



- Complete the steps in this guide prior to arriving to Friday's class on Daktronics Audio Products as you will need to connect your computer to the Daktronics sound systems for testing.
  - Install Cobranet Discovery and follow setup guide
  - Know how to set static IP on computer
  - Download and unzip Monitor Panels
  - $\circ$   $\;$  Download firmware files and store in appropriate folder  $\;$

Each piece of software is free to download and use. Monitor Applications are only available through Daktronics. Monitor Applications are not used with Custom Audio Systems.

## 1.1 Microsoft .NET Framework 4

 Verify that Microsoft.NET Framework 4 is installed on your computer by going to Start > Control Panel > Programs and Features.

Control Panel Home	Uninstall or change a program					
View installed updates	To uninstall a program select it from the list and then click Uninstall	Change or Renair				
Turn Windows features on or off	to announ a program process in non-use instance and their cries ormatoling	enonget of Repairi				
Install a program from the	Organize *					
network	Name	Publisher	Installed On	Size	Version	
	Creo Thumbnail Viewer 1.0	PTC	10/10/2011	15.6 MB	28.11.180	
	Rell Touchpad	ALPS ELECTRIC CO., LTD.	12/9/2010		7.1107.101.210	
	DWG TrueView 2010	Autodesk	11/29/2010		18.0.55.0	
	Expert Framework Extension Release 6.0 Datecode M020	PTC	12/13/2010		6.0	
	Expert Framework Extension Release 7.0 Datecode F000	PTC	4/1/2011		7.0	
	E Glovia Client	Glovia	11/29/2010		2.0.0.515	
	CoToMeeting 4.5.0.457		3/25/2011			
	Java(TM) 6 Update 23	Oracle	12/15/2010	94.9 MB	6.0.230	
	Java(TM) 6 Update 24 (64-bit)	Oracle	3/15/2011	90.7 MB	6.0.240	
	EGATO EmailXtender® 4.81 Client	EMC Corporation	11/29/2010	10.0 MB	4.81.1043	
	e LiveUpdate 3.3 (Symantec Corporation)	Symantec Corporation	7/22/2011		3.3.0.101	
	Mathcad 15 F000	PTC	11/29/2010	343 MB	15.0.0.0	
	MECAWind, v2.0.3.1	Meca Enterprises, Inc.	12/13/2010			
	Microsoft .NET Framework 4 Client Profile	Microsoft Corporation	11/30/2010	38.8 MB	4.0.30319	
	Microsoft .NET Framework 4 Extended	Microsoft Corporation	4/13/2011	51.9 MB	4.0.30319	
	Microsoft Office File Validation Add-In	Microsoft Corporation	9/20/2011	7.95 MB	14.0.5130.5003	
	Microsoft Office Live Meeting 2007	Microsoft Corporation	6/1/2011	51.2 MB	8.0.6362.202	
	S Microsoft Office Professional Plus 2007	Microsoft Corporation	11/29/2010		12.0.6425.1000	
	Sandard 2007	Microsoft Corporation	12/13/2010		12.0.6425.1000	
	🛛 🚰 Microsoft Save as PDF or XPS Add-in for 2007 Microsoft Office progr	Microsoft Corporation	11/29/2010	124 KB	12.0.4518.1014	
	Wicrosoft Silverlight	Microsoft Corporation	10/18/2011	100 MB	4.0.60831.0	
	Microsoft Visual C++ 2005 ATL Update kb973923 - x64 8.0.50727.4053	Microsoft Corporation	12/3/2010	260 KB	8.0.50727.4053	

**2.** If this program is not installed on your computer, you must download and install it from the internet or use the link below before proceeding.

http://www.microsoft.com/downloads/en/details.aspx?FamilyID=9cfb2d51-5ff4-4491b0e5-b386f32c0992&displaylang=en

## 1.2 CobraNet Discovery

- 1. Download and Install CobraNet Discovery version 4.0.5: http://www.cobranet.info/downloads/disco/405
- **2.** Once CobraNet Discovery is installed, there should be a shortcut on the Desktop. Double-click the icon to open the program.
- 3. In CobraNet Discovery, go to Tools > Options.
  - **a.** Select the *Network Adapter* you will use to connect to the amplifier(s).
  - **b.** Set the *Start* and *End IP Address Range* as follows:

Start IP Address:	192.168.1.1
End IP Address:	192.168.1.159

c. Enable Auto Assignment, and then click OK.



