

Setting Control Functions

Setting Control Functions

Remote Control

- Setting the GPIB
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Display

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- Turning off the LCD Screen Backlight
- Calibration of the Touch Screen
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- Setting the Beeper (Built-in Speaker)
- Setting the preset function

Setting the GPIB

- Setting Talker/Listener GPIB address of E5052B
- Setting System Controller (USB/GPIB interface)

Other topics about Setting Control Functions

This section describes how to set the interface necessary to use the GPIB (General Purpose Interface Bus) of the E5052B.

Setting Talker/Listener GPIB address of E5052B

When controlling the E5052B using GPIB commands from the external controller connected to the GPIB connector, you need to set the talker/listener GPIB address of the E5052B.

Follow these steps to make this setting:

1. Press **System** > **Misc Setup** > **GPIB Setup** > **Talker/Listener Address**.
2. Enter the address using the **ENTRY** block keys on the front panel.

Setting System Controller (USB/GPIB interface)

When controlling an external device from the E5052B, connect the USB port of the E5052B and the GPIB port of the external device through the USB/GPIB interface.

NOTE

Do not connect two or more USB/GPIB interfaces. In the connection expert window, do not click buttons other than those specified here and do not change any other settings because doing so may cause serious damage to the functions of the E5052B.

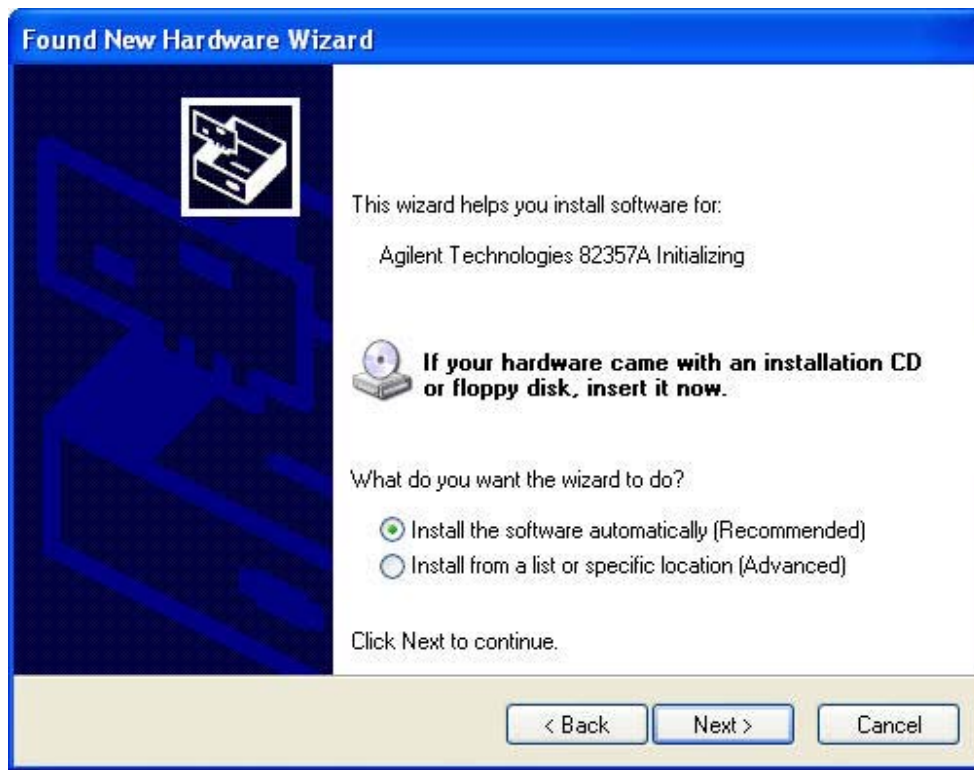
Before following the steps mentioned below, it is required to install the driver for 82357B.

Follow these steps to set the USB/GPIB interface:

