

User's Manual

**USB Server**  
**UE204**

UE204

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# 1. Introduction

The UE204 USB Server allows connectivity to USB peripherals over a Gigabit Ethernet network. The free application software provides a user friendly interface between you and the USB Server, and includes the ability to monitor and manage the connected devices.

## 2. Features

- Centralized remote USB Server Management
- Centralized remote USB Server Status Monitoring
- Centralized remote USB Device Management
- Centralized remote USB Device Status Monitoring

### 3. Installation

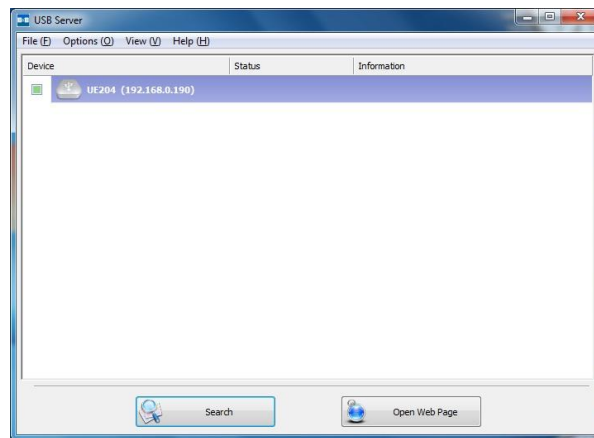
Insert the CD into your CD ROM Drive. The installation program should start automatically. If not, navigate to the installation executable file and double click on it. Follow the instructions provided by the installation wizard. The USB server uses DHCP to assign the IP address by default. If a DHCP server is not available, the USB Server will use IP Address **169.254.10.10**

## 4. Running Program

To start the USB Server application, double click the shortcut icon on the Desktop. The Main Dialog Box will open.



### Main Dialog Box



The main dialog box consists of a **Control Menu** (File, Options, View and Help), a tree view in the middle that displays a list of the servers 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.

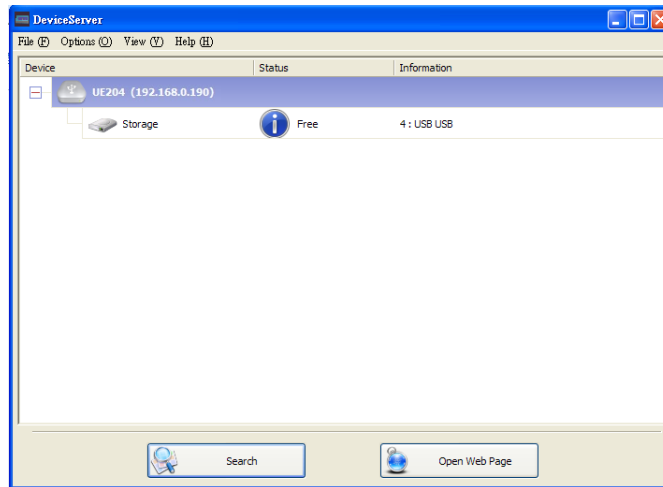
The default configuration for the server is DHCP enabled. If the server is not able to get an IP address from a DHCP server, it will use the IP address 169.254.10.10

## Status of USB Servers and Devices

The tree view tells you the status of all the USB Servers and devices that are on the network.

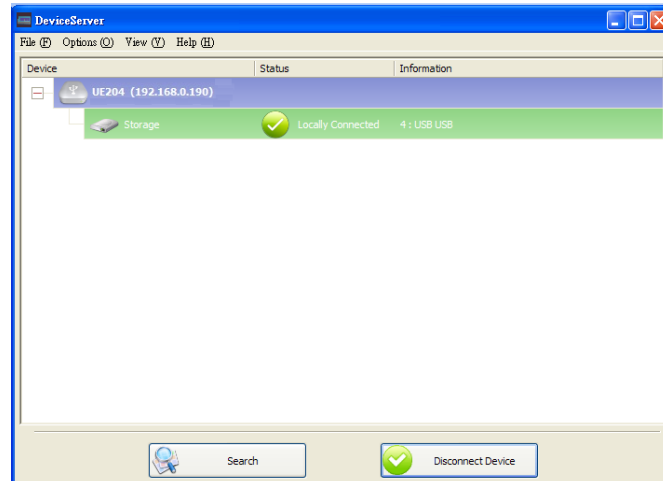
### Device Free

The device is free and you may connect to it.



### Occupied by Your Computer

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





## Occupied By Some Other User



This status icon indicates that the device is occupied by another user on the network.

## Device on Different Segment



This icon indicates that the server's IP address is on a different network segment from your PC. You can NOT connect to a device on this server. Verify and change the network settings.

## Unsupported Device



This icon indicates that the device is not supported by the USB Server.

