

# frontrow™

CM800Si



## CONFIGURATION GUIDE

# Contents

<b>Introduction</b> .....	1
<b>Specifications</b> .....	2
<b>Configuration</b> .....	3
1. <a href="#">Connect your CM800Si</a> .....	3
2. <a href="#">Name your CM800Si</a> .....	4
3. <a href="#">Secure your CM800Si</a> .....	4
4. <a href="#">Set audio parameters</a> .....	5
5. <a href="#">Enable networking</a> .....	6
6. <a href="#">Serial Ports</a> .....	7
7. <a href="#">Miscellaneous</a> .....	7
8. <a href="#">Enter Command</a> .....	9
9. <a href="#">Macro Definitions</a> .....	10
10. <a href="#">Action Definition</a> .....	11
11. <a href="#">Action Viewer</a> .....	12
12. <a href="#">Event Definition</a> .....	13
13. <a href="#">Event Viewer</a> .....	15
14. <a href="#">Save/Restore</a> .....	16
<b>Appendix A</b> .....	17

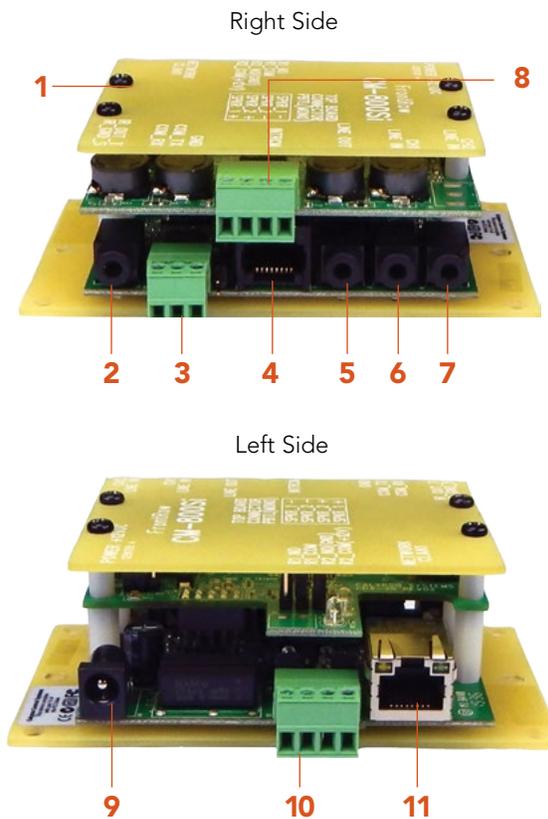
# Introduction

## CM800Si

The CM800Si is the networked audio encoder / decoder / amplifier used in the FrontRow IP Intercom Speaker Kit. It includes a 30W amplifier module for driving speakers directly and includes an intercom jack for a FrontRow intercom microphone. The CM800Si in the IP Intercom Speaker Kit is designed primarily for rooms that want to add IP-based paging and intercom to smaller common areas such as conference rooms, teacher's lounge or nurse's office.

# Specifications

## CM800Si Networked Audio Encoder/Decoder/Amplifier with Intercom



### SPECIFICATIONS

**Network support:** 10/100Mb/s (auto sensing)

**Serial Baud rate:** 2400 to 115200 baud

**Power supply:** 12VDC at 3.5A

**Size (WxHxD):** 9.8 x 6.4 x 3.7cm/3.84 x 2.5 x 1.5in

**Amplifier Type:** Class D

**Maximum output power:** 2 x 8w (8 Ω), 2 x 16w (4 Ω)

**Weight:** 0.14kg/0.30lbs

### INPUTS/OUTPUTS

- (1) input power jack
- (1) RJ45 network jack
- (1) 3.5mm audio input jack (stereo, Line 2) (port shared with RJ45 mic input jack)
- (1) 3.5mm audio input jack (mono, Line 1)
- (2) captive screw general purpose output (GPO) relay terminals (4 position)
- (1) 3.5mm infrared control output jack
- (1) captive screw RS232 serial control input/output terminal (3 position)
- (1) captive screw loudspeaker terminal left and right, (mono output)
- (1) 3.5mm (audio output)
- (1) RJ45 Intercom jack for CB75 / CB85 (port shared with Line 2 input jack)

### 1 Brings Conductor IP-based paging and intercom to small common areas and office spaces

This audio decoder accepts 8kHz streaming audio input and drives up to four 8-ohm speakers, and includes an intercom jack for a FrontRow intercom microphone (CB75 or CB85), conveniently bringing IP paging and intercom to small common areas and shared office spaces.

**IP Stream Detect** - when used with an amplifier with an RS232 interface - in a multi-purpose room or gymnasium, for example - can be programmed to mute local audio when an audio stream from FrontRow Conductor is detected.

