USER MANUAL

USB Server

☐ **Model No: LB3-G(4Port USB Server)**

☐ **Model No: LB4-G(1Port USB Server)**

2010@v1.0

Foreword

Congratulations on your purchase of our product! Before using The product, please read this manual carefully for further recognizing of the product.

I. Feature

Centralized remote EST USB Server Management
Centralized remote EST USB Server Status Monitoring
Centralized remote USB Device Management
Centralized remote USB Device Status Monitoring
Available for any USB device via the USB Server
Available for 4 type different USB device
Any USB device connected via USB Server utility should work as if they are plugged into the connecting PC via USB port.
Hardware requirement: a local network, PC with Win/XP/Vista/7

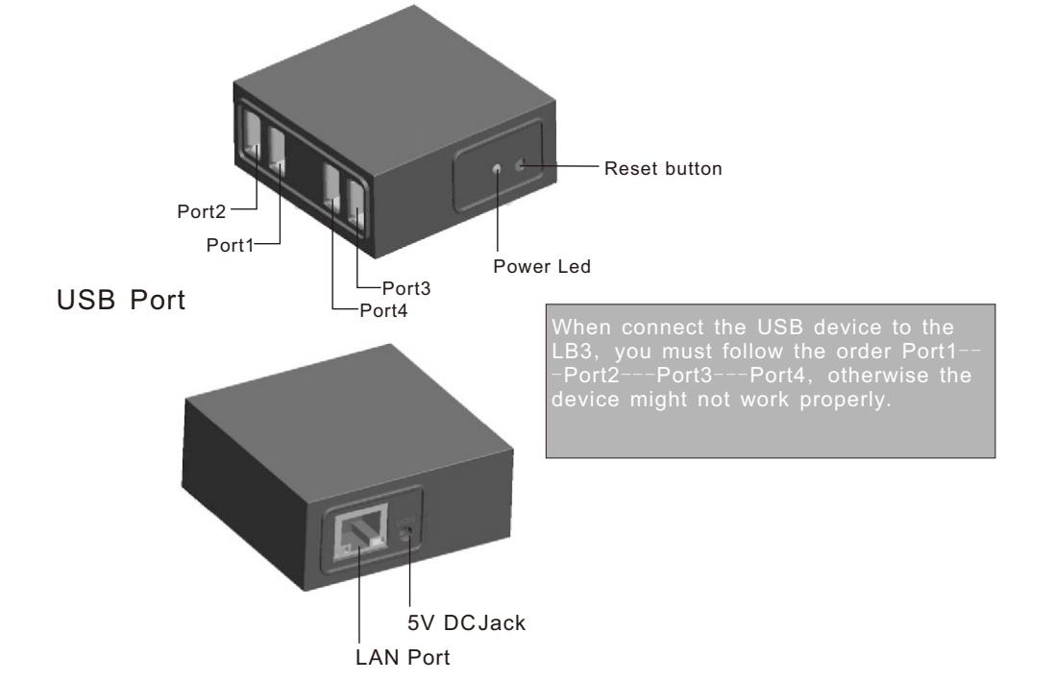
III. Package Content

Check fittings
Before using the product, please check the fittings in the package compliant with the below. If not, please contact the local dealers timely.

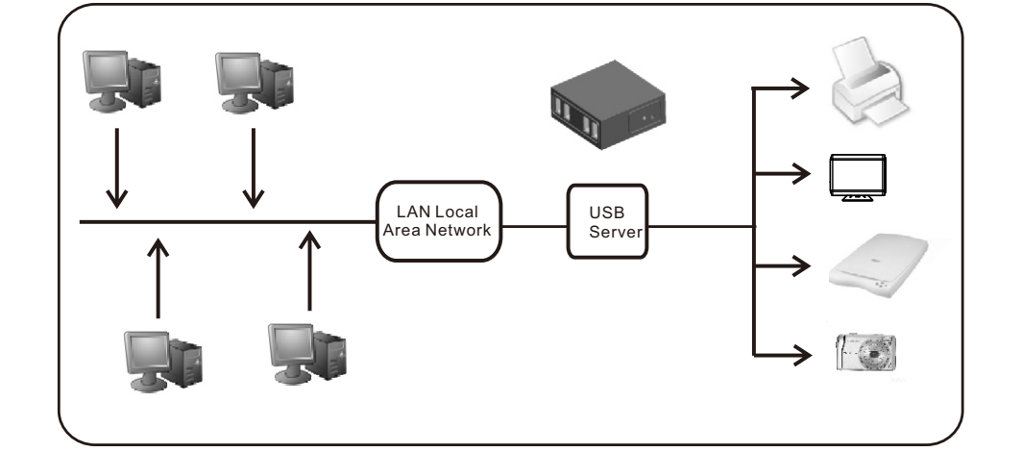
one USB Server
one User's Manual
one 5V Adapter
one Lan cable

IV. Hardware Installation

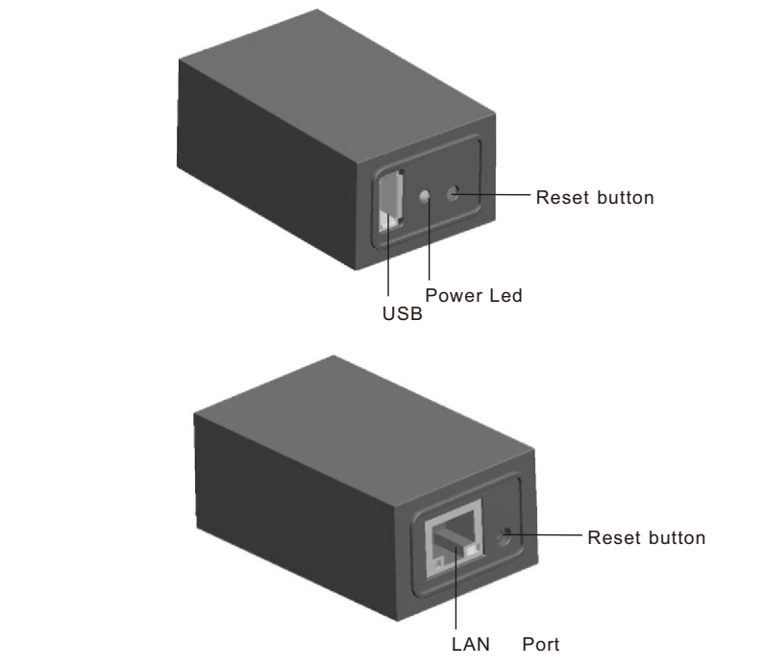
LB3-G 4Port USB Server:

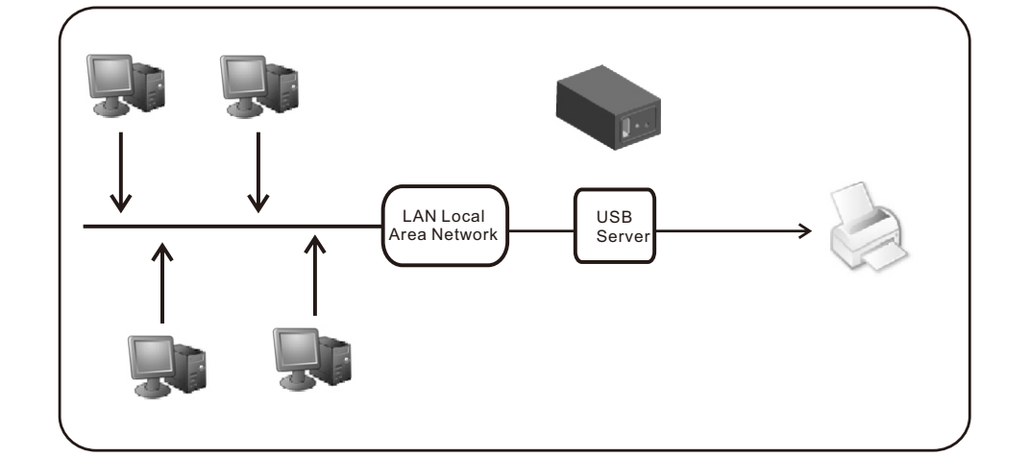

Reset button
Port2
Port1
Power Led
Port3
Port4
USB Port
5V DCJack
LAN Port

When connect the USB device to the LB3, you must follow the order Port1---Port2---Port3---Port4, otherwise the device might not work properly.


LAN Local Area Network
USB Server

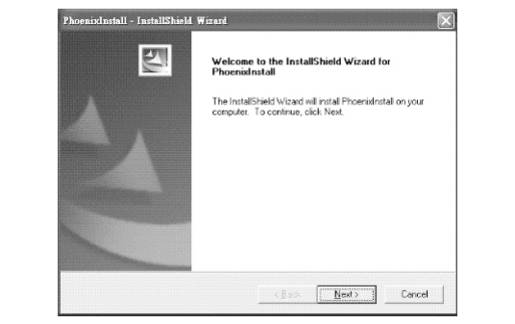
LB4-G 1Port USB Server:


Reset button
Power Led
USB
Reset button
LAN Port


LAN Local Area Network
USB Server

V. Installation

To install the USB Server program, please double click the USB Server setup file.


PhoenixInstall - InstallShield Wizard
Welcome to the InstallShield Wizard for PhoenixInstall
The InstallShield Wizard will install PhoenixInstall on your computer. To continue, click Next.
< Back
Next >
Cancel

Then please follow the instructions of the wizard to complete the installation process.

Please reboot the system as requested by the installer when the process ends, otherwise the software might not work properly.

Running Program

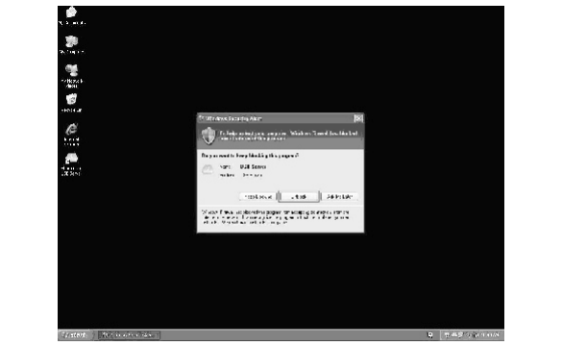
To start the USB Server program, please double click the shortcut icon of the USB Server on the Desktop.

This would bring up the main dialog as shown below.

System Firewall

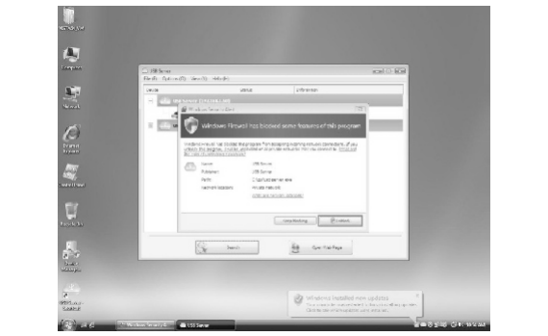
When you start the program for the time, your Windows OS will prompt you for Firewall Access. Please make sure you unblock the software or grant it access, otherwise the program will not work correctly.

Windows XP Firewall Access Alert



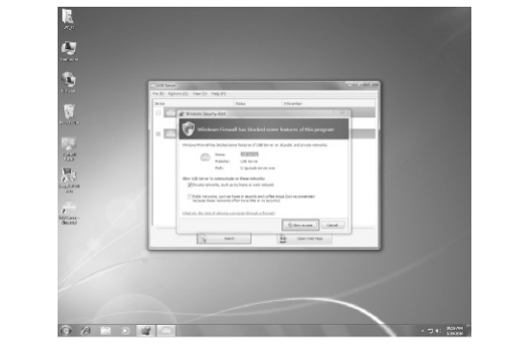
Please make sure you Unblock the program.

Windows Vista Firewall Alert



If your system is running Windows Vista, please make sure you Unblock the program.

Windows 7 Firewall Alert

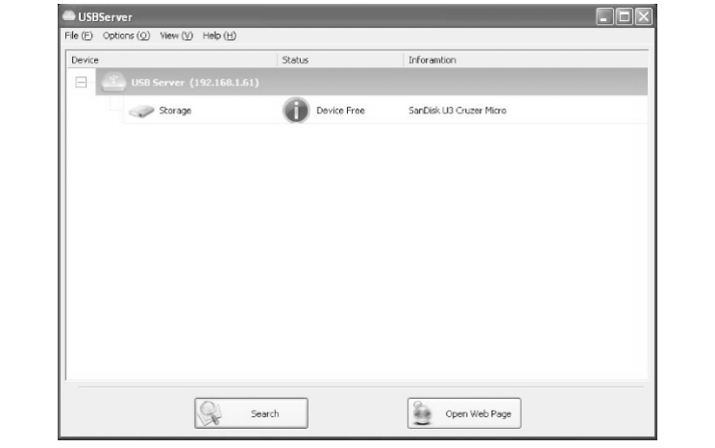


If your system is running Windows 7, please make sure you click on Allow access when you see this alert.

Once you have done this once, the system will remember your setting and will not prompt you again next time you run the software.

Main Dialog Box

Once you have start up the program and grant it access through the firewall, you will see this main dialog box.


USBServer
File (F) Options (O) View (V) Help (H)
Device
Status
Inforamtion
USB Server (192.168.1.61)
Storage
Device Free
SanDisk U3 Cruzer Micro
Search
Open Web Page

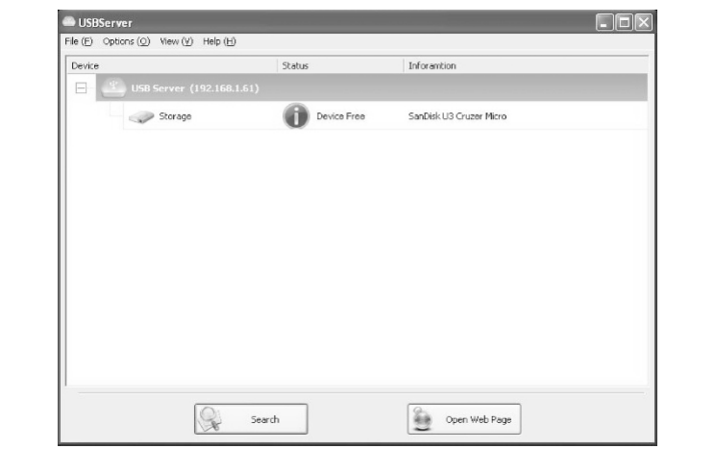
The main dialog box is consisted of a **Control Menu** (File, Options, View and Help), a tree view in the middle that displays a list of all the server and devices discovered on the network, a **Search** button to get the current status of all USB Servers and devices, and a button that toggles between **Open Web Page** and **Connect Device** depending on the node you select on the tree view. The **Open Web Page** button toggles to **Connect** Device when a device is highlighted.