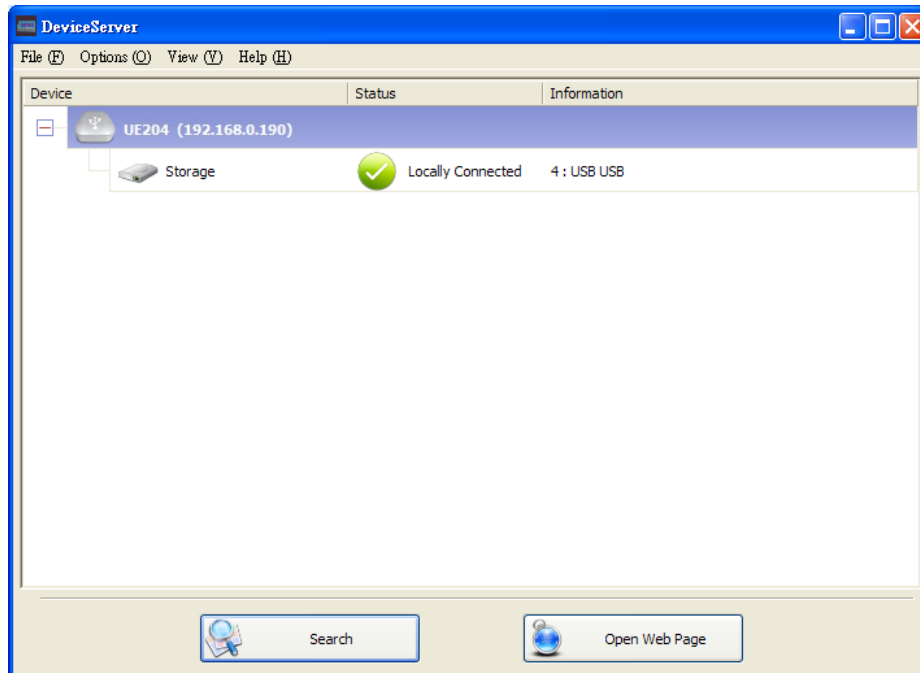
## 5. Accessing a Device

To connect to a USB device, select it on the tree view and click on the **Connect Device** button or double-click on the device itself. The connection process may take up to a minute. Once you connect, you can operate the device as if it were connected directly to your PC's USB port.

Once you are connected to a device, the **Connect Device** button changes to **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.**

## 6. Server Configuration



The USB Server settings are configured via a web-based UI. Select the target server on the tree view and then click on the **Open Web Page** button.

## Configuration with Web-based UI

Your default web browser will open and the web-based configuration UI is displayed.



|                 |
|-----------------|
| Status          |
| Network         |
| Restart Device  |
| Password Change |

### Status

| Server Information |  |
|--------------------|--|
| Server Name        | UE204                                    |
| Manufacturer       | B&B Electronics Mfg. Co.                 |
| Model              | UE204                                    |
| Firmware Version   | V. 2.029.000                             |
| Server UP-Time     | 0 days, 0 hours, 10 minutes, 58 seconds. |
| Web Page Version   | 004                                      |

The main page of the configuration UI displays important information. Clicking on “Status” brings you back to this page; the other links take you to pages with different functions.

## Network Information



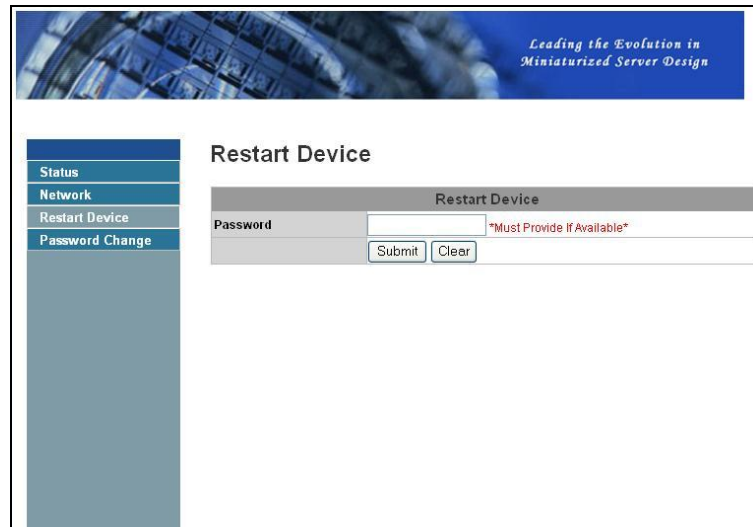
The screenshot shows a web interface with a blue header banner that reads "Leading the Evolution in Miniaturized Server Design". On the left is a vertical navigation menu with four items: "Status", "Network", "Restart Device", and "Password Change". The "Network" item is highlighted. The main content area is titled "Network" and contains a table with the following data:

| Network Information |                   |
|---------------------|-------------------|
| IP Setting          | Automatic (DHCP)  |
| IP Address          | 169.254.10.10     |
| Subnet Mask         | 255.255.0.0       |
| MAC Address         | 00:50:b6:4a:76:d1 |

This page displays the network settings.