1. Connect the USB port of the E5052B to the USB/GPIB interface.
2. Select **No, not this time**, then click **Next**.

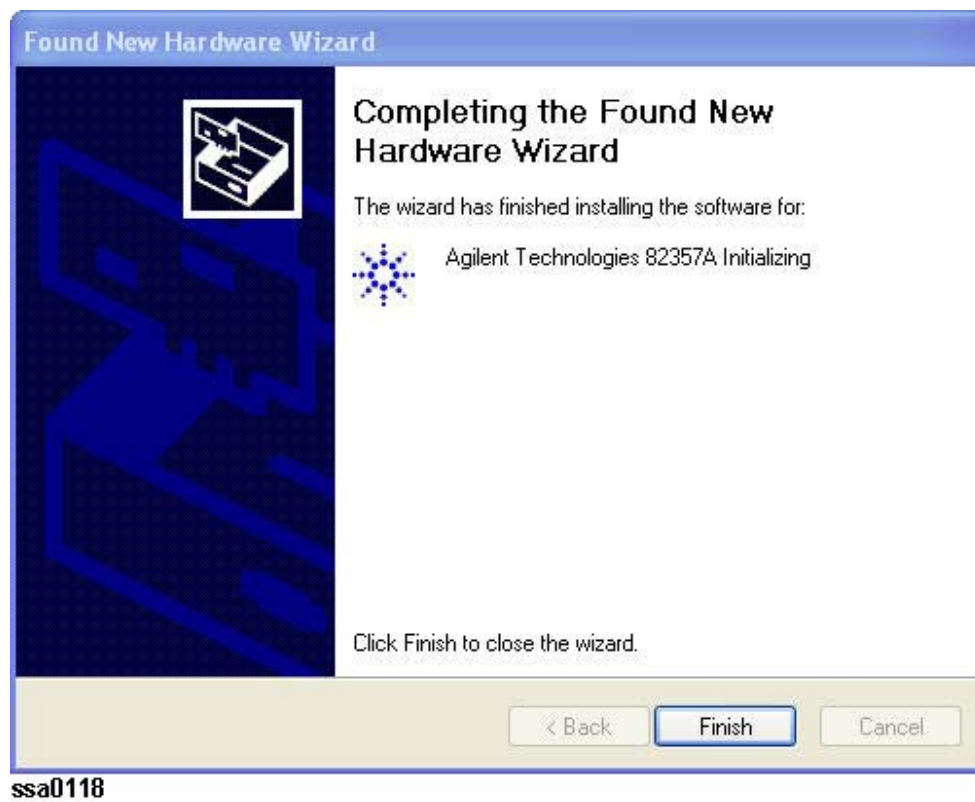


3. Select **Install the software automatically (Recommended)**, then click **Next**.



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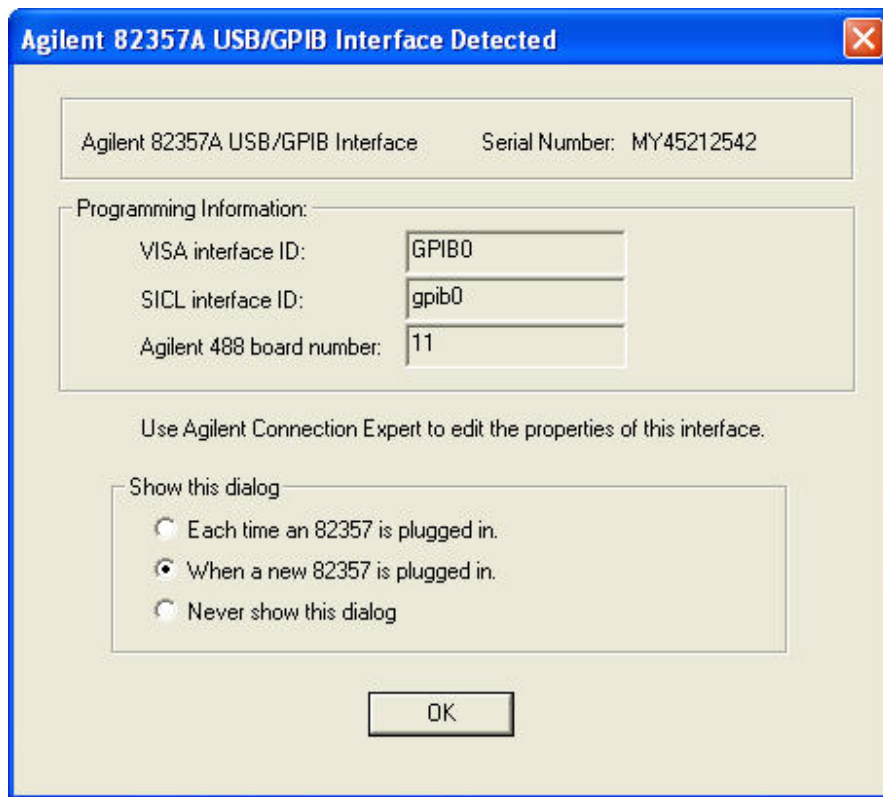
4. Click Finish.