Status of EST USB Servers and Devices

The tree view also tells you the status of all the EST USB Servers and devices that are discovered on the network. An inaccessible USB Servers might or might now show up on the list. It is either disconnected from the network, powered off or suffering from other technical difficulties.

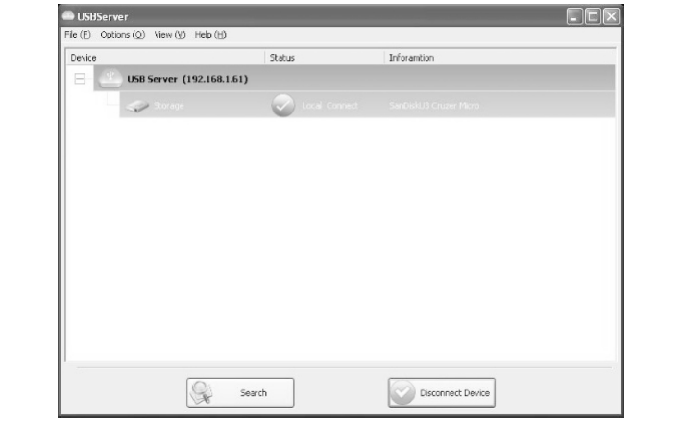
The device might be in one of the following states and there are different things you can do with it in each of the states. Each status is represented by a specific icon.

Device Free


USBServer
File (F) Options (O) View (V) Help (H)
Device
Status
Inforamtion
USB Server (192.168.1.61)
Storage
Device Free
SanDisk U3 Cruzer Micro
Search
Open Web Page

A device with **Device Free** status is unoccupied and ready to be connected.

Occupied by Yourself


USBServer
File (F) Options (O) View (V) Help (H)
Device
Status
Inforamtion
USB Server (192.168.1.61)
Search
Disconnect Device

When you are **Connected** to a device, the green icon turns into an orange icon to signify the establishment of the connection.

Occupied By Other User

This status icon indicates the device is occupied by another user on your network and you can not connect to that device at the moment.

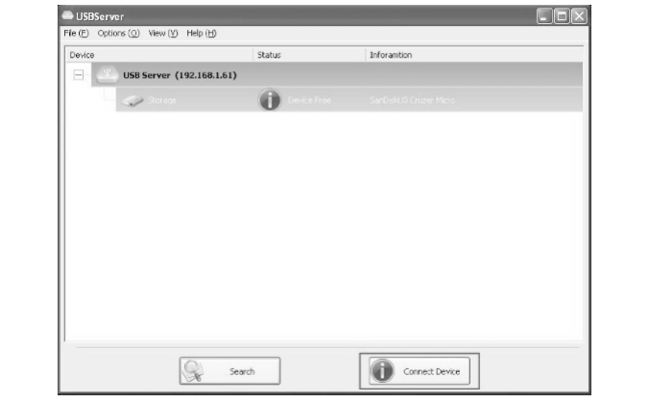
Device on Different Segment

This icon with question mark indicates that the server's IP address is on a different network segment from your PC. You can NOT connect to a device attached to such server. Please check your network settings. However you can still change its network settings.

Unsupported Device

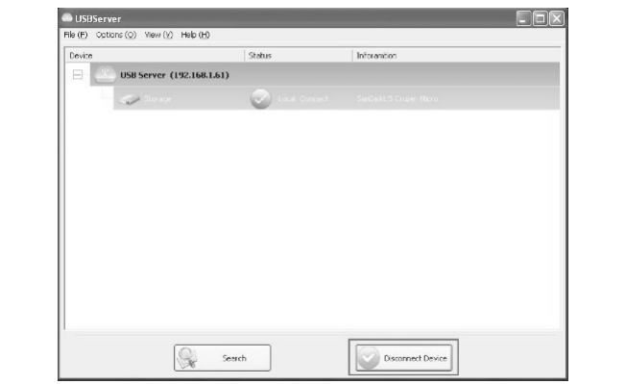
Some of the devices are not supported by EST USB server. Such device will be identified by a stop sign icon as shown. Of course, connecting to an unsupported device is not allowed.

Accessing a Device


USBServer
File (F) Options (O) View (V) Help (H)
Device
Status
Inforamtion
USB Server (192.168.1.61)
Search
Connect Device

To connect to a USB device, please select it on the tree view and click on **Connect Device** button or double-click on it. This process might take a few seconds up to a minute, depending on the complexity of the device. **Then you can operate a connected USB device as if it is connected to your PC's USB port directly**.

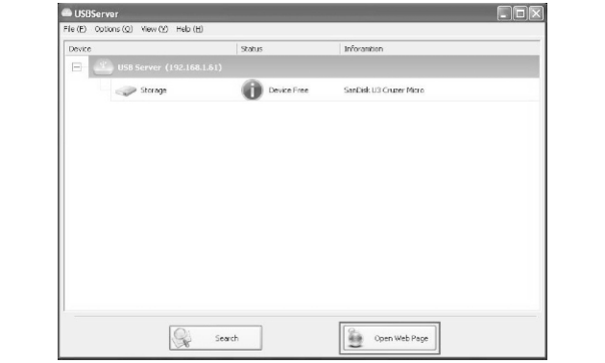
If you select a connected device on the UI, you can see that the **Connect** Device button is changed to **Disconnect** Device:


USBServer
USB Server (192.168.1.61)
Search
Disconnect Device

Clicking on this button releases the selected device for other users. Once you see the icon turns back, the device has been disconnected and other users will then be able to connect to it.

This operation is exactly like when you unplug a USB device from your PC's USB port.

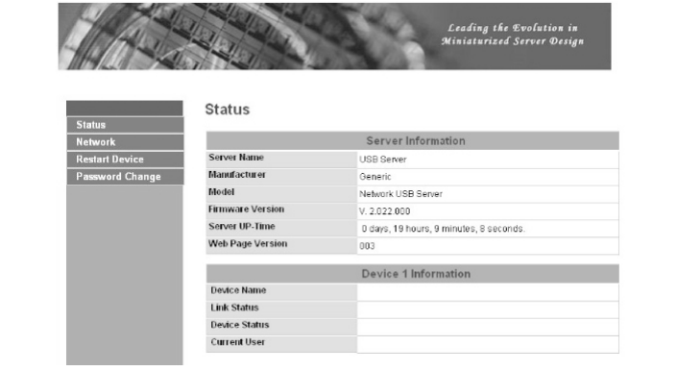
Server Configuration


USBServer
USB Server (192.168.1.61)
Storage
Device Free
SanDisk U3 Cruzer Micro
Search
Open Web Page

We allow the users to configure the settings of the EST USB Servers via the web-based UI. Select the target server on the tree view and then click on the **Open Web Page** button or the same option on the right-click menu of server icon, to bring up the web-based configuration UI.