## Restart Device

Clicking on this link resets the server. If the password is enabled, it must be entered to reset the server.

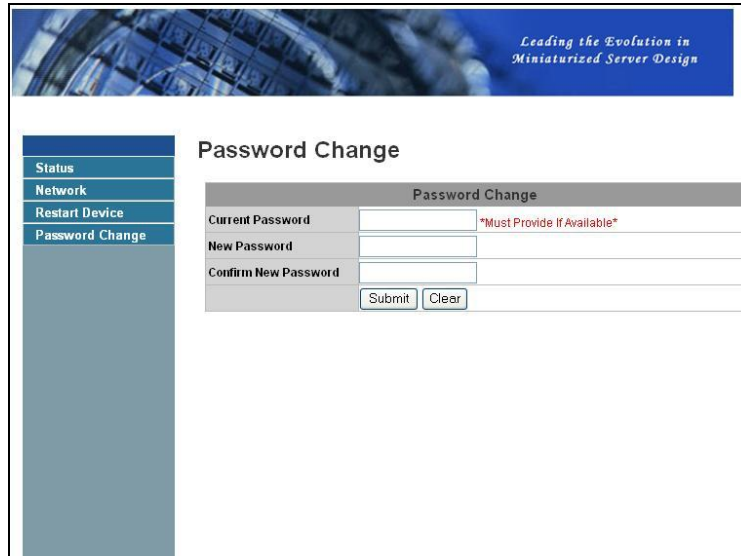


The screenshot shows a web interface with a blue header banner that reads "Leading the Evolution in Miniaturized Server Design". On the left is a vertical navigation menu with four items: "Status", "Network", "Restart Device", and "Password Change". The "Restart Device" item is highlighted. The main content area is titled "Restart Device" and contains a form with the following fields and buttons:

| Restart Device   |  |
|--|--|
| Password   | <input type="text"/> *Must Provide if Available* |
| <input type="button" value="Submit"/> <input type="button" value="Clear"/> |  |

## Change Password

Clicking on this link takes you to the password update page.

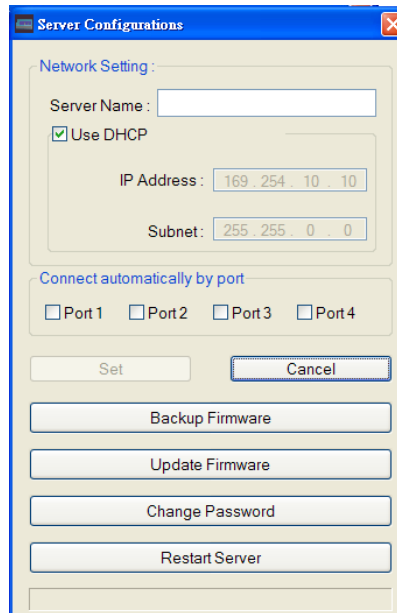


The screenshot shows a web interface for changing a password. At the top right, there is a blue banner with the text "Leading the Evolution in Miniaturized Server Design". On the left, there is a vertical navigation menu with the following items: Status, Network, Restart Device, and Password Change (which is highlighted). The main content area is titled "Password Change" and contains a form with the following fields and controls:

- Current Password**: A text input field with a red asterisk and the text "\*Must Provide if Available\*" to its right.
- New Password**: A text input field.
- Confirm New Password**: A text input field.
- Submit** and **Clear**: Two buttons located below the confirm password field.

## Configuration with the Utility

Another way to configure the server is USB Server configuration dialog. To bring it up, RIGHT-CLICK on the server icon and select **Setting Server**. If a password has been set you will be prompted to enter it.



The screenshot shows a "Server Configurations" dialog box with the following settings and options:

- Network Setting:**
  - Server Name: [Empty text box]
  - Use DHCP
  - IP Address: [169 . 254 . 10 . 10]
  - Subnet: [255 . 255 . 0 . 0]
- Connect automatically by port:**
  - Port 1
  - Port 2
  - Port 3
  - Port 4
- Buttons:** Set, Cancel, Backup Firmware, Update Firmware, Change Password, Restart Server.

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

**USE DHCP:** When this field is checked, your server acquires an IP address automatically. Uncheck it and you can enter the IP address manually. If a DHCP server is not available, the default IP Address for the UHB Server is **169.254.10.10**

**NOTE:** You can apply this function to a server under different a network segment. **HOWEVER, some routers and switches do not allow communication between servers on different segments.**

**Backup Firmware:** this function is a fail-safe mechanism for the Update Firmware function and allows you to save a backup file of your firmware before you upgrade it.