### Converts your analog PA system to an IP-based streaming solution

Mixes and samples line-level audio and plays it over the network.

### Easier configuration and update

Onboard GUI software makes it easy to set IP address and adjust other settings. Remotely updatable as needed.

### Triggered actions

You can program the CM800Si to execute actions based on relay or streamed events — for example, shutting down all projectors at 8pm.

### Secure

Keep out hackers by setting up passwords for network access.

### 2 IR control output

### 3 Serial control input/output

### 4 Intercom input

Connect the CB75 intercom panel or CB85 ceiling mic to build two-way communication with the front office. (Shared with line audio in 2)

### 5 Amplifier line out

### 6 Line audio in 1

### 7 Line audio in 2

Shared with intercom input

### 8 Simple speaker hookup

Captive screw terminals make speaker connection quick and easy.

### 9 Power jack

### 10 General purpose output (GPO) relay

### 11 Network jack

# Configuration

Your CM800Si has several parameters that can be configured to tell it how to communicate with other devices in an ezRoom or Conductor installation. While each installation is different, most of the default parameters will be appropriate.

## 1. Connect to your CM800Si

- Connect your laptop computer's LAN port to the CM800Si LAN port with a CAT-5, or network, cable.



- Change the IPv4 address on your laptop to static address 192.168.1.100. See Appendix A for instructions.
- Open a web browser on your laptop and in the URL field type the IPv4 address 192.168.1.103 and press enter. This is the default static IP address of the CM800Si and will likely be changed when you configure it per the school's IP addressing scheme.
- You will be connected to your CM800Si and see a screen like this:



## 2. Name your CM800Si

The name you choose should contain meaningful information, such as the classroom number, so that a person accessing the device remotely will have appropriate context. Also on this screen you can see the device MAC address and firmware version.

The screenshot shows the FrontRow CM-800i configuration interface. The top navigation bar includes the FrontRow logo, the text "Okay", the status "Running; Amp module present;", the device name "New Device1", and a breadcrumb "Main → Product Name Info". A left sidebar contains a menu with categories: Main, Product View, Product Name/Info, User ID/Password, Configuration, Audio, EtherNet, Serial Ports, Miscellaneous, Command Line, Enter Command, Events, Macro Definitions, Action Definition, Action Viewer, Event Definition, Event Viewer, Utilities, and Save/Restore. The main content area is titled "CM-800i Device Name" and contains a "Custom Device Name" field with the value "New Device1" and a note "(Max length = 63)". Below this is a "Save Setting" button. The next section is "System MAC Address" showing the "MAC Address" as "d8:80:39:71:07:f5". The final section is "System Firmware Information" showing "Control firmware version" as "1.0.0.4" and "Control firmware build" as "December 21, 2015".

## 3. Secure your CM800Si

If the project requires it you can password-protect the CM800Si configuration screens by adding a password that will be needed to make changes to the configuration. The old password is *calypso*. Choose a new one based on the school's guidelines and record the information.

The screenshot shows the FrontRow CM-800i configuration interface for setting a system password. The top navigation bar includes the FrontRow logo, the text "Okay", the status "Running; Amp module present;", the device name "New Device1", and a breadcrumb "Main → User ID/Password". The left sidebar is identical to the previous screenshot. The main content area is titled "System Password Update" and contains a "Set Password for:" dropdown menu set to "admin". Below this are three password input fields: "Old Password:", "New Password:", and "Re-enter New Password:". A note next to the "New Password" field states "Minimum 6 / Maximum 8 characters". A "Save Settings" button is located below the input fields. The next section is "System Security" showing the "Security Level" dropdown menu set to "None". A "Save Setting" button is located below the dropdown menu.

## 4. Set audio parameters

In this section you can make adjustments to the CM800Si audio behavior to customize it for a specific installation. The default values of most parameters will provide optimal performance for most installations, and noted below are where adjustments should be made.

### Output Volume

- **Startup** refers to the volume level when the device is powered up. 0 is lowest and 32 is highest.

### Inputs

- When checked, **Enable** allows the audio signal on that channel to be used as an input to the device.
- **Gain** adjusts the input level of a channel so that when necessary it can be balanced with higher or lower inputs to level match with other channels.
- **Ch1 Line In** This channel would normally be used as an auxiliary input to play audio through speakers connected to the CM800Si. It can accept line or mic level input.
- **Ch2 Line In and Intrcm** This channel would normally be used as the input for a FrontRow intercom microphone. It is shared with the auxiliary input jack that can also play audio through speakers connected to the CM800Si. It can accept line level input. **NOTE:** Only one (Ch2 Line in **OR** Intrcm) can be used at a time. For more information, see section 7 in this guide labeled **Miscellaneous**.