5. The **Found New Hardware Wizard** appears again. Repeat the step 2 to 4 again.



6. Select **When a new 82357 is plugged in**, then click **OK**.

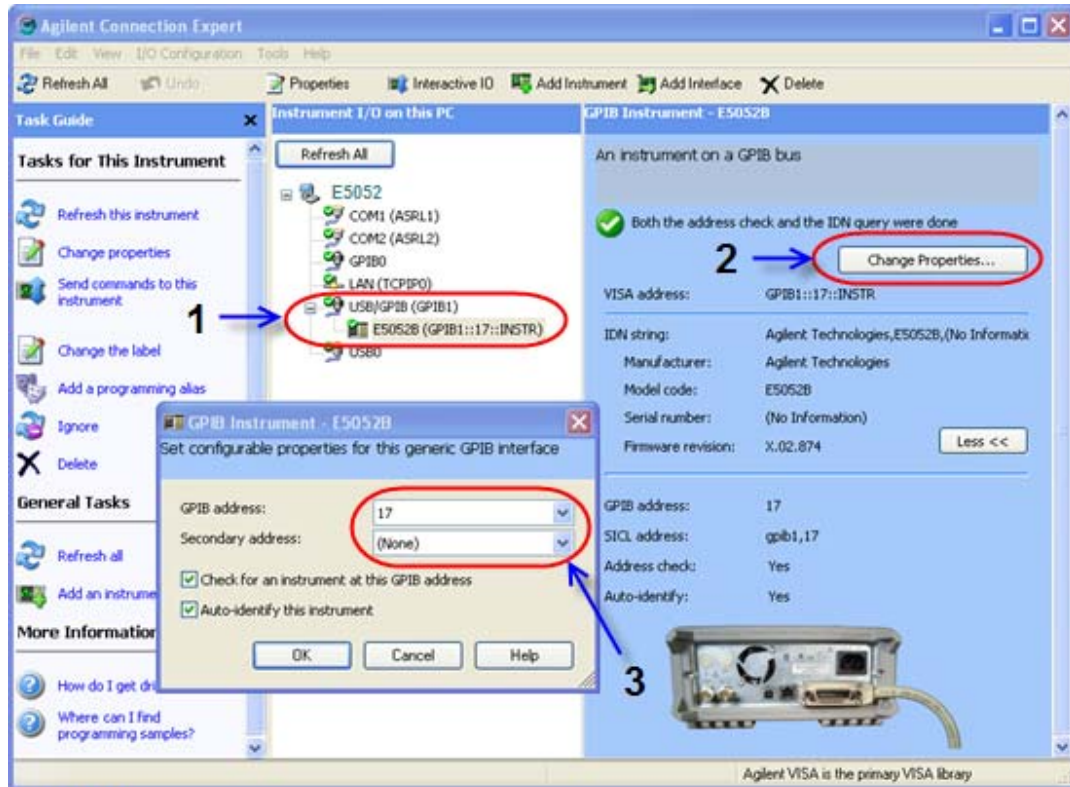


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If you need to check/change the setting of the USB/GPIB interface after connecting the USB/GPIB interface, follow these steps:

1. Press **System** key, then click **Misc Setup** > **GPIB Setup** > **System Controller Configuration**.

2. The Agilent Connection Expert appears. You can also execute Agilent Connection Expert from Task bar or Start menu in Windows XP.



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3. Select USB/GPIB (GPIBx)
4. Click Change Properties...
5. Change the setting of USB/GPIB interface.

NOTE

It is required to connect the USB/GPIB Interface to "GPIB0" as VISA Interface ID, in order to control:

Power Meter for the Power Calibration

External Signal Source for the Frequency Offset

Remote Control Using HTTP

- Enabling Web Server

- How to Start VNC Server Configuration

Other topics about Setting Control Functions

You can access the web page installed in the E5052B by using the Hypertext Transfer Protocol (HTTP) and the E5052B's IP address from the external PC's web browser. This function is called an web-enabled analyzer. Through the built-in web page, you can control the E5052B remotely and display the measurement screen on external PCs.

The following browsers are recommended:

- Java Script enabled browser
- Internet Explorer
- Netscape

The following information will help you to remotely control the E5052B via the built-in web page.

Network

Configure the E5052B's network correctly. For detailed information on configuration and notes, see Configuring the Network.

Enabling Web Server

Enable the web server for the E5052B so that it may allow access from an external PC. Follow these steps:

1. Press **System** > **Misc Setup** > **Network Setup**.
2. Click **Web Server** to turn it on.

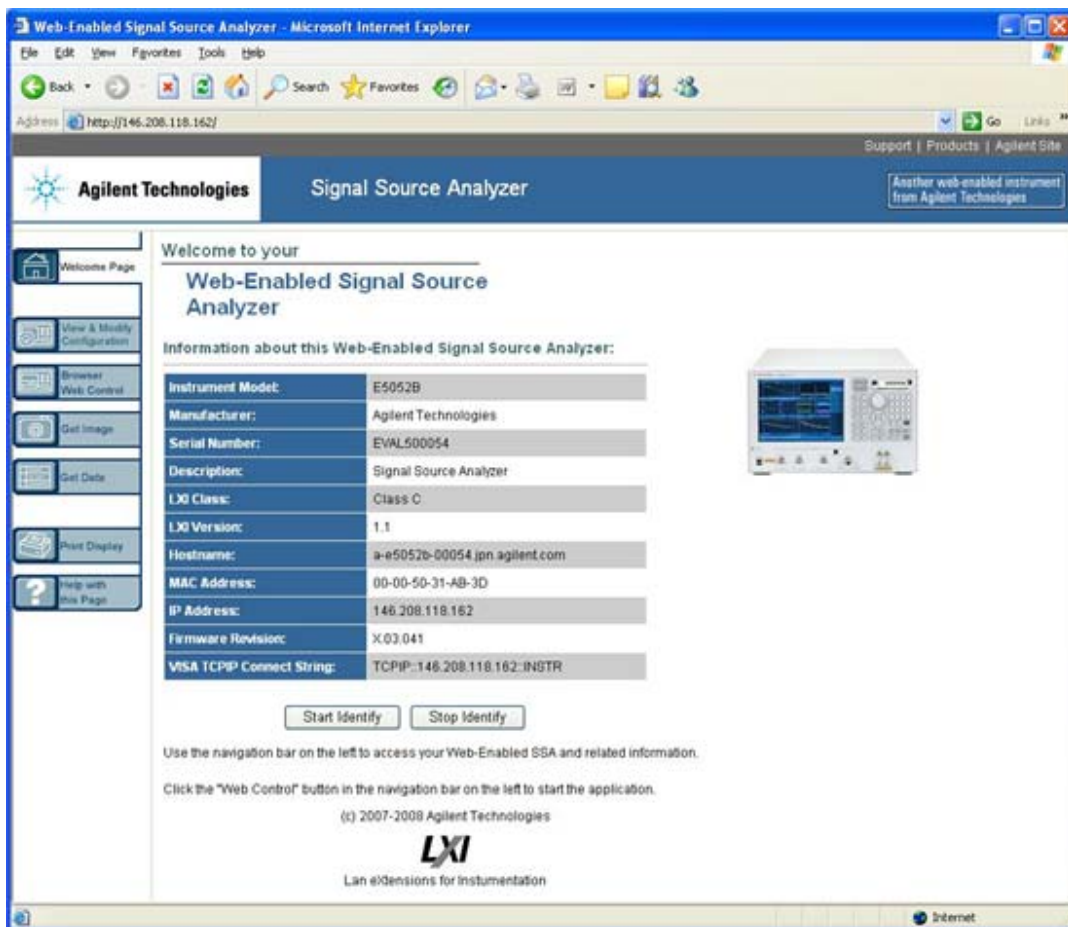
NOTE

The external PC must have the latest version of Java Runtime Environment installed otherwise the connection to the E5052B might not work properly. To install Java Runtime Environment, see <http://www.java.com/>.

Access from an external PC

1. Execute web browser on your PC.
2. *Enter* the IP address in the address bar.

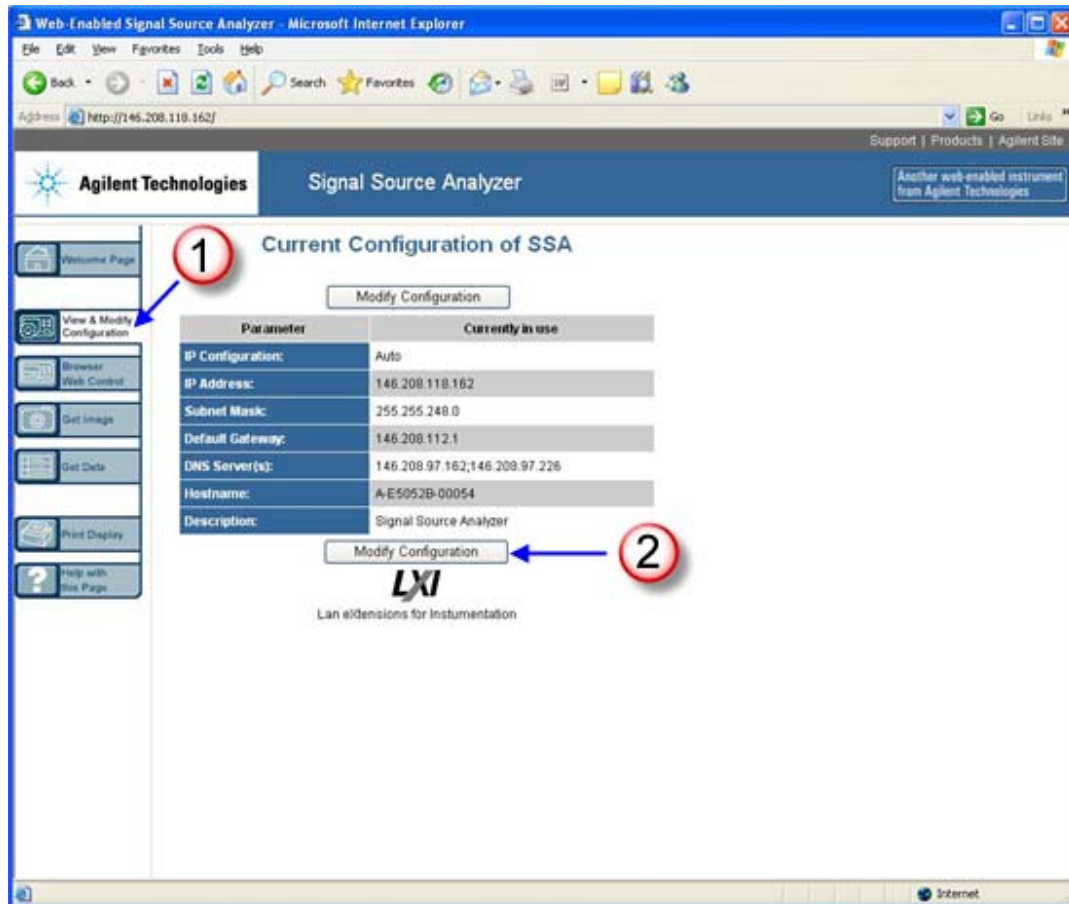
3. The following screen will be displayed.



