

## Using Windows

### Using Windows

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## Windows Consideration

- Using USB
- Plug & Play Stability and Security
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- Single and Double Click option
- Printing

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### Using USB

The E5061B has six USB ports for connecting devices: two in the front panel and four on the rear panel. The main advantages of USB are instant connect and disconnect, and faster data transfer speed. Electronic Calibration modules are now available with USB connections.

The first time you plug a device into a USB port there is some wait time. Windows reports that it is identifying the hardware, then searching for the correct driver, then installing the driver (if it is found).

Connecting that same device back into that same port later is quick and easy, but if you move the device to a different USB port, you will have to wait through the hardware ID and driver search again.

**NOTE** Certain USB devices (such as ECAL modules) require you to be logged on with Administrator's privileges, the first time you plug them into the E5061B. This must be done for each serial number. Click **Next** to choose the default settings when installing new USB devices.

**NOTE** Some USB memory may not operate on the E5061B. In that case, try the other kind of USB memory. There is some USB memories which do not work on the front panel USB port, but work on the rear panel USB port.

**NOTE** Agilent Technologies shall not be responsible for, nor assume any liability for data loss in your USB memory device after using it with the E5061B.

### Plug & Play Stability and Security

Plug & Play capabilities provide both a stable and secured operating environment. You may also notice that it greatly reduces the number of required reboots.

### LAN Connections

Windows supports DHCP and fixed IP addressing. Also, instant connect and disconnect of the LAN cable, as well as a visual indicator of LAN status in system tray area, makes LAN connections more intuitive. In addition, the Hardware Wizard helps users with system hardware configuration.

### **Single and Double Click option**

By default, Windows allows a double-click method of launching icons. To revert to single-clicking, see the Windows help.

### **Printing**

Adding a printer should be done as Windows operation. See Connecting Printer.

## Windows License

There are differences in Windows display for firmware A.02.0x and above compared to previous revisions. The differences in Windows display is due to the Windows licenses used with the firmware.

E5061B Option 3L5 with firmware revision A.02.0x and above as well as E5061B (all others options except Option 3L5):

- Labelled as Windows XP Pro for Embedded Systems (at rear panel)
- The Windows taskbar is no longer shown at the bottom of the screen.
- The Windows resizing buttons no longer appear at the upper-right of the Windows titlebar. It is replaced with E5061B resize button at the upper-right of the channel titlebar, as shown in the following figure:



E5061B Option 3L5 with firmware older than revision A.02.0x (for example, A.01.1x):

- Labelled as Windows Vista Business (at rear panel)
- The Windows task bar is shown at the bottom of the screen.

- The Windows resizing buttons are shown at the upper-right of the Windows titlebar. There is no E5061B resize button at the upper-right of the channel titlebar.

However, if you had the earlier firmware version and have upgraded to revision A.02.0x:

- The Windows taskbar is still shown at the bottom of the screen.
- However, the Windows resizing buttons no longer appear at the upper-right of the Windows titlebar. It is replaced with E5061B resize button at the upper-right of the channel titlebar.

## Change Date/Time Settings

The E5061B has the built-in clock that keeps track of the date and time. This clock is used for the following functions.

- To display the current date and time in the instrument status bar at the lower part of the screen
- To write date and time information when saving internal data or a VBA program

**NOTE**

The **Date & Time** of E5061B clock can be changed by double-clicking the clock at the bottom right of the taskbar.

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## User Account and Password

- To Change Password
- To Add New User

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### To Change Password

At the factory default setting, the account name is **Instrument**, the password is **measure4u**, and Auto Log On is activated. Once you change the password, Auto Log On is not available.

1. Open **User Accounts** in Control Panel.
2. Click **Change an account**.
3. Select the icon of your account name.
4. Click **Change the password**.
5. Enter **new password**, **new password again to confirm**, and **password hint**.
6. Click **Change Password** button.

**NOTE**

When the password of the account being logged in is changed, the above procedure is little different.

### To require users to press CTRL+ALT+DELETE before logging on

For added security, you can require users to press CTRL+ALT+DELETE before logging on.

1. Open **User Accounts** in Control Panel.
2. Click **Change the way users log on or off**.
3. Check the **Use the Welcome screen** checkbox.
4. Click **Apply Options**.
5. Log off Windows.

**NOTE**

The E5061B must be removed from the domain for the procedure to work. When shipped, the E5061B is configured as a member of a workgroup. If the configuration of the E5061B is later changed so as to be a member of domain, then name/password must always be entered at startup. This is a security requirement of Windows.

**NOTE**

If the E5061B is assigned to a domain, then **Change the way users log on or off** is not available in **User Accounts** dialogue box.

### To Add New User

The login accounts must be as the computer administrator if you make measurements.