P Address Rang	e
Start:	192 . 168 . 1 . 1 📝 Enable Auto Assignment
End:	192 . 168 . 1 . 159 Default
atabase Locatio	n
:\Cirrus Logic\C	obraNet Discovery\firmware

4. Ensure all of the data fields below are visible:

IP Address MAC Address errorCount sysDescription sysName sysContact sysLocation Rx1 Tx1

CobraNet(tm) Discovery										×
CobraNet Edit View Tools Help										
S IP Address MAC Address errorCount sysDescription		audioAllowedChannels audioRxChannels audioTxChannels condPriority condStatus errorCode errorCode	sysName	sysCon	tact	sysLocation		Rx1	Tx1	
Status	<ul> <li>Image: A start of the start of</li></ul>	ifInErrors modeStatus Rx1 Rx2 Rx3			De	vices: 0	Active: 0		Dead: 0	
	<ul> <li></li> <li></li> <li></li> <li></li> <li></li> </ul>	Rx4 sysContact sysDescription sysLocation sysName sysUpTime Tx1								

**Note:** To add or delete columns, right-click on one of the column headings. Click on the data fields to display in the list that appears.

- 5. Go to "C:\Cirrus Logic\CobraNet Discovery", right-click on "CNDisco.exe.config", and open the file with Notepad or Notepad++.
- 6. Find the <add key="Advanced feature" value="0" /> attribute. Change the value from "0" to "1", and then **Save** and close file.

💌 *C:\C	Cirrus Logic\CobraNet Discovery\CNDisco.exe.Config - Notepad++					
File Ec	dit Search View Encoding Language Settings Macro Run TextFX Plugins Window ?	x				
i 🔓 🖨	x x x x x x x x x x x x x x x x x x x					
	isco exe.Config					
1	xml version="1.0" encoding="utf-8"?					
2	<configuration></configuration>					
3	<configsections></configsections>					
4	<section name="CobraNet" type="CobraNet.Cobramon.CobraNetSection, CNDisco"></section>					
5						
6		=				
7	<appsettings></appsettings>					
8						
10	27-1					
11	<codianel></codianel>					
12	<pre><commodecting> </commodecting></pre>					
13	<pre><ad key="adapter Index" value="[2] Intel (R) 82577LM Gigabit Network Connection"></ad></pre>					
14	<pre><dd key="Firmware Location" value="c:\cirus Logic\CobraNet Discoverv/firmware"></dd></pre>					
15	<pre><add key="Age To Die" value="5000"></add></pre>					
16	<add key="Advanced Feature" value="0"></add>					
17	<add key="cobramon debug" value="0"></add>					
18	<add key="cobramon log" value="0"></add>					
19	<pre><add key="CC_UIMask" value="EnableConfig, EnableReport, EnableAdvanced, EnableSnmp"></add></pre>					
20	<pre><add key="CC_Enable" value="EnableConfig, EnableReport, EnableAdvanced"></add></pre>					
21	<add key="CC_ReadCommunity" value="public"></add>					
22	<add key="CC_WriteCommunity" value="private"></add>					
23	<add key="CC_Retries" value="2"></add>					
24	<pre><ad key="CC_Timeout" value='1500"'></ad> <ad key="CC_Polut" value='1500"'></ad></pre>					
25	<dou key="ct_Deldy" value="10"></dou>					
27	<pre></pre> // Commonsettermy/ / widthofbefaultColumns>					
28	<pre></pre>					
29	<add key="Status Col Width" value="30"></add>					
30	<add kev="IP Address" value="100"></add>					
31	<add key="MAC Address" value="100"></add>	-				
Normal	text file         4814 chars         5018 bytes         103 lines         Ln : 16         Col : 43         Sel : 0 (0 bytes) in 0 range         Dos\Windo A	NSI INS				

#### **1.3 Monitor Application**

Go to <u>http://dakfiles.daktronics.com</u> and navigate to Audio > Software Installation > Monitor Panels:

[To Parent D	irect	ory]		
5/13/2016 1	0:19	AM	2197422	DD3318172 - Sportsound Amplifier Field Guide.pdf
1/22/2014 1	2:54	PM	396	READ ME.txt
2/17/2016	3:29	PM	23762212	SS1500HD MONITOR NEW.zip
10/7/2014 1	0:30	AM	22106417	SS2000HD MONITOR.zip
10/7/2014 1	0:28	AM	23237054	SS500HD MONITOR.zip

Download the specific zip file(s) you need.

- **2.** Right-click on a downloaded zip file and select **Extract All**. Click **Extract** to create a folder in the location you saved the zip file. Repeat this step for all downloaded zip files.
- 3. Inside the unzipped folder, double-click the .exe file to open the program.

Name	Date modified	Туре	Size
📄 config.json	10/7/2014 9:29 AM	JSON File	1 KB
🚳 ffmpegsumo.dll	1/20/2016 12:27 PM	Application extens	841 KB
🚳 icudt.dll	1/20/2016 12:27 PM	Application extens	9,724 KB
🚳 libEGL.dll	1/20/2016 12:27 PM	Application extens	100 KB
🚳 libGLESv2.dll	1/20/2016 12:27 PM	Application extens	860 KB
nw.pak	1/20/2016 12:27 PM	PAK File	5,160 KB
SS1500HD	1/20/2016 12:27 PM	Application	38,491 KB

For more information about the monitor application, refer to **Section 6**.

# Section 2: Computer IP Settings

With all the necessary software installed, you must now change the computer's IP settings to connect to the amplifiers.

