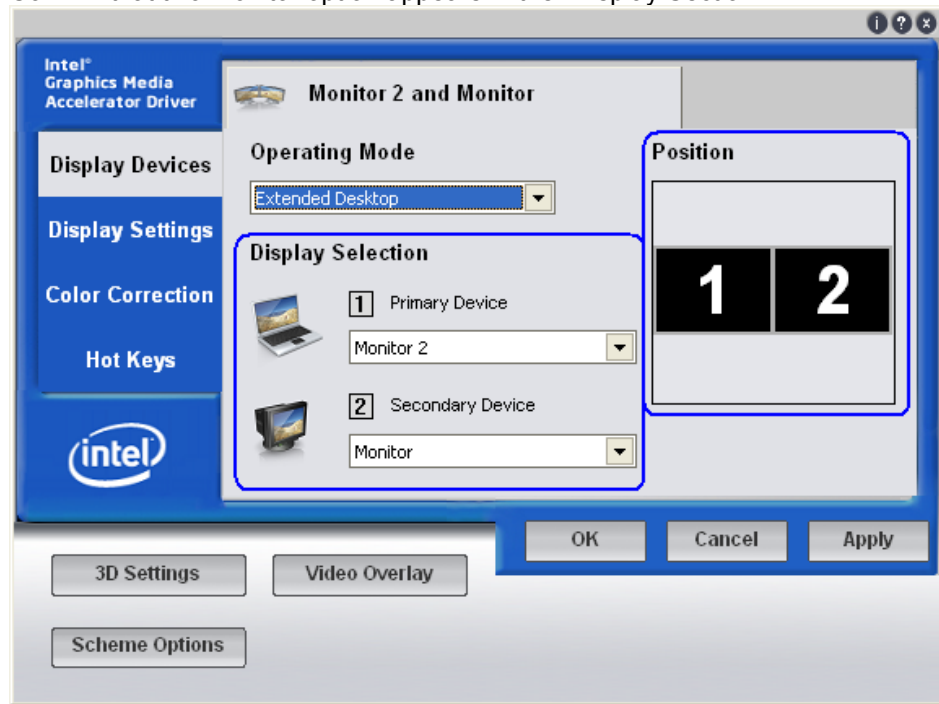
or launching the Intel GMA driver utility from Windows control panel (classic view). The following is the Intel utility in Windows control panel (classic view):



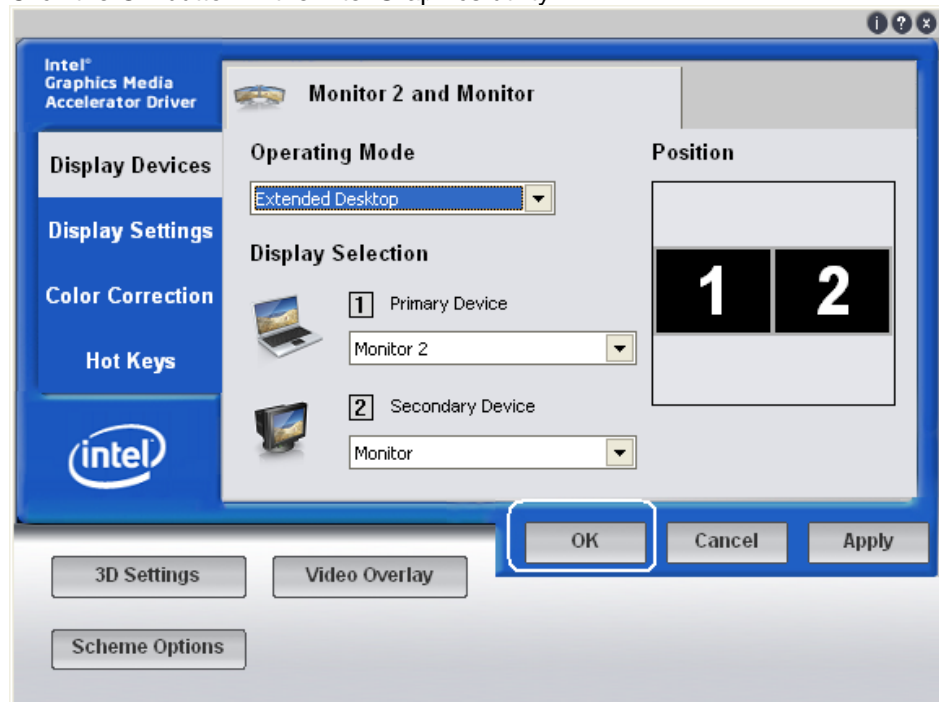
2. In the operating mode drop down box select "Extended Desktop" option.



3. Confirm that two monitor option appears in the “Display Section”



4. Click the OK button in the Intel Graphics utility.



5. Confirm you want to keep the desktop changes. If this is not confirmed the changes will not take affect and in 15 seconds the video will revert back to the older setting.



6. After confirming this selection the second display will display the background bitmap file that has been selected.