User's Manual

USB Server
UE204

UE204

Document Number: UE204_2711m

International Headquarters:
707 Dayton Road
Ottawa, IL 61350 USA

Phone (815) 433-5100

Website: **www.bb-elec.com**
Sales e-mail: orders@bb-elec.com
Technical Support: support@bb.elec.com

European Headquarters

B&B Electronics

Westlink Commercial Park

Oranmore, Co. Galway, Ireland

Phone +353 91-792444
Website: **www.bb-europe.com**
Sales e-mail: sales@bb-europe.com
Technical Support: support@bb-europe.com

Original – July 2011

Table of Content

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
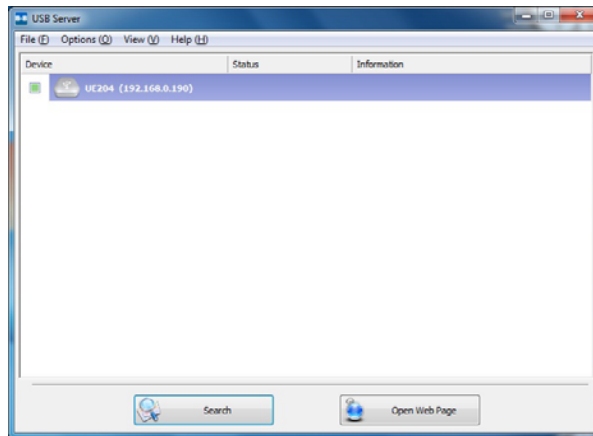
The main dialog box consists of a **Control Menu** (File, Options, View and Help), a tree view in the middle that displays a list of the servers and devices discovered on the network, a **Search** button to get the current status of all USB Servers and devices, and a button that toggles between **Open 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.
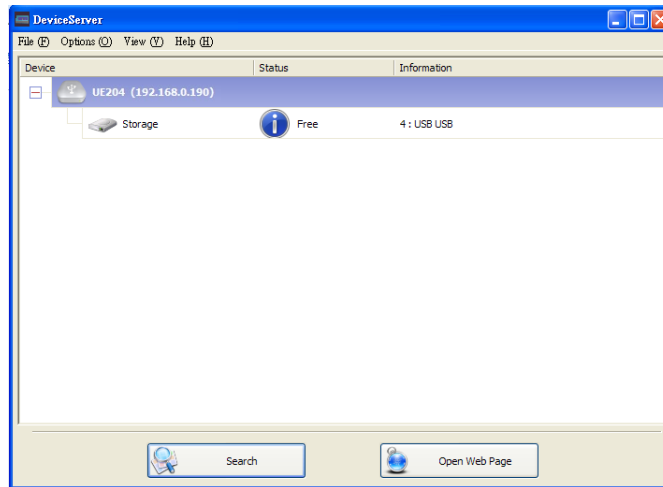
The default configuration for the server is DHCP enabled. If the server is not able to get an IP address from a DHCP server, it will use the IP address 169.254.10.10

Status of USB Servers and Devices

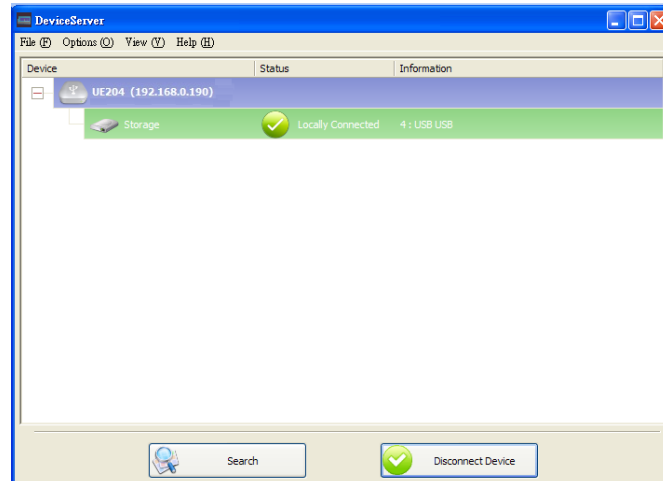The tree view tells you the status of all the USB Servers and devices that are on the network.