Configuration with Web-based UI

Your default web browser will pop up and take you into the web-based configuration UI of the server.


Leading the Evolution in Miniaturized Server Design
Status
Network
Restart Device
Password Change

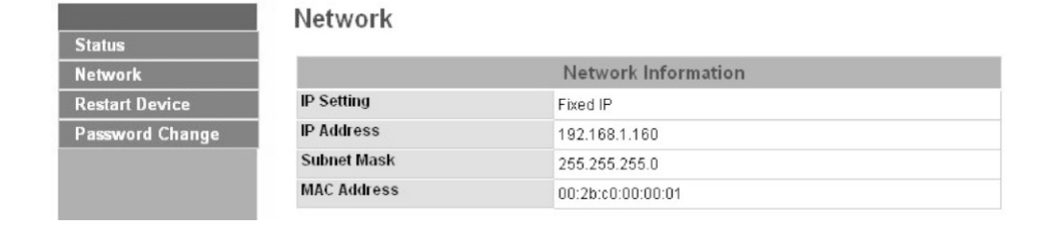
Status

Server Information	
Server Name	USB Server
Manufacturer	Generic
Model	Network USB Server
Firmware Version	V. 2.022.000
Server UP-Time	0 days, 19 hours, 9 minutes, 8 seconds.
Web Page Version	003

Device 1 Information	
Device Name	
Link Status	
Device Status	
Current User	

This is the main page of the configuration UI. You can see the important information about the EST USB Server and the device(s) connected to it. The 4 links at the left-hand side each represents a function. Clicking on "Device Status" brings you back to this page, and the 3 other links take you to pages with different functions.

Network Information


Status
Network
Restart Device
Password Change

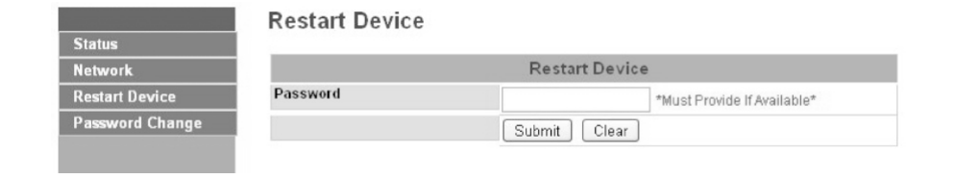
Network

Network Information	
IP Setting	Fixed IP
IP Address	192.168.1.160
Subnet Mask	255.255.255.0
MAC Address	00:2b:c0:00:00:01

This page displays the current network setting of the server

Server Reset

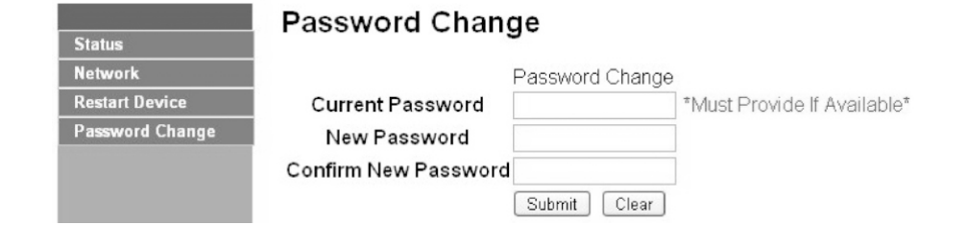
Clicking on this link takes you the page show below:


Status
Network
Restart Device
Password Change
Restart Device
Restart Device
Password
Must Provide If Available
Submit
Clear

With the Reset Server button you can reboot the server. However, if there is a password, you must enter it for this function to work. Password is by default blank. So, unless a password is explicitly set, you do not have to enter anything for the reset function to work.

Change Password

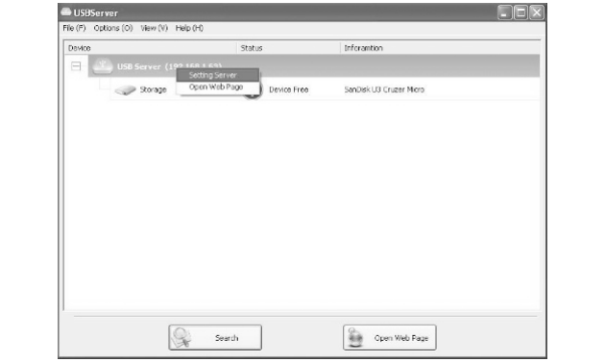
Clicking on this link takes you to the password update page below:

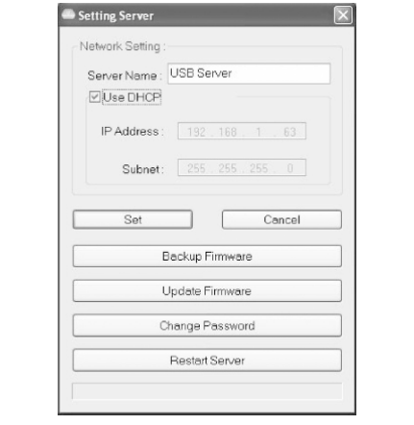

Status
Network
Restart Device
Password Change
Password Change
Password Change
Current Password
Must Provide If Available
New Password
Confirm New Password
Submit
Clear

To change the password, you must enter current password, input new password and re-input new password for confirmation and then click on Submit. If you are setting the password for the first time, you don't have to provide current password.

Configuration with the Utility

Another way to configure the server is via the configuration dialog of USB Server. To bring up the configuration dialog, please RIGHT-CLICK on the server icon to bring up this menu, and select **Setting Server**


USBServer
Setting Server
Open Web Page
Storage
Device Free
SanDisk U3 Cruzer Micro
Search
Open Web Page


Setting Server
Network Setting
Set
Cancel
Backup Firmware
Update Firmware
Change Password
Restart Server

Server Name: USB Server
☑ Use DHCP
IP Address: 192 . 168 . 1 . 63
Subnet: 255 . 255 . 255 . 0

You might be prompted to enter password if a password has been set. If not, you will immediately see the above dialog.

Sever Name: This field allows you change the Server name. Change it whatever you want.

USE DHCP: When this field is checked, your server acquires IP address automatically. Uncheck it and you can enter IP address automatically.

NOTE: You can apply this function to a server under different network segment. HOWEVER, some router/switch hub does not allow communication between servers under different segment. In this case, you won't even see the server on a different network segment.

Backup Firmware: this function is a fail-save mechanism for the Update Firmware function. Just browse to where you want to save the backup file and click on **Save** to save the file.

Update Firmware: update firmware with this function. Use the **Browse** button to choose the firmware to update. Click on **Open** to start.