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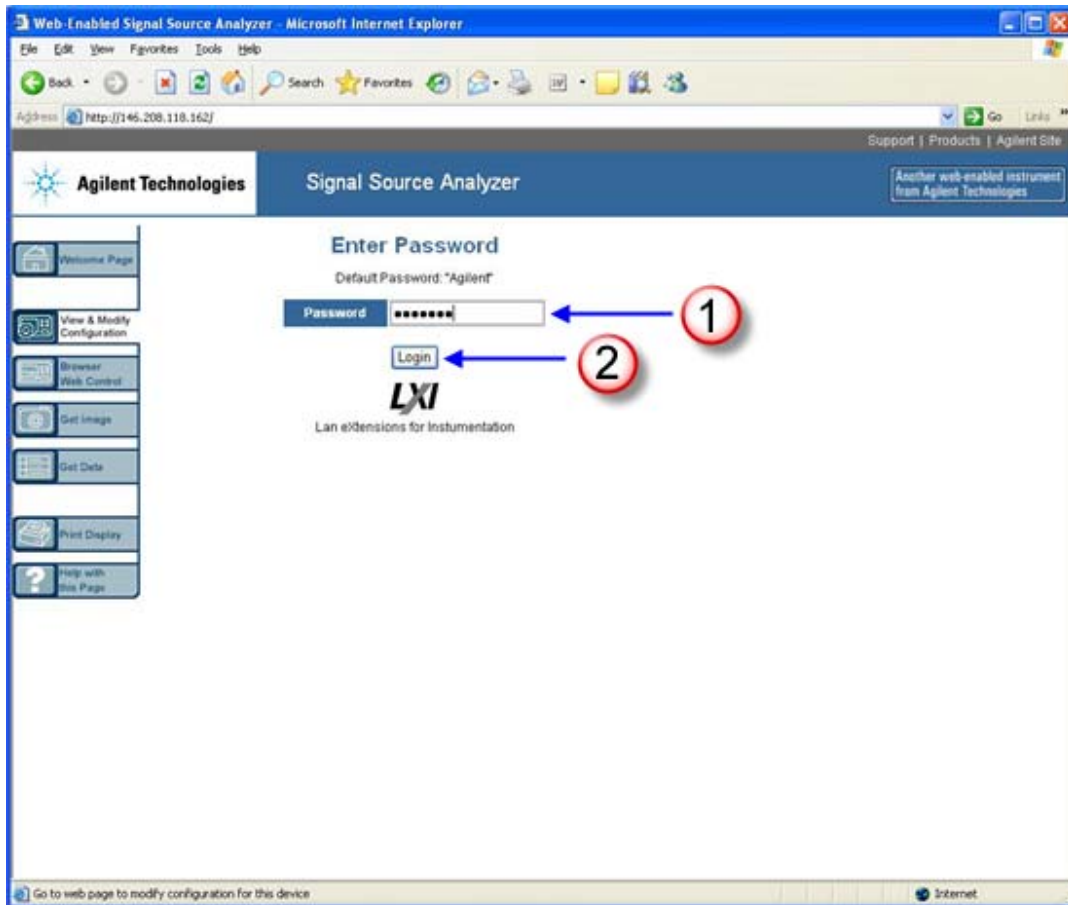
To change LAN (TCP/IP) configuration of SSA