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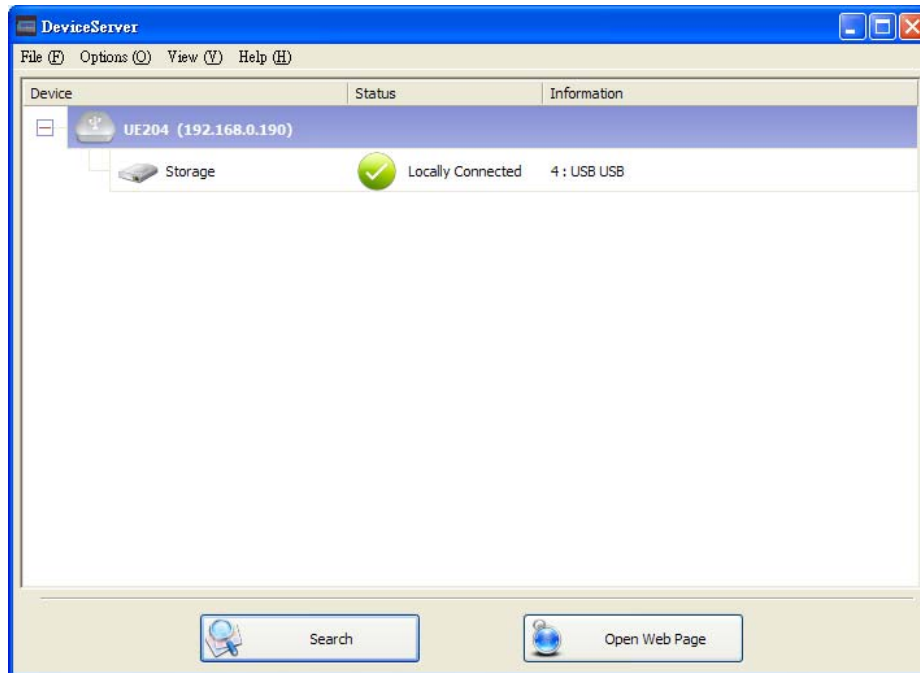
The USB Server settings are configured via a web-based UI. Select the target server on the tree view and then click on the **Open Web Page** button.

Configuration with Web-based UI

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

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.
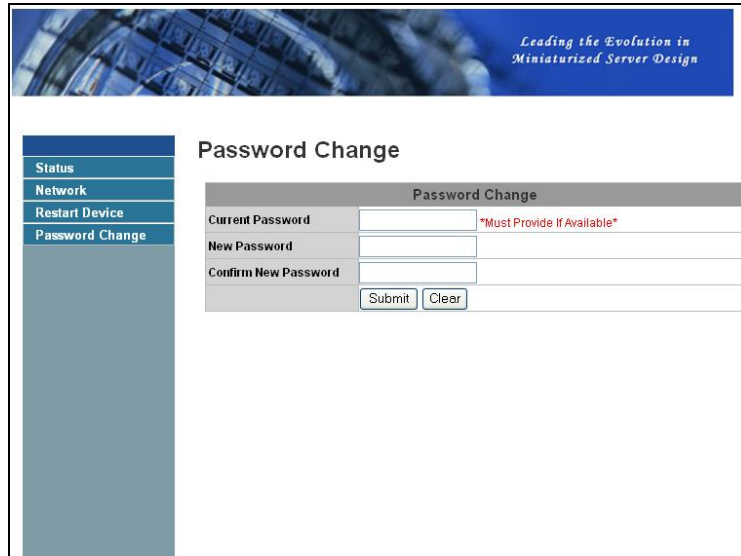
Network Information

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.