Change Password: Simply enter the new password and enter it again for confirmation. Click on **Submit** to change.

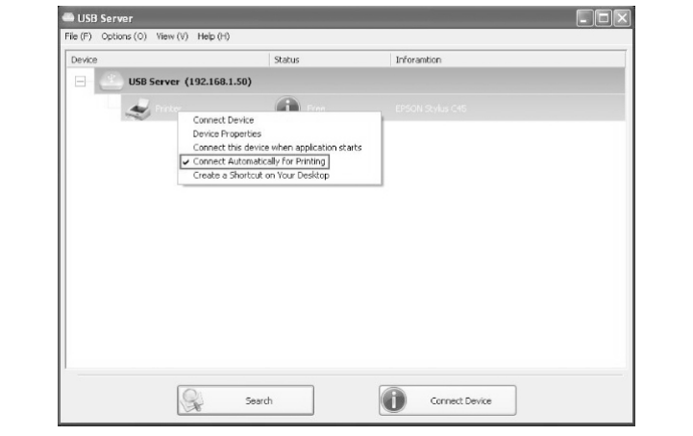
Reset Server

This button reboots the server. Please note that this function will not work if the server you attempt to reset has a device connected to it and the device is occupied by a user.

Featured Functions

Connect Automatically for Printing

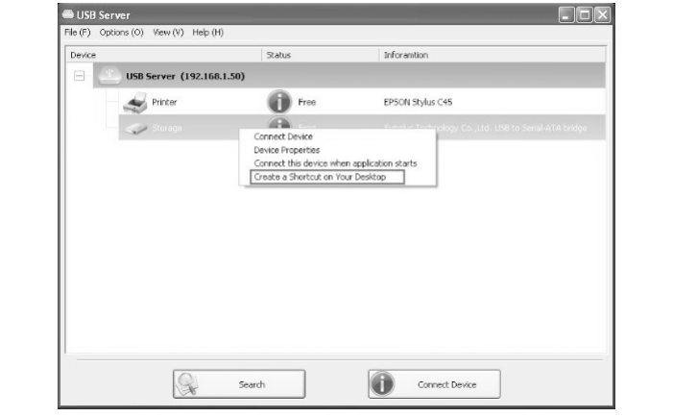
This is another one of our very convenient functions.


USB Server
File (F) Options (O) View (V) Help (H)
USB Server (192.168.1.50)
Connect Device
Device Properties
Connect this device when application starts
✓ Connect Automatically for Printing
Create a Shortcut on Your Desktop
Search
Connect Device

What this function does it that when you send a printing task to this printer, it detects this printing task and AUTOMATICALLY connect this printer to print out the document. When the printing task is done, the printer will then be AUTOMATICALLY disconnected so that other users can use it. The user no longer has to manually connect and disconnect the printer.

NOTE: This function will be enabled for printers or MFPs that has been installed and used on your PC. For a new printer/MFP, please make sure you have installed it (has been connected via USB port or via USB Server software and worked correctly) on your PC first.

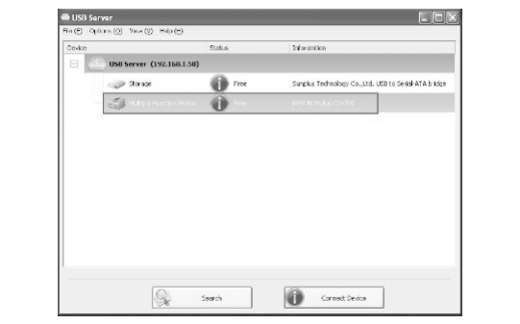
Create a Shortcut on Your Desktop


USB Server
USB Server (192.168.1.50)
Printer
Free
EPSON Stylus C45
Connect Device
Device Properties
Connect this device when application starts
Create a Shortcut on Your Desktop
Search
Connect Device

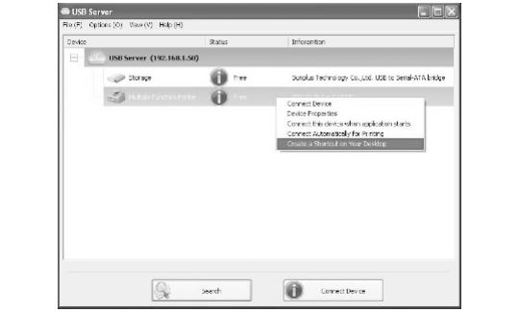
This function creates a shortcut on your Desktop that, when double clicked, starts up an application and connects a targeted device at the same time. This function is particularly useful when the functions or one of the functions of the targeted device must work with a specific application, such as a multi-function printer and the photo/picture scanning utility. Normally, if you want to scan with a scanner connected to a USB server, you must first connect the Scanner with the USB Server software, then run the scan software and start scanning. When you finish with scanning you have to close the scan software and then disconnect the scanner so that other user can use it.

However, this shortcut function consolidates these steps into two quick double-click. Let's see a sample use case.

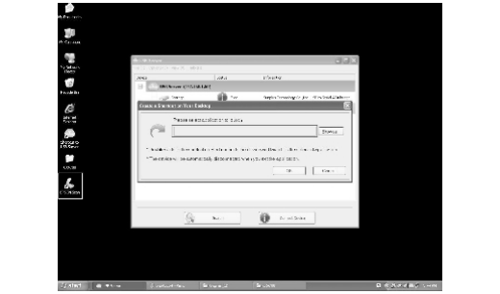
Take this EPSON MFP as an example.



Right click on it and select the Create a Shortcut on Your Desktop option.

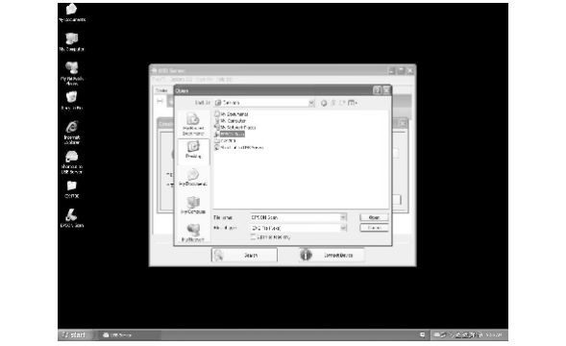


Then you will see this setup dialog pops up.

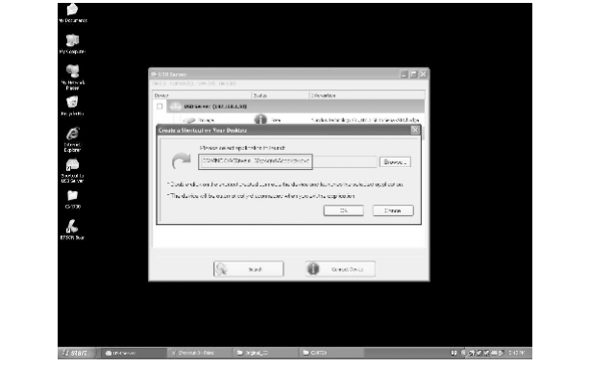


So, this EPSON MFP comes with a scanning application called EPSON Scan. You can see a shortcut of this EPSON Scan software being placed on your Desktop. Now you can either Drag-and-Drop the EPSON Scan shortcut into the highlighted text filed.