1. Open **User Accounts** in Control Panel.
2. Click **Create a new account**.
3. Enter the new account name, then click **Next**.
4. Select **Computer Administrator**.
5. Click **Create Account** button.
6. Select the icon of your account name.
7. Click **Change password**.
8. Enter **new password**, **new password again to confirm**, and **password hint**.
9. Click **Change Password** button.

**NOTE**

The administrator authority is necessary for some of function in E5061B. Select computer administrator when you make the user account.



## On-Screen Keyboard

- On-Screen Keyboard overview
- To open Windows On-Screen Keyboard

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### On-Screen Keyboard overview

On-Screen Keyboard is a utility provided by Windows that displays a virtual keyboard on the screen. It allows the users of the E5061B to input characters without the need of a keyboard.

#### NOTE

The E5061B does not requires an external keyboard for its operation. Users can input characters using an on-screen keyboard in-built with the E5061B firmware.

### *On-screen keyboard in-built with the E5061B firmware*



### To open Windows On-Screen Keyboard

To open On-Screen Keyboard: click **Start > All Programs > Accessories > Accessibility > On-Screen Keyboard**.

### *On-screen keyboard provided by windows OS*



## Configuring Network

### NOTE

When you use the E5061B by connecting it to your LAN, consult your network administrator and make the setting of the LAN correctly.

This section describes how to set the following basic items necessary to connect the E5061B to the LAN (Local Area Network).

- Enabling/Disabling network
- Check/Reset IP Address
- Setting IP address
- Checking computer name

If you need detail network settings, consult your network administrator and perform operation in the same way as the Windows PC.

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## Enabling/Disabling Network

You can enable/disable the network connection function of the E5061B.

### To enable/disable the network connection function

1. Use the LAN cable to connect the E5061B to the LAN.
2. Press **System** > **Misc Setup** > **Network Setup** > **Network Configuration** to open **Network Connections** window.
3. Perform either of the following:
  - When switching from disable to enable:  
Double-click the Local Area Connection icon in the **Network Connections** window to enable the network connection function.
  - When switching from enable to disable:  
Double-click the Local Area Connection icon in the **Network Connections** window. The **Local Area Connection Status** screen appears. Click the **Disable** button to disable the network connection function.
4. Close **Network Connections** window.

## Check/Reset IP Address

The IP address of the E5061B can be checked/reset by **System** > **Misc Setup** > **Network Setup** > **LAN Dialog**.

## Setting IP address

Follow these steps to set the IP address:

1. Press **System** > **Misc Setup** > **Network Setup** > **Network Configuration**.
2. Double-click the Local Area Connection icon in the **Network Connections** window. The **Local Area Connection Status** screen appears.
3. Click **Properties**. The **Local Area Connection Properties** screen appears.
4. Select (highlight) **Internet Protocol (TCP/IP)**, and then click **Properties**.
5. The **Internet Protocol (TCP/IP) Properties** appears. Click (select) **Use the following IP address** and then enter the **IP address**, **subnet mask** and **gateway address**.
6. If the IP address can be obtained automatically (if the DHCP server can be used), click (select) **Obtain an IP address automatically**.
7. In **Internet Protocol (TCP/IP) Properties**, click **OK**.
8. In **Local Area Connection Properties**, click **OK**.
9. In **Local Area Connection Status**, click **Close**.
10. Close **Network Connections** window.

### Checking Computer Name

Follow these steps to check the computer name:

1. Press **System** > **Misc Setup** > **Network Setup** > **Network Identification**.
2. See the desired computer name in Computer description in **Computer Name** tab.

## Accessing Hard Disk of E5061B from External PC

If you connect the E5061B to LAN, you can access the hard disk (D drive) in the E5061B as a network drive from an external PC connected to the same LAN.

- Enabling the access from an external PC
- Accessing hard disk of E5061B from external PC
- E5061B Hard Disk Drive

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### Enabling the access from an external PC

This section shows the procedure to enable the access from the external PC.

1. Press **Save/Recall** > **Explorer** which opens the explorer.
2. Select (highlight) **USER (D:)** and then click **Properties** in the File menu. The USERS(D:) Properties dialog box appears.
3. Select the **Sharing** tab.
4. Click **New Share**. The New Share dialog box appears.
5. Enter the share name (name used when accessed from the external PC) in the **Share Name** box and click **OK**.
6. In the USERS(D:) Properties dialog box, click the **OK** button.

### Accessing hard disk of E5061B from external PC

This section describes the procedure to connect to the hard disk (D drive) in the E5061B to which access has been made possible according to the procedure described in Enabling the access from the external PC from the external PC, taking Windows as an example.

#### NOTE

For information on connection, see your PC's operation manual.

1. Right-click the start menu, then select **Explorer** to start the explorer.
2. From the Explorer's menu, click **Tools** > **Map Network Drive..** The Map Network Drive dialog box appears.
3. Select an appropriate drive, enter **\\C\_NAME\\S\_NAME** as the network path and then click the **OK** button.
4. The dialog box to enter the user name and the password appears. Enter an appropriate user name and password and then click the **OK** button.