Change Password

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

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.

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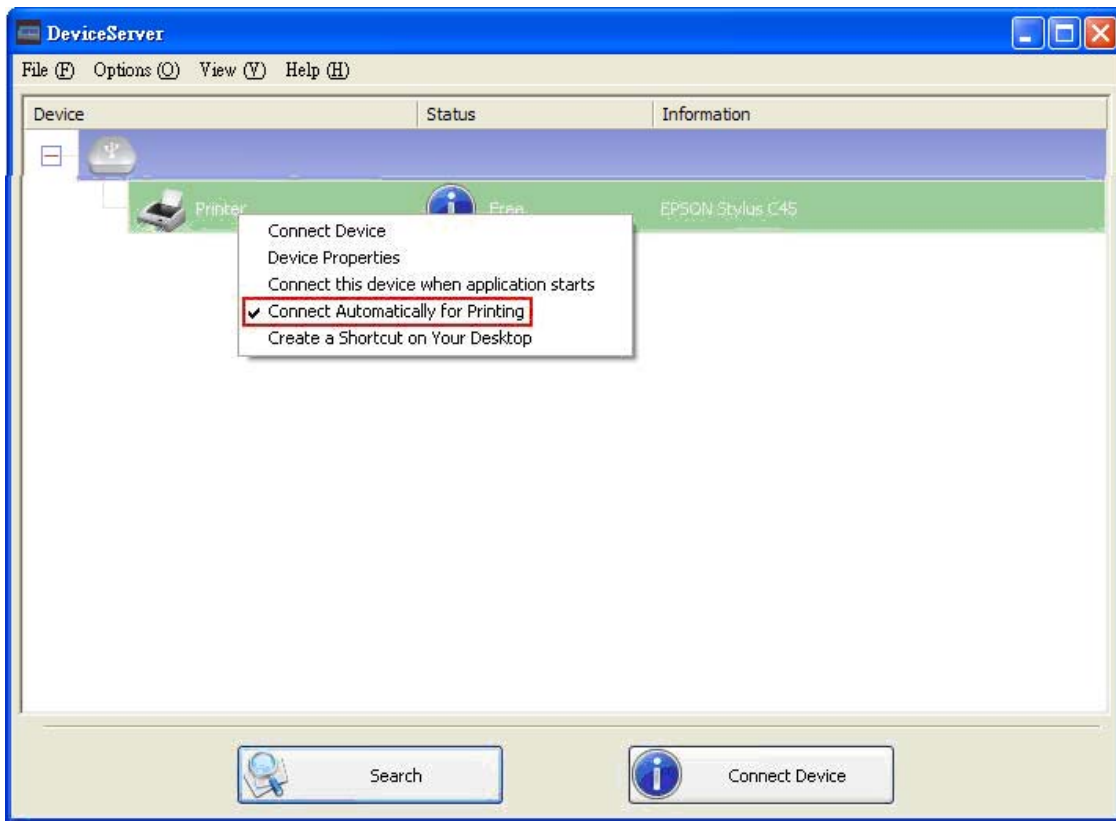
This function allows you to automatically connect to this printer when you send a printing task to it. When the task is completed, the printer will be AUTOMATICALLY disconnected so that other users can use it.

NOTE: The printer must be installed on your PC.