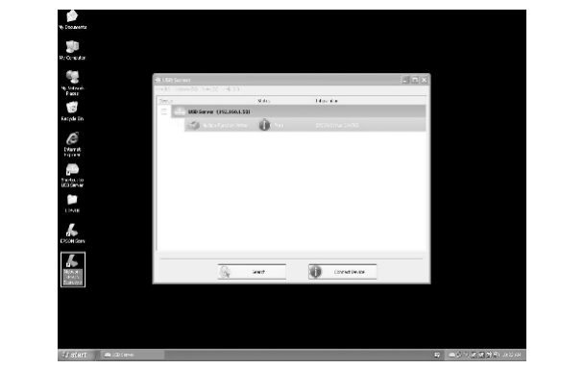
Or you can use the browse button to select the shortcut.



Either way, observe that the program path has been correctly captured and then click on the **OK** button.

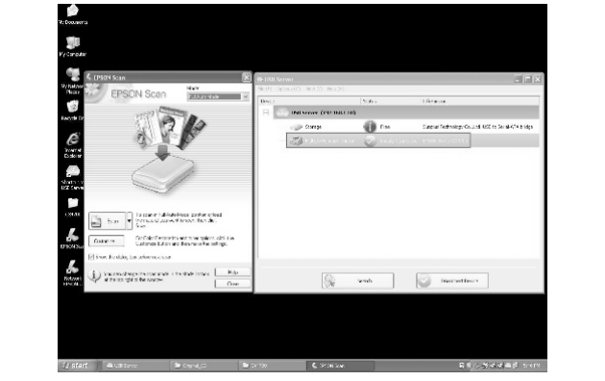


Then you will see a new shortcut being created on the Desktop.



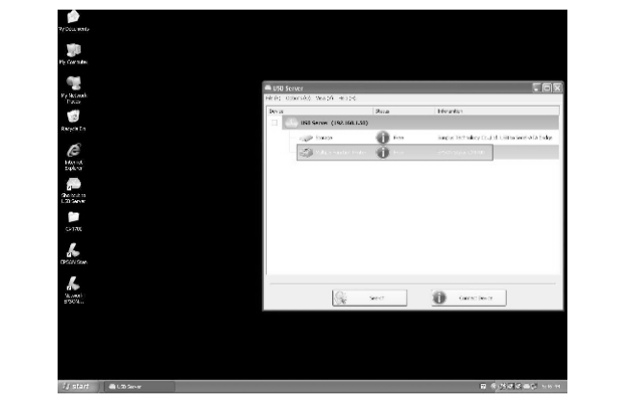
The naming rule of the new shortcut is adding a Network prefix to the name of the original shortcut.

Now, when you double click the new Network EPSON Scan shortcut, the software runs and the EPSON MFP gets connected at the same time.



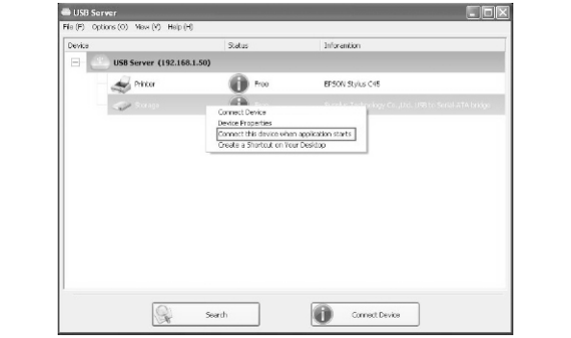
You can then start your scanning task.

When you are finished, simply close the EPSON Scan utility and the EPSON MFP will be disconnected automatically.



Now you can operate your MFP or Scanner with a shortcut on your Desktop and keep the USB Server software minimized at the system tray.

Connect this device when application starts

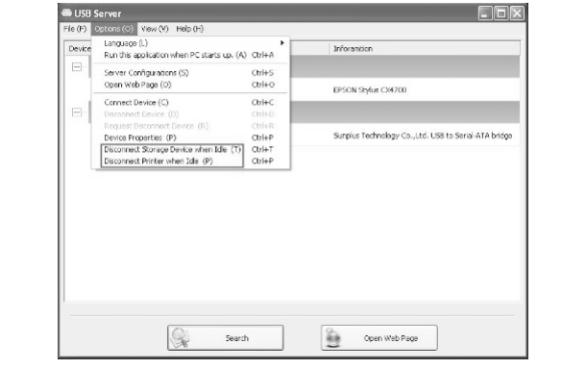

USB Server
USB Server (192.168.1.50)
Printer
Free
EPSON Stylus C45
Connect Device
Device Properties
Connect this device when application starts
Create a Shortcut on Your Desktop
Search
Connect Device

When enabled, this function automatically connects the target device 15 seconds after the application starts running. If you are using a USB hub or the server has a build-in HUB (4-port USB server has a build-in hub), the device won't be automatically connected if you switch it to another port.

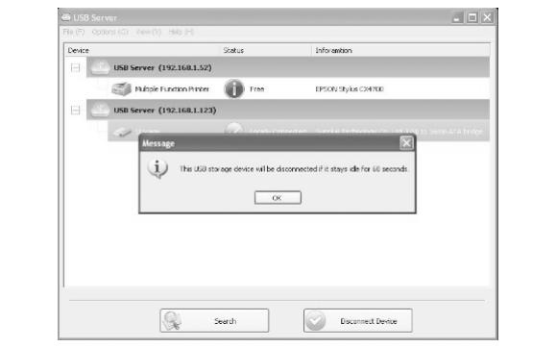
If this device is occupied when the application starts, then it will not be connected.
If this device is offline when the application starts, then the device will not be connected.

Auto Disconnect Printer/MFP/Storage Device

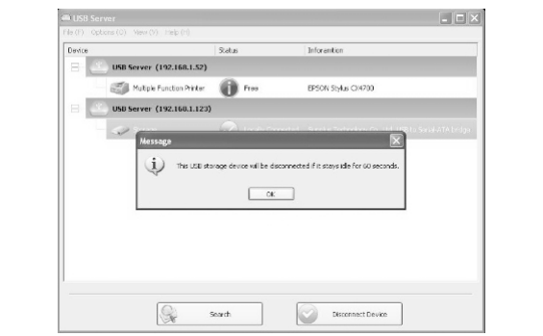
These functions are there to prevent the case when one user connected a Printer or Storage device but forget to disconnect when he/she is done with the device.