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

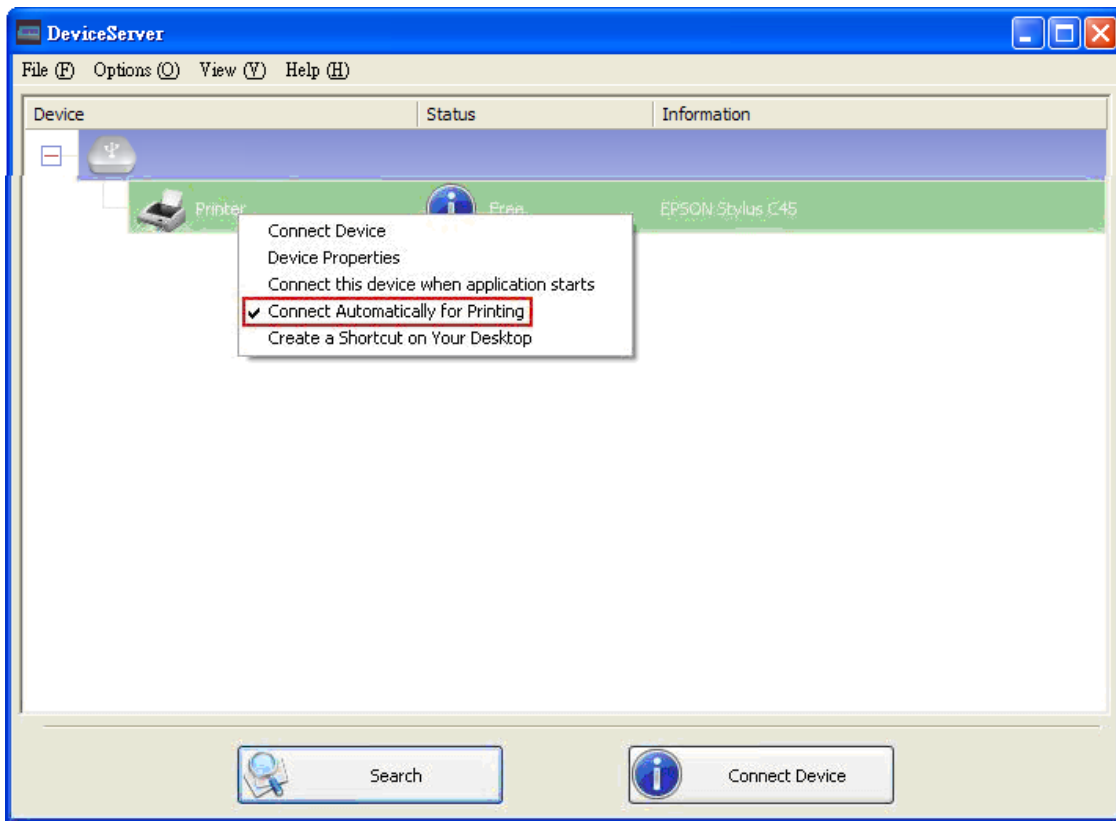
**Change Password:** Enter the new password and enter it again for confirmation. Click on **Submit** to change.

### **Restart Server**

This reboots the server. 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.

## 7. Other Functions

### Connect Automatically for Printing

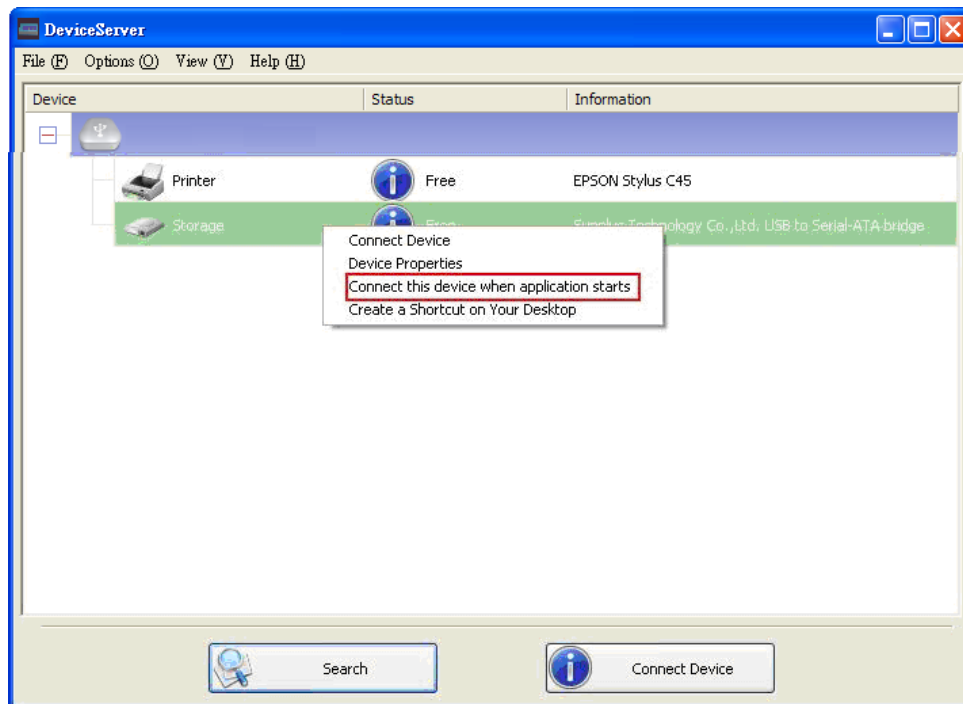


This function allows you to automatically connect to this printer when you send a printing task to it. When the task is completed, the printer will be AUTOMATICALLY disconnected so that other users can use it.