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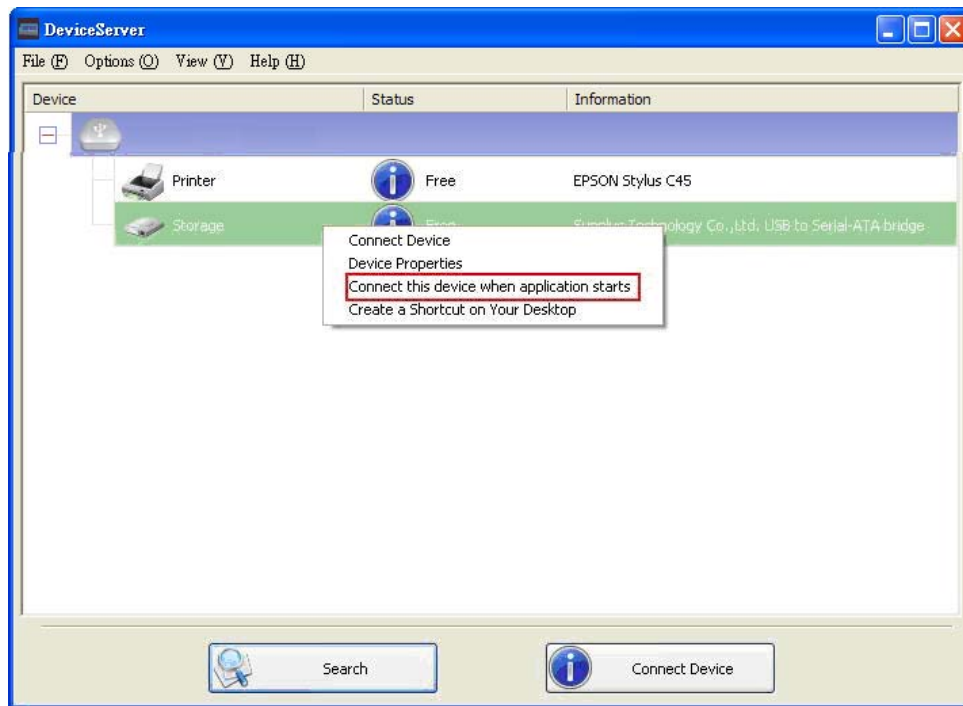
When enabled, this function automatically connects the target device 15 seconds after the application starts running. If this device is occupied when the application starts, it will not be connected. If this device is offline when the application starts, it will not be connected.

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.

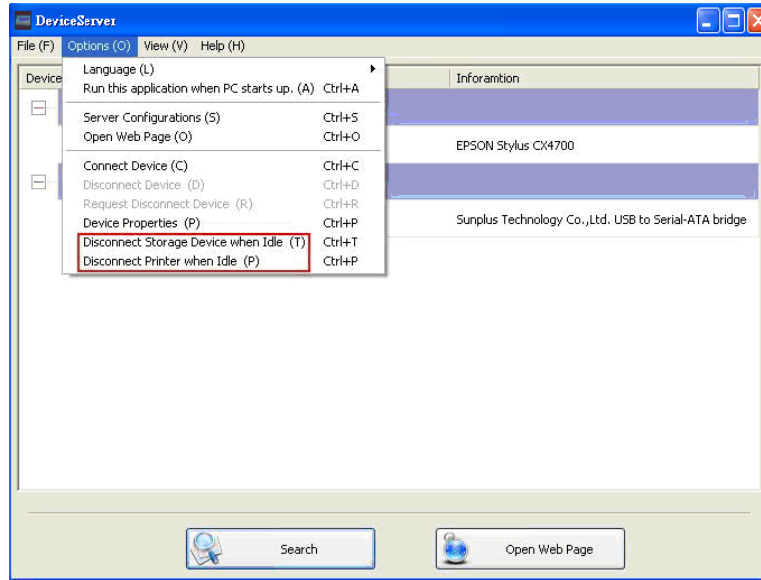When these two functions are enabled, you will see this message when you connect a Storage device or a printer:
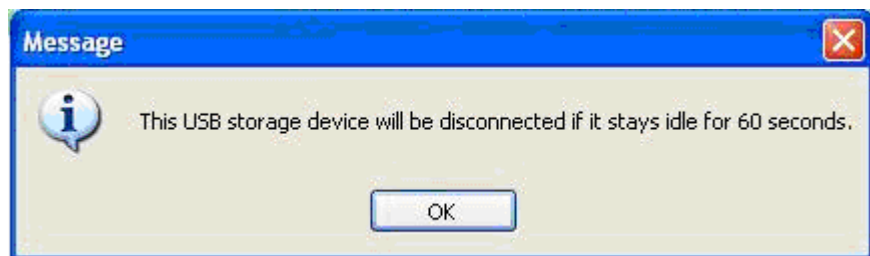
NOTE: This function will not work with a flash drive or memory stick. These devices periodically communicate with the OS even when the user is not reading or writing data. Therefore, they never actually stay "Idle." External USB HDD storage devices do not have this problem.