**NOTE** **C\_NAME** in the network path is the computer name of the E5061B and **S\_NAME** is the share name of the D drive.

**NOTE** The user name and password differ depending on the setting made when enabling access from the external PC. When you have set them according to Enabling the access from an external PC you can make connection using the user name, instrument, without the password.

### E5061B Hard Disk Drive

The E5061B Hard disk contains several memory partitions. The following table explains the different partitions of the E5061B.

Drive	Description
ELxxx or KYxxx (C:)	The system drive is replaced with the original image when system recovery is executed.
USER (D:)	User can keep their files, in this drive. This drive is not replaced even when system recovery is executed.
Factory (E:)	This drive contains license information and back up data for syscal. Also, user can keep their files, in this drive. The drive is not replaced even when system recovery is executed.

## Windows Firewall

- To turn Windows Firewall on or off
- To Unblock the Remote I/O server

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#### To turn Windows Firewall on or off

1. Open Windows Firewall. To open Windows Firewall, open Control Panel, and then double-click **Windows Firewall**.
2. On the **General** tab, click one of the following:
  - **ON (recommended)**. This is the setting that you should normally use.
  - **OFF (not recommended)**. Turning OFF Windows Firewall might make your computer (and your network, if you have one) more vulnerable to damage from viruses.

#### To Unblock the Remote I/O server

To use SICL-LAN, the Agilent Remote I/O Server and Agilent Remote I/O Port Mapper Utility must be unblocked. To use telnet and socket servers, the E5061 Network Analyzer must be unblock.

**NOTE** At the firmware revision A.02.00 and above, the following settings are unblocked at the default.

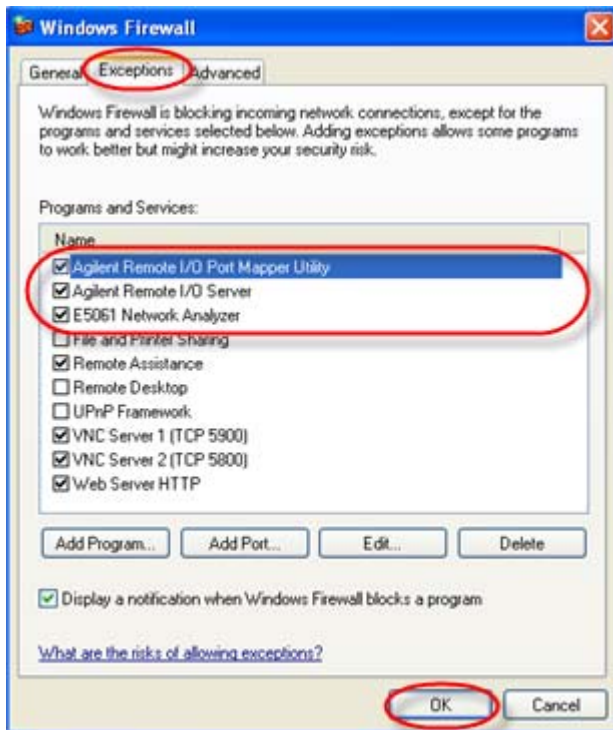
To use SICL-LAN:

1. Check the **Agilent Remote I/O Server** and **Agilent Remote I/O Port Mapper Utility** on the **Exceptions** tab in Windows Firewall.
2. Click the **OK** button to apply the setting of exceptions.

To use telnet and socket servers:

1. Check the **E5061 Network Analyzer** on the **Exceptions** tab in Windows Firewall.
2. Click the **OK** button to apply the setting of exceptions.

***Exceptions tab in Windows Firewall window***



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**NOTE**

**Agilent Remote I/O Server, Agilent Remote I/O Port Mapper Utility, and E5061 Network Analyzer** are not on the list above at the factory shipment setting (They are blocked). They appear after **System > Misc Setup > Network Setup > Telnet Server [ON]** and **SICL-LAN Server [ON]** are clicked.

## Connecting External Accessories

The E5061B can be connected to external input/output devices such as printer, monitor, keyboard and mouse.

- Connecting a Printer
- Connecting a Mouse/Keyboard
- Connecting a Monitor

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### Connecting a Printer

A printer can be connected to the E5061B through any USB ports on the front or rear panels. Its driver may be required to install.

### Connecting a Mouse/Keyboard

A USB mouse and USB keyboard can be connected to the E5061B through any USB ports on the front or rear panels.

### Connecting a Monitor

A monitor can be connected to the E5061B using the External Monitor Output Terminal (Video) located in the rear panel of the E5061B.

**NOTE**

An external monitor needs to be connected to the analyzer and turned ON before the analyzer is turned ON so that the analyzer recognizes the monitor properly.