1. Click **View & Modify Configuration** (1 in the Figure below). The following screen appears:



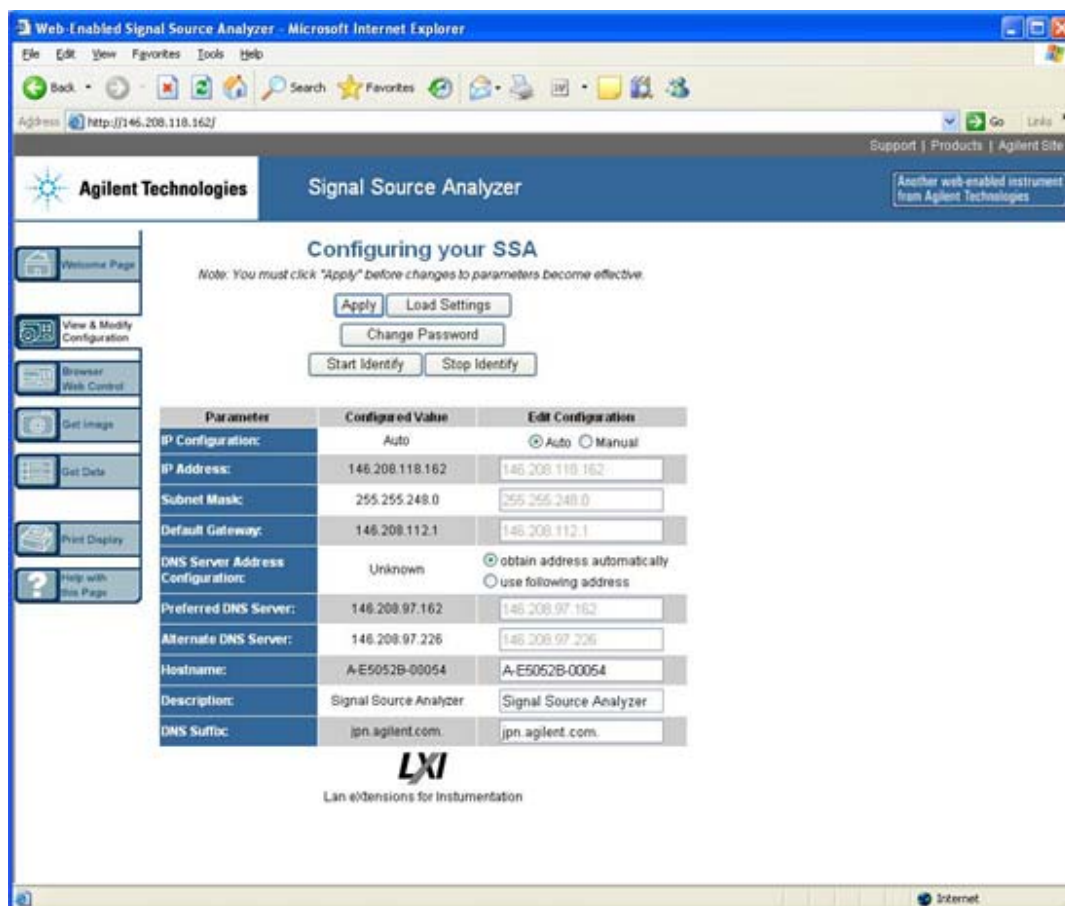
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2. Click **Modify Configuration** (2 in the Figure above). Modifying this setup affects the Windows XP Internet Protocol (TCP/IP) property. The following screen appears:



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3. Enter the password (Default: "Agilent") in the Password field (1 in the figure above) and click **Login** (2 in the figure above). The following screen appears:



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How to Start VNC Server Configuration

Web-Enabled function is executed by the VNC server. To restrict external access, set a password for the VNC server configuration.

The following is a description of how to start the VNC server configuration. Visit the web site at <http://www.realvnc.com> for information on the password setting procedure and VNC server.

1. Press **System** > **Misc Setup** > **Network Setup**.
2. Click **VNC Server Configuration** to start the VNC Server Properties.

Turning off the Date/Time Display

The date/time display in the instrument status bar can be switched on/off using the following procedure.

1. Press **System** > **Misc Setup** > **Clock Setup**.
2. Click **Show Clock** to toggle the date/time display **ON/OFF**.

Other topics about Setting Control Functions

Calibration of the Touch Screen

When you have executed system recovery on the E5052B, you have to calibrate the touch screen. Follow the procedure described below to calibrate the touch screen.

1. Press **System** Key.
2. Click **Service Menu** > **Test Menu** > **Adjust Touch Screen**.
3. The touch screen calibration screen appears.
4. Touch the x mark on the upper left with your finger. The mark x appears also on the lower left, upper right, and lower right. Touch the x marks in that order with your finger.
5. Touching the four locations described above with your finger automatically concludes the touch screen calibration.

NOTE

With no operation on the touch screen calibration screen for a preset time, it automatically closes and the previous measurement screen reappears.