Device Properties
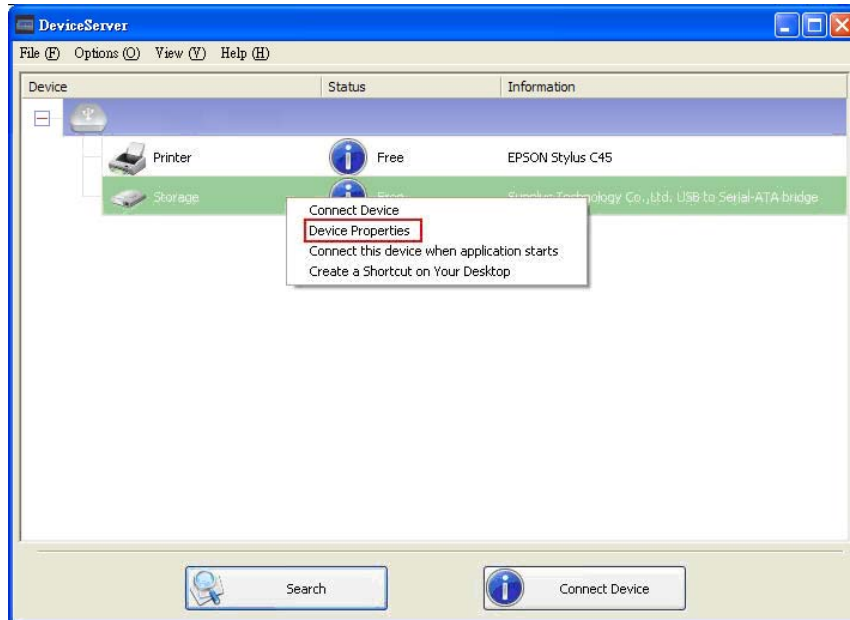
Device Properties dialog box displays information of the USB device. If the device is occupied, it also displays the occupying PC name and the IP of the PC occupying it.
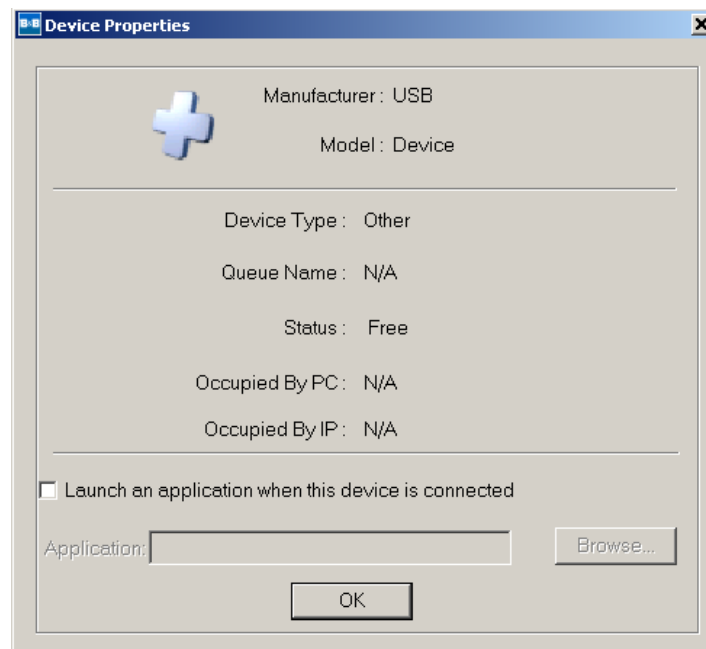
8. Server Settings
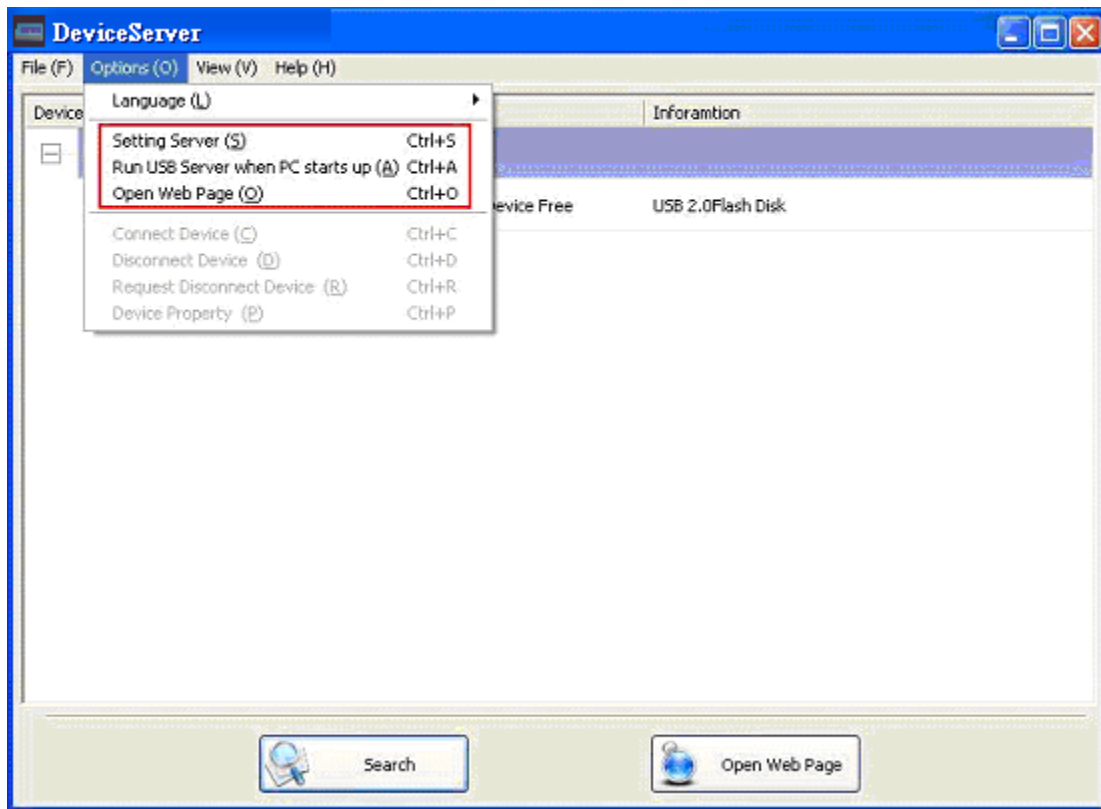
Setting Server: Same function as the Setting Server option on the server icon's right click menu.