**NOTE: The printer must be installed on your PC.**



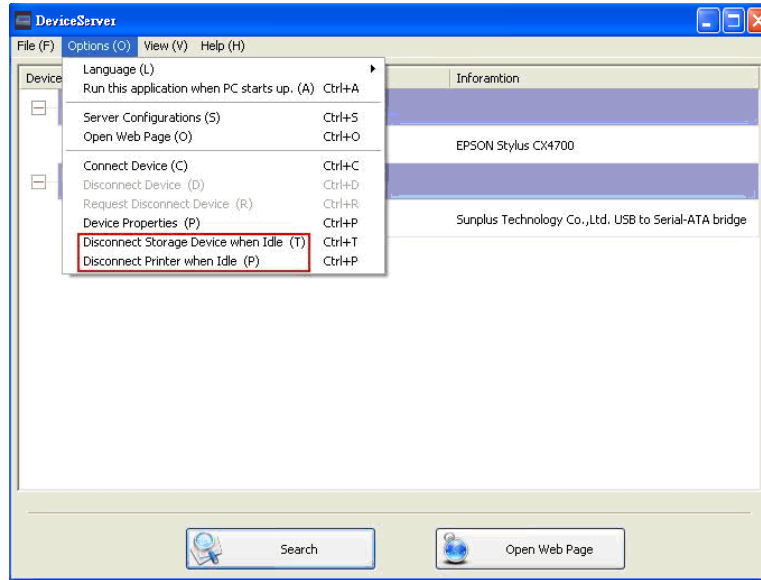
## Connect this device when application starts



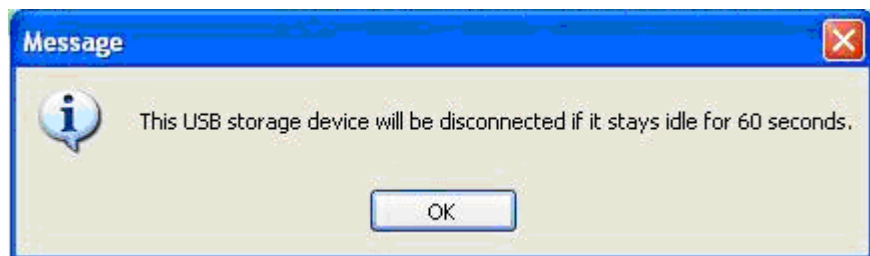
When enabled, this function automatically connects the target device 15 seconds after the application starts running. If this device is occupied when the application starts, it will not be connected. If this device is offline when the application starts, it will not be connected.

## Auto Disconnect Printer/MFP/Storage Device

These functions are used to disconnect a user from a Printer or Storage device after a set period of idle time.

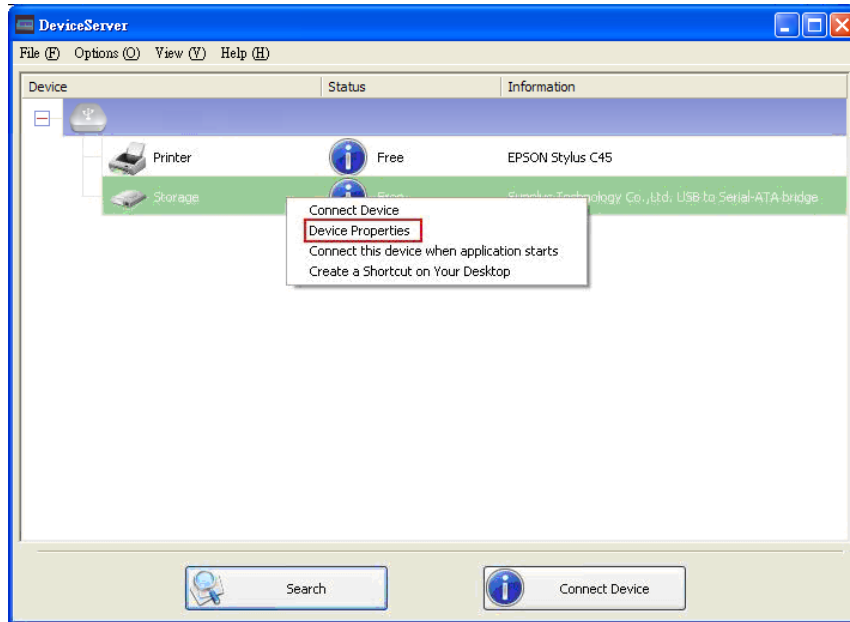


When these two functions are enabled, you will see this message when you connect a Storage device or a printer:

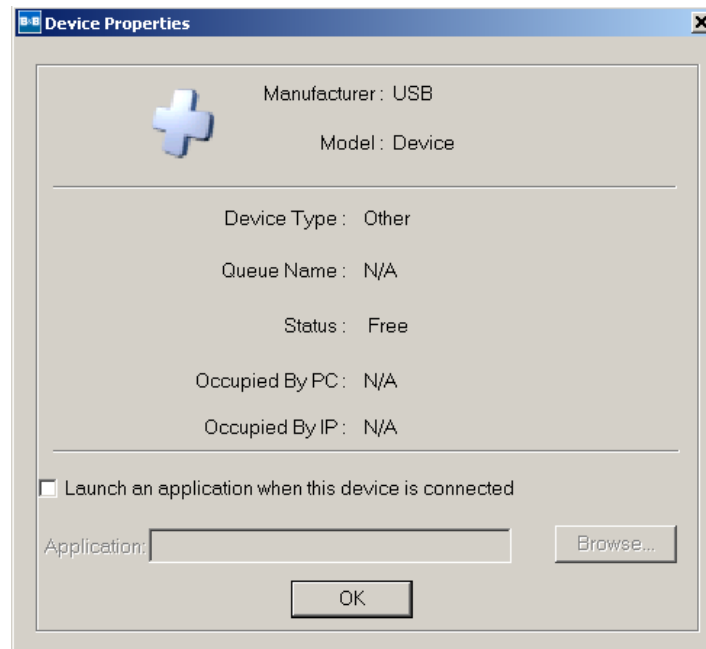


**NOTE: This function will not work with a flash drive or memory stick. These devices periodically communicate with the OS even when the user is not reading or writing data. Therefore, they never actually stay “Idle.” External USB HDD storage devices do not have this problem.**