USB Server
File (F) Options (O) View (V) Help (H)
Language (L)
Run this application when PC starts up. (A) Ctrl+A
Server Configurations (S) Ctrl+S
Open Web Page (O) Ctrl+O
Connect Device (C) Ctrl+C
Device Properties (P) Ctrl+P
Disconnect Storage Device when Idle (T) Ctrl+T
Disconnect Printer when Idle (P) Ctrl+P
EPSON Stylus CX4700
Search
Open Web Page

When these two functions are enabled, you will see this message when you connect a Storage device or a printer:


USB Server
USB Server (192.168.1.52)
Multiple Function Printer
Free
EPSON Stylus CX4700
USB Server (192.168.1.123)
Message
OK
Search
Disconnect Device

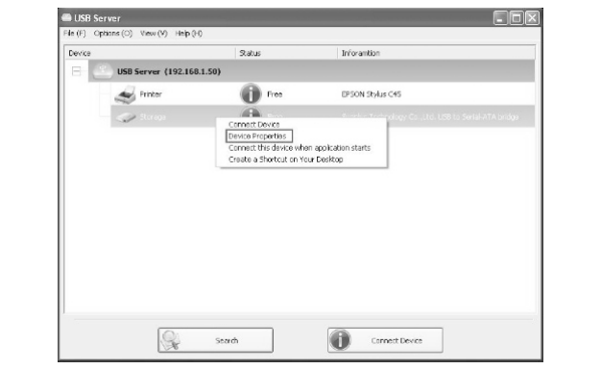
When the Idle time is up and the device has been disconnected, you get another notification:

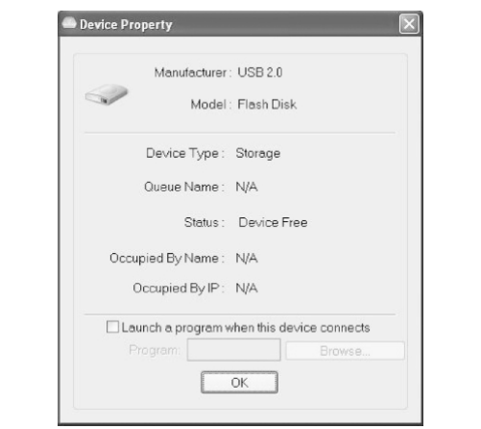

USB Server
USB Server (192.168.1.52)
Multiple Function Printer
Free
EPSON Stylus CX4700
USB Server (192.168.1.123)
Message
OK
Search
Disconnect Device

NOTE: This function might not work with Storage device such as pen driver/flash driver. These devices tend to periodically (on a millisecond base) communicate with the OS even when the user is not reading **data from it or writing data to it. So it never actually stays Idle** and will never be automatically disconnected by this function. External USB HDD type storage device does not have this problem.

Device Property

Clicking on the Device Property to bring up the **Device Property** dialog box.


USB Server
USB Server (192.168.1.50)
Printer
Free
EPSON Stylus C45
Connect Device
Device Properties
Connect this device when application starts
Create a Shortcut on Your Desktop
Search
Connect Device


Device Property
Program
Browse...
OK

Manufacturer: USB 2.0
Model: Flash Disk
Device Type: Storage
Queue Name: N/A
Status: Device Free
Occupied By Name: N/A
Occupied By IP: N/A
☐ Launch a program when this device connects

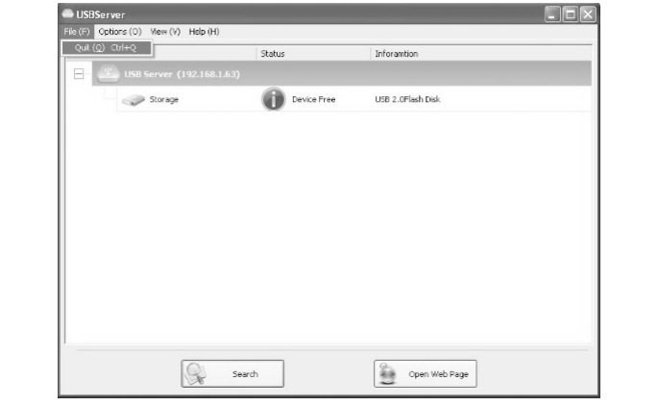
Device Property dialog box displays information of the USB device. If the device is occupied, it also displays the occupying PC name and the IP of the PC occupying it.

This dialog box provides a quite useful function. Check the Launch a program when this device connects checkbox and provide the path to that program/utility/application software, then the program/utility/application software would automatically starts up after you connect the device.

This function is particularly useful when the USB device you connect works with an application, such as scanning utility with a multiple function printer.

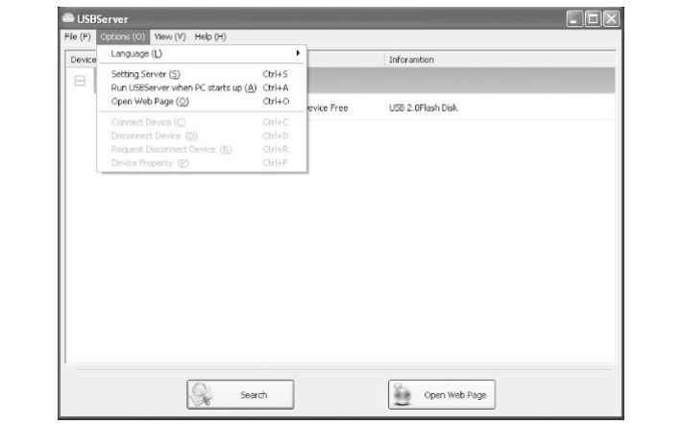
File

The **Quit** function exits the program.


USBServer
File (F) Options (O) View (V) Help (H)
Quit (Q) Ctrl+Q
Status
Inforamtion
Storage
Device Free
USB 2.0Flash Disk
Search
Open Web Page

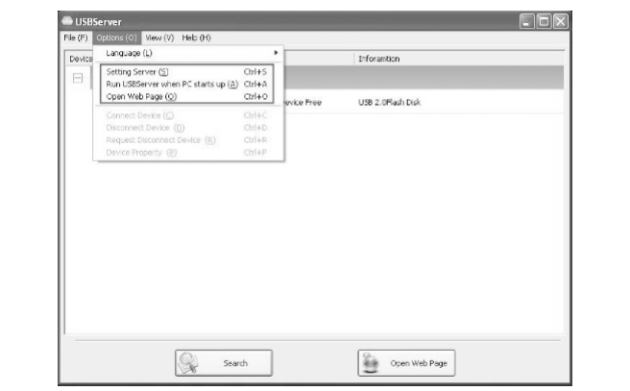
Options

Language


USBServer
File (F) Options (O) View (V) Help (H)
Language (L)
Setting Server (S) Ctrl+S
Run USBServer when PC starts up (A) Ctrl+A
Open Web Page (O) Ctrl+O
Connect Device (C) Ctrl+C
Disconnect Device (D) Ctrl+D
Request Disconnect Device (R) Ctrl+R
Device Property (P) Ctrl+P
USB 2.0Flash Disk
Search
Open Web Page

You can change the utility's language with this option. The default language would be the same as your system's language.