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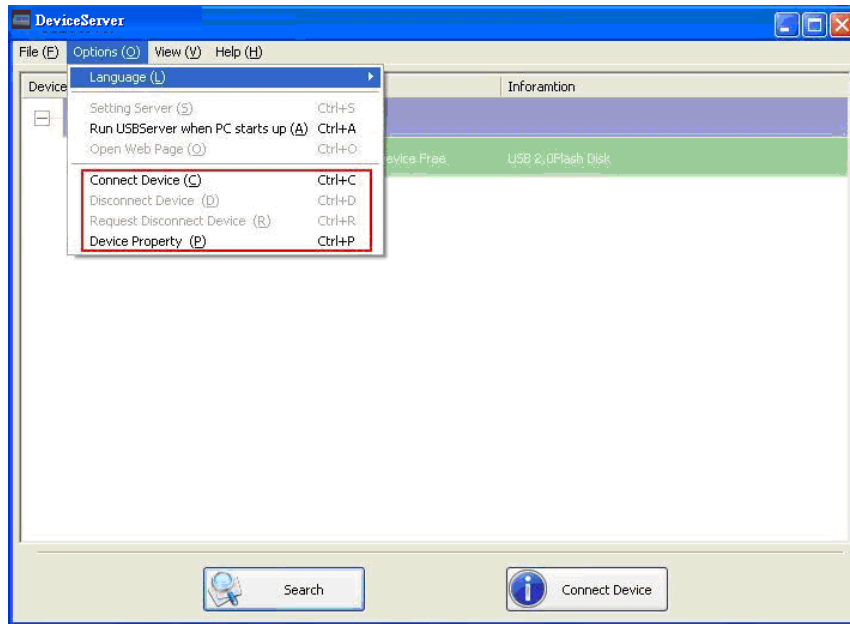
Connect Device and Disconnect Device: Connects and disconnects the selected device.