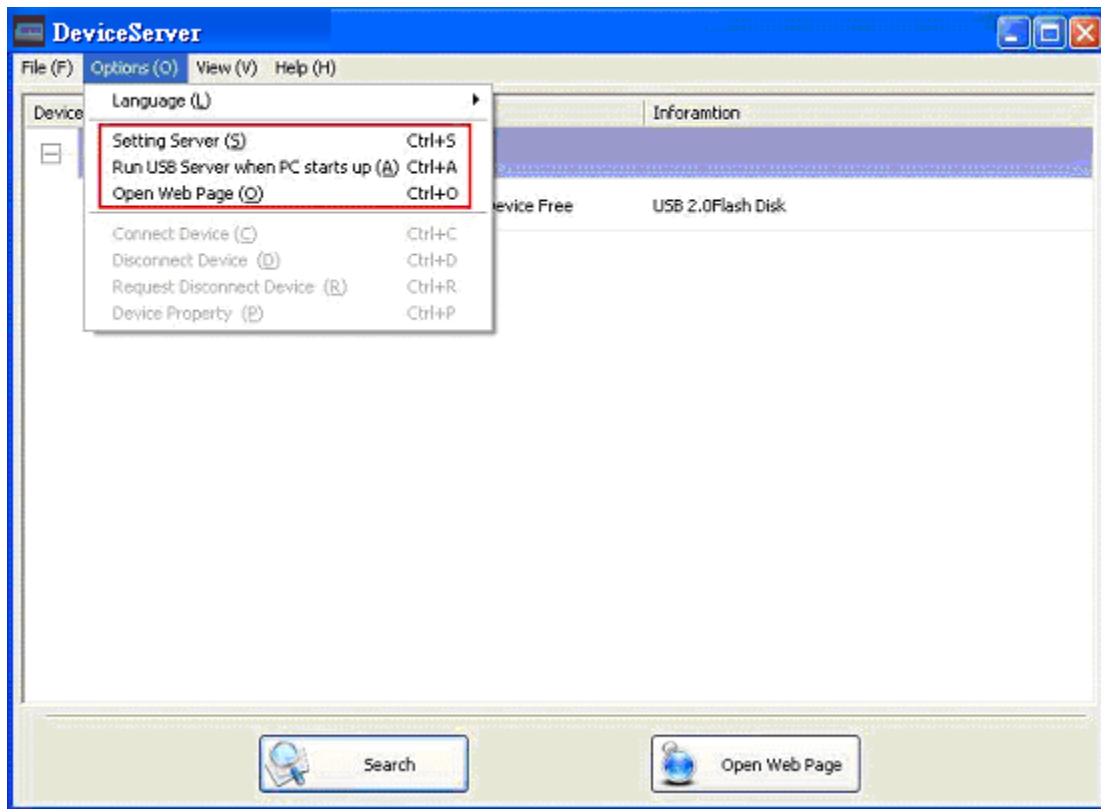
## Device Properties



**Device Properties** 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.



## 8. Server Settings

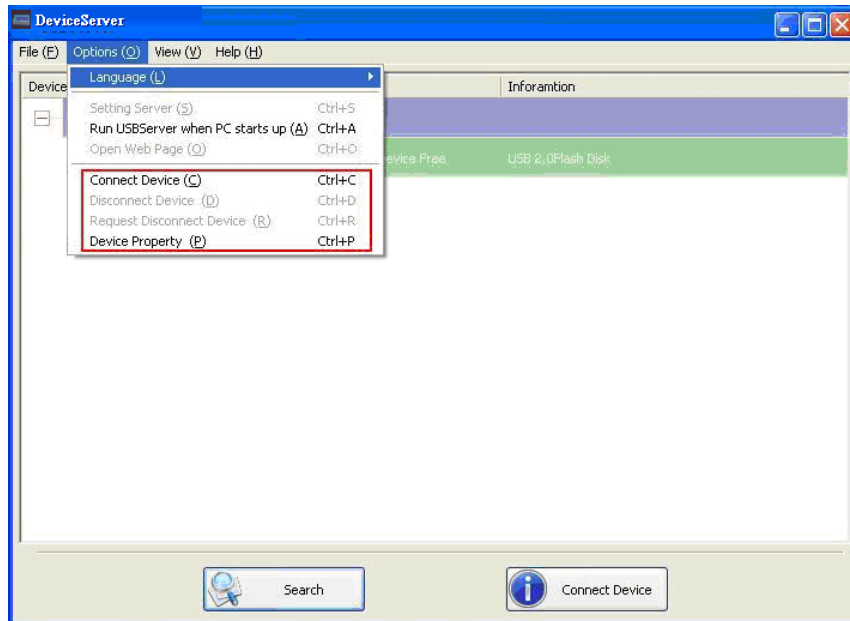


**Setting Server:** Same function as the Setting Server option on the server icon's right click menu.

**Run USB Server When PC Starts Up:** This utility automatically runs when your system starts.

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

## Device Settings

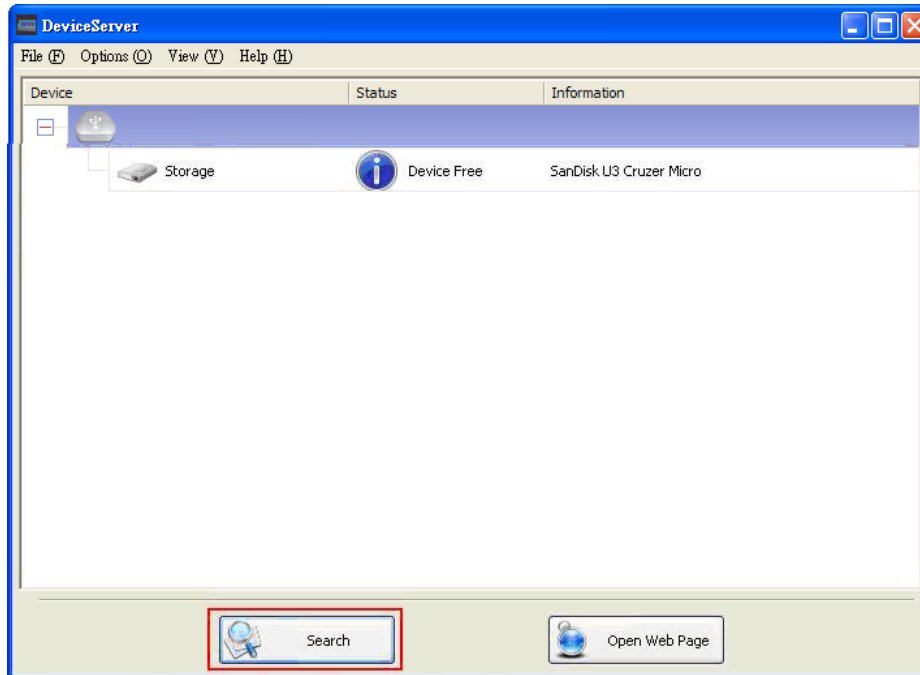


**Connect Device and Disconnect Device:** Connects and disconnects the selected device.

**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 can either release the device or deny the request.

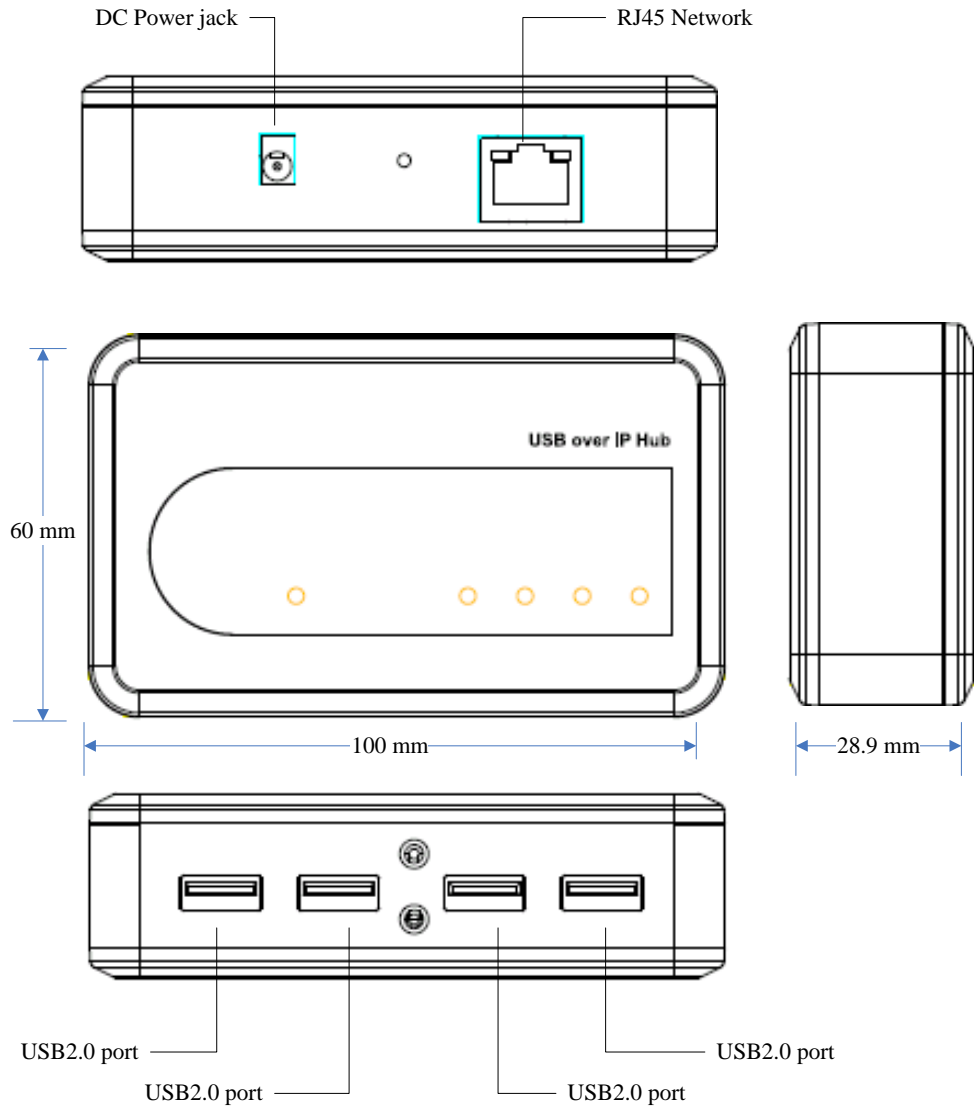
## 9. Search

When you need to know the status of all the servers and devices immediately, use the **Search** button.



# 10. Appendix

## Mechanical Diagram



## Specifications

| Feature                     | Description  |   |
|-----------------------------|--|---|
| Model                       | UE204  |   |
| Software                    | Included on CD   |   |
| Operating systems supported | Server 2008 R2, Windows 7, Windows7 x64, Windows Server 2008, Windows Server 2008 x64, Windows Vista, Windows Vista x64, Windows Server 2003, Windows Server 2003 x64, Windows XP, Windows XP 64, Windows 2000 |   |
| Dimensions                  | 100 x 60 x 28.9 mm (3.9 x 2.4 x 1.2)   |   |
| Enclosure                   | Material   | Material of plastic                                     |
|                             | Color  | Blue  |
|                             | Mounting   | Desktop style, using Keyhole in the rear of unit        |