**Note:** You can either change your IP settings each time you want to connect (**Option A**), or you can set up you computer to select an alternate IP address if it can't find one (**Option B**). Note that Option B does take longer for your computer to read and connect to CobraNet Discovery.

- 1. Go to Start > Control Panel > Network and Sharing Center.
- 2. Click on your Local Area Connection.

🚱 🕞 👳 👯 🕨 Control Panel 🕨	All Control Panel Items      Network and Sharing Center	Q
Control Panel Home	View your basic network information and set up connections	0
Manage Wireless networks Change adapter settings Change advanced sharing settings	TL-13607-1 daktronics.lan Internet (This computer) View your active networks Connect or disconnect	
	daktronics.lan         Access type:         Internet           Domain network         Connections         Image: Connection line	
	Change your networking settings	
	Set up a new connection or network Set up a wireless, broadband, dial-up, ad hoc, or VPN connection; or set up a router or access point.	
	Connect or reconnect to a wireless, wired, dial-up, or VPN network connection.	
See also HomeGroup	Choose homegroup and sharing options Access files and printers located on other network computers, or change sharing settings.	
Internet Options Windows Firewall	Troubleshoot problems Diagnose and repair network problems, or get troubleshooting information.	

**3.** Click on **Properties**. Select your **Internet Protocol Version # (TCP/IPv#)**, and then click **Properties**.

🕌 Local Area Connection Status	📮 Local Area Connection Properties
General	Networking Sharing
Connection IPv4 Connectivity: Internet IPv6 Connectivity: No Internet access Media State: Enabled Duration: 2 days 06:58:13 Speed: 1.0 Gbps Dgtails	Connect using: Intel(R) Ethemet Connection 1219-LM Configure This cgnnection uses the following items: Configure This cgnnection uses the following items: Configure Configure Configure Configure Configure Configure Configure Configure Configure Configure Configure Configure Configure Configure Configure Configure Configure Configure Configure
Activity	
Bytes: 597,679,271 5,485,024,838	Description Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
Glose	OK Cancel

4. Follow the steps in either **Option A** or **Option B**.

# 2.1 Option A

Click on **Use the following IP address** and enter the *IP address* and *Subnet mask* as shown below. Click **OK** three times when finished to save the settings.

IP Address: 192.168. 1 .160 Subnet mask: 255.255.0.0

Note: Be sure to revert to previous settings when no longer servicing audio.

Internet Protocol Version 4 (TCP/IPv4) Properties					
General					
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.					
Obtain an IP address automatical	у				
Ouse the following IP address:					
IP address:	192.168.1.160				
Subnet mask:	255.255.0.0				
Default gateway:	· · ·				
Obtain DNS server address autom	natically				
• Use the following DNS server add	resses:				
Preferred DNS server:					
Alternate DNS server:	• • •				
Validate settings upon exit					
	OK Cancel				

# 2.2 Option B

Click on **Obtain an IP address automatically** and then click on the **Alternate Configuration** tab. Click **User Configured**, and enter the *IP address* and *Subnet mask* as shown below. Click **OK** three times when finished to save the settings.

IP Address: 192.168.1.160 Subnet mask: 255.255.0.0

Internet Protocol Version 4 (TCP/IPv4)	Properties				
General Alternate Configuration					
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.					
Obtain an IP address automatical	ly:				
Use the following IP address:	<u> </u>				
IP address:	· · · ·				
Subnet mask:					
Default gateway:	· · · ·				
Obtain DNS server address auton	natically				
OUSe the following DNS server add	Iresses:				
Preferred DNS server:					
<u>A</u> lternate DNS server:					
Validate settings upon exit	Ad <u>v</u> anced				
	OK Cancel				

Internet Protocol Version 4 (TCP/IPv4)	Properties				
General Alternate Configuration					
If this computer is used on more than one network, enter the alternate IP settings below.					
Automatic private IP address					
Oser configured					
IP address:	192.168.1.160				
Subnet mask:	255.250.0.0				
Default gateway:	• • •				
Preferred DNS server:	· · ·				
Alternate DNS server:					
Preferred WINS server:	· · ·				
Validate settings, if changed, upon exit					
	OK Cancel				

## 2.3 Update Firmware

 If not already loaded on your computer, download the latest firmware files by going to <u>http://dakfiles.daktronics.com</u> and navigate to Audio > Servicing Sportsound Systems > Updating Firmware:

```
        [To Parent Directory]

        5/13/2016 10:20 AM
        1177648 Sportsound Firmware Files.zip

        7/17/2017 5:26 PM
        <dir>
        <dir>
        SS1000 Firmware
```

Download the "Sportsound Firmware Files" zip file. Right-click on the file and select **Extract All**. Click **Extract** to create a folder in the location you saved the zip file.

**2.** Copy all firmware (.bin) files from the unzipped folder into "C:\Cirrus Logic\CobraNet Discovery\firmware".