Other topics about Setting Control Functions

Setting Display Colors

- Selecting Display Mode
- Setting Display Color
- Resetting the Display Colors to Factory Defaults

Other topics about Setting Control Functions

Selecting Display Mode

You can select the display mode of the LCD display from two options: normal display (background: black) and inverted display (background: white). In normal

display, the colors of items are preset so that you can recognize them easily on the display of the instrument. On the other hand, in inverted display, items are preset to colors obtained by almost completely inverting the default settings of the normal display; this mode allows you to use data easily when storing it into a graphic file.

The selection procedure is as follows:

1. Press **Display** key.
2. Click **Color Type**. **Normal** indicates normal display and Invert indicates **Invert** display.

Setting Display Color for each item

You can set the display color to the normal display or to the inverted display separately for each of the following items:

- Data/memory trace
- Labels and lines of graphs
- File display of the limit test and limit lines
- Background

Set the color of each item by specifying the amounts of red (R), green (G), and blue (B) contained in the color. You can specify each level of R, G, and B in 256 steps (0 to 255). Therefore, 16.77 million colors in total are available by combining the color levels. The table below shows the R, G, and B values for the main colors as a reference.

Color	R	G	B
White	255	255	255
Red	255	0	0
Cyan	0	255	255
Gray	128	128	128
Yellow	255	255	0
Blue	0	0	255
Black	0	0	0

Green	0	255	0
Magenta	255	0	255

The selection procedure is as follows:

1. Press **System** > **Misc Setup** > **Display Setup** > **Color Setup**.
2. Click **Normal** (for normal display) or **Invert** (for invert display).
3. Press the softkey corresponding to the item for which you want to set the display color.

SoftKey	Function
Data Trace (1-8)	Specifies the data trace of traces 1 to 8
Memory Trace (1-8)	Specifies the memory trace of traces 1 to 8
Graticule Main	Specifies the graticule label and the outer lines of graphs
Graticule Sub	Specifies the grid lines of graphs
Limit Fail	Specifies the fail display in the limit test result
Limit Line	Specifies the limit line
Background	Specifies the background

4. Click Red and select the amount of red (R) from 0 to 255.
5. Click Green and select the amount of green (G) from 0 to 255.
6. Click Blue and select the amount of blue (B) from 0 to 255.

Resetting the Display Colors to Factory Defaults

You can reset the display colors in normal display and inverted display to the values of the preset factory state.

The selection procedure is as follows.

1. Press **System** > **Misc Setup** > **Display Setup** > **Color Setup**.
2. Click **Normal** (for normal display) or **Invert** (for inverted display).
3. Click **Reset Color** > **OK**.

Checking the Product Information

- Checking the Serial Number
- Checking the Firmware Revision
- [Checking the Option Number](#)
- Checking the HDD Revision

Other topics about Setting Control Functions

Checking the Serial Number

The serial number of the firmware installed in the E5052B can be checked using the following procedure.

1. Press **System > Product Information**.
2. The Product Information dialog which shows the serial number and options is displayed.
3. Press **OK** to close the dialog box.

Checking the Firmware Revision

The revision number of the firmware installed in the E5052B can be checked using the following procedure.

1. Press **System > Product Information**.
2. The Product Information dialog which shows the firmware revision is displayed.

Checking the Option Number

The option number of the firmware installed in the E5052B can be checked using the following procedure.

1. Press **System > Product Information**.
2. The Product Information dialog which shows the option number is displayed..
3. Press **OK** to close the dialog box.

NOTE

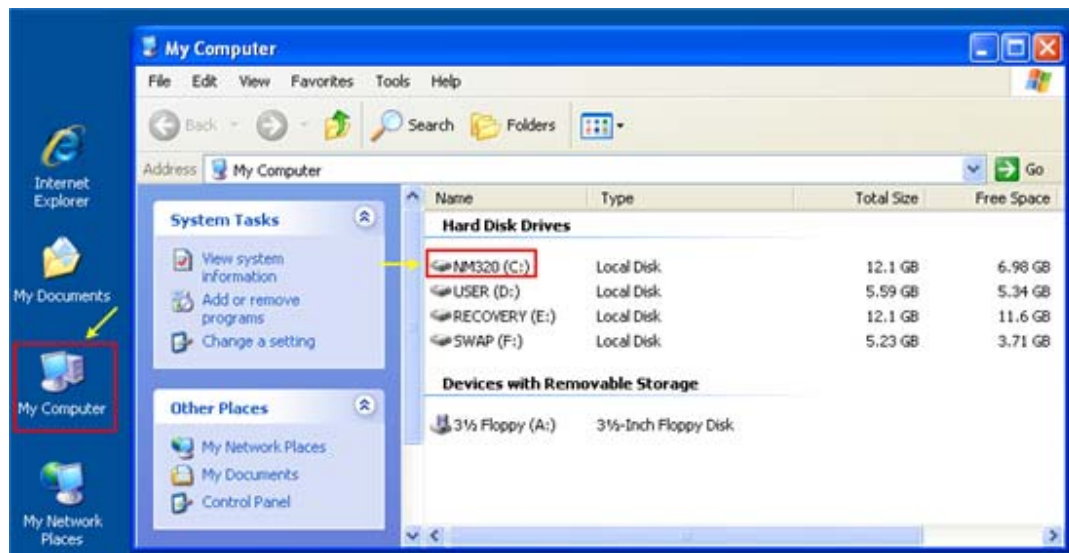
The Product Information dialog box also provides information about *IP* Address, Mac Address and USB ID.