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.
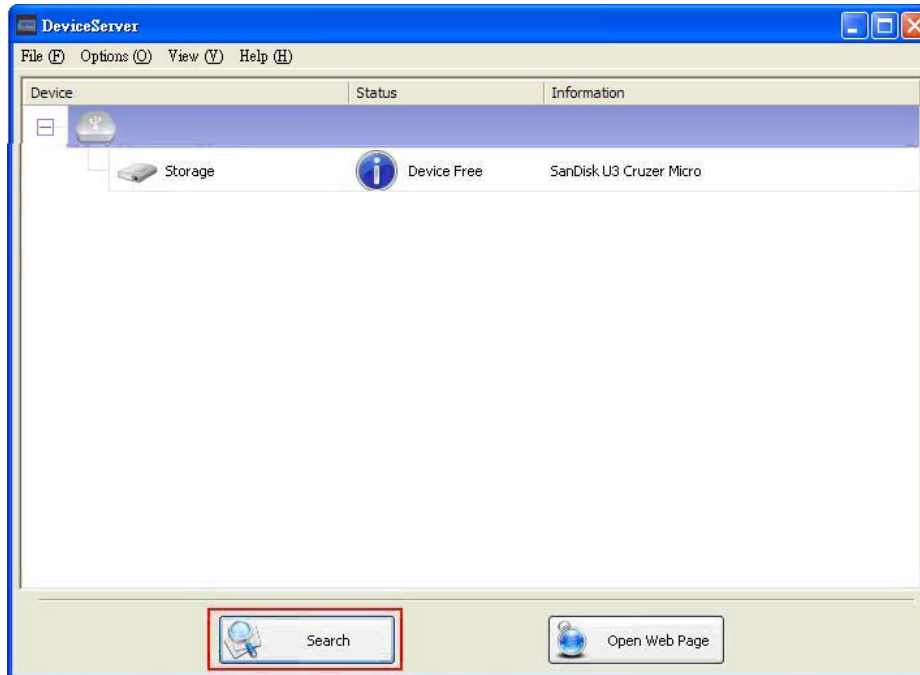
10.   Appendix