Server Settings

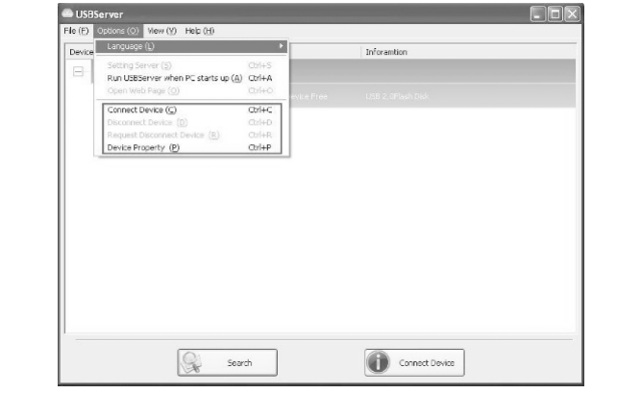

USBServer
File (F) Options (O) View (V) Help (H)
Language (L)
Setting Server (S) Ctrl+S
Run USBServer when PC starts up (A) Ctrl+A
Open Web Page (O) Ctrl+O
Connect Device (C) Ctrl+C
Disconnect Device (D) Ctrl+D
Request Disconnect Device (R) Ctrl+R
Device Property (P) Ctrl+P
USB 2.0Flash Disk
Search
Open Web Page

Setting Server: Same function as the Setting Server option on the server icon's right click menu.

Run USBServer When PC Starts Up: This utility automatically runs when your system starts up.

Open Web Page: Brings up the server's configuration web pages.

Device Settings

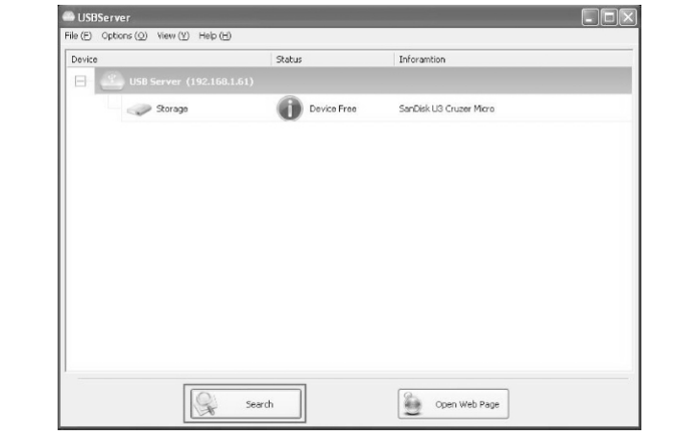

USBServer
File (F) Options (O) View (V) Help (H)
Language (L)
Setting Server (S) Ctrl+S
Run USBServer when PC starts up (A) Ctrl+A
Open Web Page (O) Ctrl+O
Connect Device (C) Ctrl+C
Disconnect Device (D) Ctrl+D
Request Disconnect Device (R) Ctrl+R
Device Property (P) Ctrl+P
Search
Connect Device

Connect Device and Disconnect Device: Connects and disconnects the selected device.

Request Disconnect Device: When you want to use a device occupied by other user, you can highlight that device and use this function. This sends a message to the occupying user with your request. The occupying user would either release the device or deny the request if s/he is still using the device.

Search

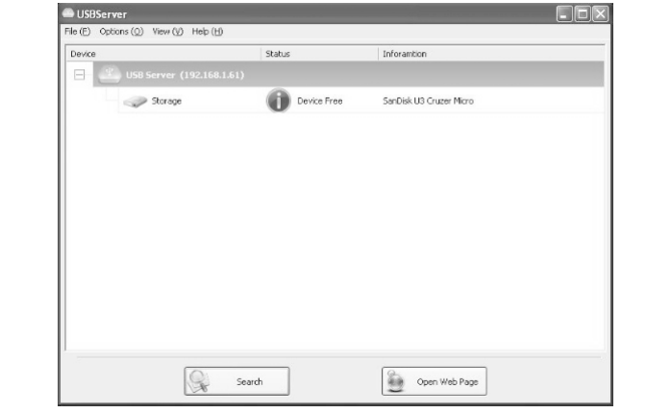
When you are in need of knowing the status of all the servers and devices immediately, use the **Search** button.


USBServer
File (F) Options (O) View (V) Help (H)
Device
Status
Inforamtion
USB Server (192.168.1.61)
Storage
Device Free
SanDisk U3 Cruzer Micro
Search
Open Web Page

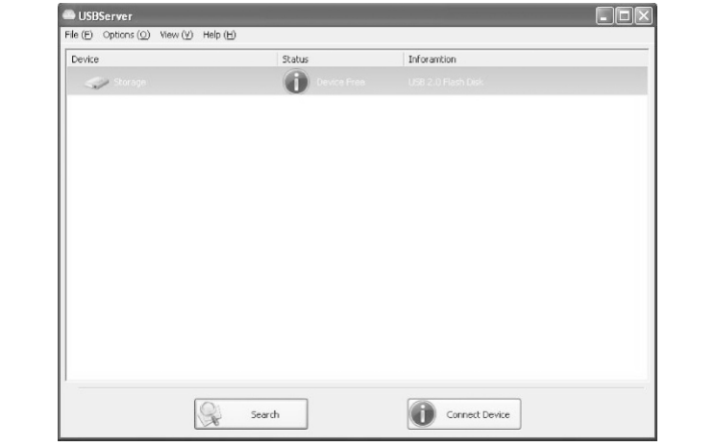
Clicking on the **Search** button triggers the program to immediately poll the network for the status of all the servers and devices. The result will be updated to the tree view.

View

The tree view in the main dialog has two display modes: Servers and Devices mode and Devices Only mode. The default setting is Devices Only mode. You can toggle between these two display modes with the View option on the control menu:

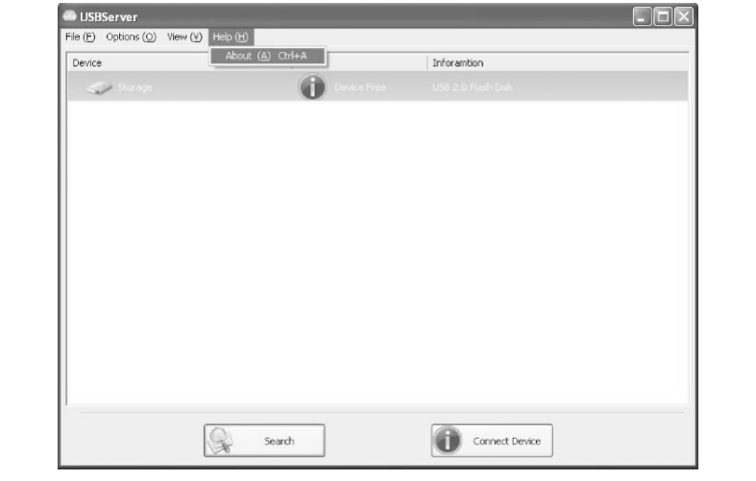

USBServer
File (F) Options (O) View (V) Help (H)
Device
Status
Inforamtion
USB Server (192.168.1.61)
Storage
Device Free
SanDisk U3 Cruzer Micro
Search
Open Web Page

Servers and Devices view


USBServer
File (F) Options (O) View (V) Help (H)
Device
Status
Inforamtion
Storage
Device Free
USB 2.0 Flash Disk
Search
Connect Device

Device Only View

Help -> About


USBServer
File (F) Options (O) View (V) Help (H)
About (A) Ctrl+A
Device
Inforamtion
Storage
Device Free
USB 2.0 Flash Disk
Search
Connect Device

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