Checking the HDD Revision

1. Press **System** > **Product Information**.
2. The Product Information dialog which shows the HDD revision is displayed..
3. Press **OK** to close the dialog box.

In firmware older than revision A.03.3x, the HDD revision is not displayed at the Product Information dialog box.

The HDD revision of E5052B can be checked using **Windows Start Menu** > **My Computer** > **C:** drive label. For example, the HDD version of the E5052B in the figure below is NM320. For more information, refer to HDD Revision History.



Locking the Front Keys, Keyboard, and/or Mouse (Touch Screen)

You can lock (disable) the front keys, keyboard, and/or mouse (touch screen). This feature prevents erroneous operation caused by inadvertently touching any of these devices.

Locking the Front Keys, Keyboard, and/or Mouse

1. Press **System** > **Misc Setup** > **Key Lock**.
2. Click the corresponding key to switch the lock **ON/OFF**.

Softkey	Function
Front Panel & Keyboard Lock	Switches the lock for the front panel keys and keyboard ON/OFF .
Touch Screen & Mouse Lock	Switches the lock for the touch screen and mouse ON/OFF .

NOTE

You cannot use a locked device to unlock that same device. To unlock the front panel keys, keyboard, touch screen and mouse that have been locked, press the Standby switch to turn off the power supply and then turn it on again. When setting at power-on, the front panel keys, keyboard, touch screen and mouse are all in an unlocked condition.

Other topics about Setting Control Functions

Setting the Beeper (Built-in Speaker)

- Setting the Operation Complete Beeper
- Setting the Warning Beeper

Other topics about Setting Control Functions

The E5052B has a built-in speaker that sounds a beep tone. The beeper allows you to make two types of settings.

Type	Function
Operation complete beeper	<p>Sounds a beep tone to inform the user that operations have completed.</p> <ul style="list-style-type: none"> • When calibration data measurements are done • When data storage has completed
Warning beeper	<p>Sounds a beep tone to prompt the user to use caution.</p> <ul style="list-style-type: none"> • When an instrument error occurs (An error message appears at the same time.) • When a limit test fails

The warning beeper sounds slightly longer than the operation complete beeper.

Setting the Operation Complete Beeper

1. Press **System** key.
2. Click **Misc Setup > Beeper > Beep Complete** to switch the operation complete beeper **ON/OFF**.
3. Clicking **Test Beep Complete** allows you to hear and check the beep tone of the operation complete beeper.

Setting the Warning Beeper

1. Press **System** key.
2. Click **Misc Setup > Beeper > Beep Warning** to switch the warning beeper **ON/OFF**.
3. Clicking **Test Beep Warning** allows you to hear and check the beep tone of the warning beeper.

Setting the preset function

- Setting the User Preset Function
- Saving a User Preset instrument state

Other topics about Setting Control Functions

Setting the User Preset Function

You can save the instrument state of the E5052B into a file in the mass storage, and then recall it with the preset function to reproduce that state.

If no user preset instrument state is stored, you cannot set the user preset function.

1. Press **Preset** key.
2. Use one of the following keys for the desired setting:

Softkey	Function
Factory	Specifies the normal preset function.
User	Specifies the user-preset function.
Cancel	Returns to the softkey display in one upper level.

Saving a User Preset instrument state

To execute the user-preset function, you must have a preset setting file that has been saved with the state at **AutoRec**.

When **AutoRec** is not stored, the softkey of "User Preset" is not activated (Gray-out). For more details on saving procedure refer to File Saving and Loading Instrument Status Settings.

Turning off the LCD Screen Backlight

You can switch off the backlight (illumination) of the LCD screen of the E5052B. This extends the life of the backlight when using it continuously over a long period.

Turning off the LCD Screen Backlight

1. Press **System** key.
2. Press **Backlight** to switch the backlight **ON/OFF**.
3. Switching off the backlight causes indications on the LCD screen to be almost invisible.
4. The backlight that has been switched off can be turned on again by pressing **Preset**. When the LCD backlight is off, **Preset** works as a key for switching the backlight back on.

Other topics about Setting Control Functions