Mechanical Diagram

DC Power jack

RJ45 Network

USB over IP Hub

60 mm

100 mm

28.9 mm

USB2.0 port

USB2.0 port

USB2.0 port

USB2.0 port

USB2.0 port

Specifications

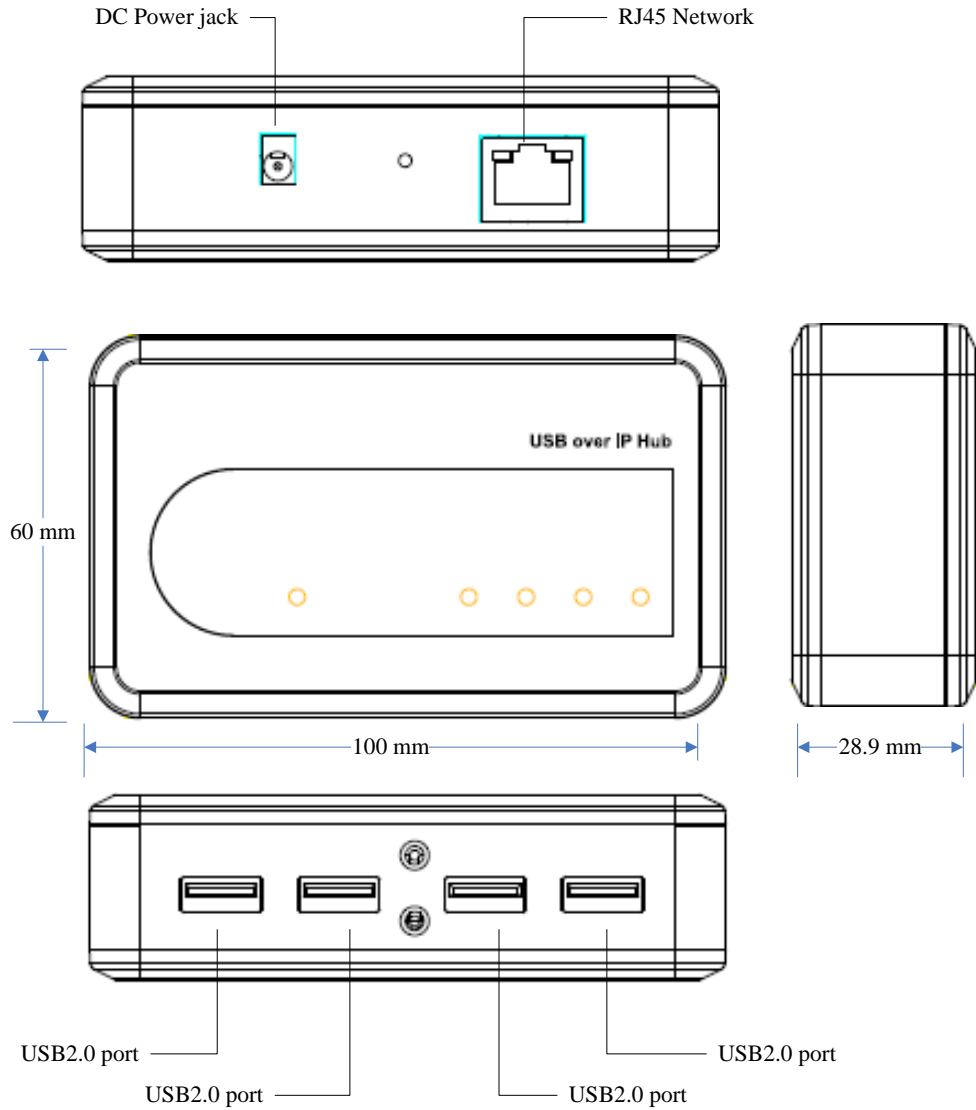| Feature	Description	
Model	UE204	
Software	Included on CD	
Operating systems supported	Server 2008 R2,Windows 7,Windows7 x64, Windows Server 2008, Windows Server 2008 x64,Windows Vista, Windows Vista x64,Windows Server 2003,Windows Server 2003 x64,Windows XP, Windows XP 64,Windows 2000	
Dimensions	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
		169.254.10.10 if DHCP is not available.
Connector	USB	USB Type-A
	Ethernet	RJ-45 8 pin female
	Power	Small barrel connector (3.2x1.3x7.5mm)
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	