| Protocol                    | USB  | 1.1/2.0 supported                                       |
|                             | USB speed  | 1.5, 12, 480 Mbps                                       |
|                             | Ethernet   | 10/100/1000 BASE-T                                      |
|                             | IP Assignment  | Default DHCP<br>169.254.10.10 if DHCP is not available. |
| Connector                   | USB  | USB Type-A  |
|                             | Ethernet   | RJ-45 8 pin female                                      |
|                             | Power  | Small barrel connector (3.2x1.3x5.5mm)                  |
| LED                         | Power  | Lights green when power is on                           |
|                             | USB  | Lights green when a USB server is connected             |
|                             | RJ-45  | Lights green when the Ethernet is connected             |
|                             |  | Lights orange when data is transferring                 |
| ESD Protection              | 15KV ESD   |   |
| Power supply requirement    | 5V, 2.5A, DC   |   |
| Operating temperature       | 0°C to 55°C  |   |
| Storage temperature         | 0°C to 70°C  |   |
| Humidity                    | 5% to 90% non-condensing   |   |
| Certifications              | MTBF   | 30°C 79593 hrs, 60°C 63124 hrs                          |
|                             | CE – ESD   | 8kV contact/15KV air                                    |
|                             | IP30   |   |
|                             | RoHS   |   |
|                             | WEEE   |   |