### Other Settings

- **PA volume** sets the output gain for the device. When integrated with a Conductor system, PA Volume specifies the volume level of pages, intercom and bells.
- **PA Restore** specifies the length of time after the paging or bells audio ceases that the other audio inputs are taken out of mute and returned to their previous volume levels and state.

Input	Enabled	Gain	Boost
Ch1	x	36	off
Ch2		4	

Start Vol	PA Vol	PA Restore	Audio-detect	Trigger Level	Silence Time
20	20	2.0 sec	disabled	--	--

- **Vox Level** displays current VOX setting. This is almost always 128; any other value would be assigned by Frontrow Technical Support for special cases.
- **Audio-detect triggering** lets the CM800Si monitor the audio input channels for incoming audio. Events can be defined and triggered by incoming audio from an external PA using the *Audio Begin* and *Audio End* triggers. **Trigger Level** is used to tune how sensitive the trigger will be to the sound level. The higher the value, the louder the audio must be before triggering. **Silence Timeout** is the amount of time a after an Audio begin has triggered, that the audio must have returned to be below the Trigger Level before triggering Audio end. For more information on creating Actions, Events and Triggers, see sections 11 and 12.
- **Save Settings** will save any adjustments made on this screen.
- **Audio Settings** displays the current settings.

## 5. Enable networking

### Device network configuration

- **Automatic IP configuration (DHCP)** causes the CM800Si to request an IP address from a DHCP server; this should be enabled only if the IT department has a DHCP server online and has set up static (fixed) IP address reservations for CM800Si devices; otherwise manually enter the IP address reserved for the device in the **IP Address** field.
- The **IP Address** field displays, and also enables entering, the IP address for the device; while the default address for a CM800Si is 192.168.1.103 You must use the address provided by the IT department and ensure that each device has a unique address.
- The **IP Subnet Mask** is provided by the IT department; if the CM800Si is used as part of a Conductor system the subnet mask must be 255.255.255.0.
- The **Router IP Address** is required when the CM800Si is in a network in which switches determine cross subnet connectivity.
- The **Primary NameServer IP Address** and the **Secondary NameServer IP** Address are optionally provided by the IT department.
- **Save Settings** will save any adjustments made in this section.

The screenshot shows the FrontRow CM-800i web interface. The top navigation bar includes the FrontRow logo, the text 'Okay', and 'Running; Amp module present;'. The main title is 'New Device1'. The left sidebar contains a navigation menu with items like Main, Product View, Configuration, Audio, Ethernet, Serial Ports, etc. The main content area is titled 'Device network configuration' and contains the following fields:

- Automatic IP configuration (DHCP)  (use with caution)
- IP Address: 192.168.1.103
- IP Subnet Mask: 255.255.255.0
- Router IP Address: 192.168.1.1 (recommended)
- Primary NameServer IP Address: 192.168.1.1 (optional)
- Secondary NameServer IP Address: (optional)

Below these fields is a 'Save Settings' button. The next section is 'Device port configuration' with fields for:

- Web Server Port: 80
- Remote Management Port: 7262 (changing this will automatically reset the device)
- Remote Port Idle Timeout (mins): Disabled (dropdown) and 10 (input)

Below this is another 'Save Settings' button. The final section is 'System MAC Address' with the MAC Address field containing 'd8:80:39:71:07:f5'.

## Device port configuration

- **Web Server Port** is the default port used for web services and always set to 80.
- **Remote Management Port** specifies which port controllers are to use to for network commands; while the default is set to 7262 be sure that the CM800Si is set to the same port number as the controller devices.
- **Remote Port Idle Timeout** specifies how long the CM800Si will wait for a network device to respond before terminating the network session (i.e., before giving up); this can be a useful parameter when the network is large and/or congested, but it normally is not enabled.

## 6. Serial Ports

- The **COM Port** menu specifies the COM port number that the parameters on this page apply to; the CM800Si has only one COM port.
- **Baud Rate** specifies the data speed at which the CM800Si should communicate with the attached serial device; while 9600 and 19.2K are typical for projectors, data speeds vary by manufacturer.
- **Stop Bit** is specified by the manufacturer but is typically 1.
- **Parity** is specified by the manufacturer but is typically None.
- **Save Settings** will save any adjustments made in this section.

Okay

Running; Amp module present; Configuration → Serial Ports

New Device 1

Serial Port configuration

COM Port: 1

Baud Rate: 115200

Stop Bits: 1 Bit

Parity: No Parity

Save Settings

COM Port	Baud Rate	Stop Bits	Parity	Mode
1	115200	1	None	RS232

## 7. Miscellaneous

Use this screen to configure the CM800Si to be part of a Conductor system for intercom and/or PA.

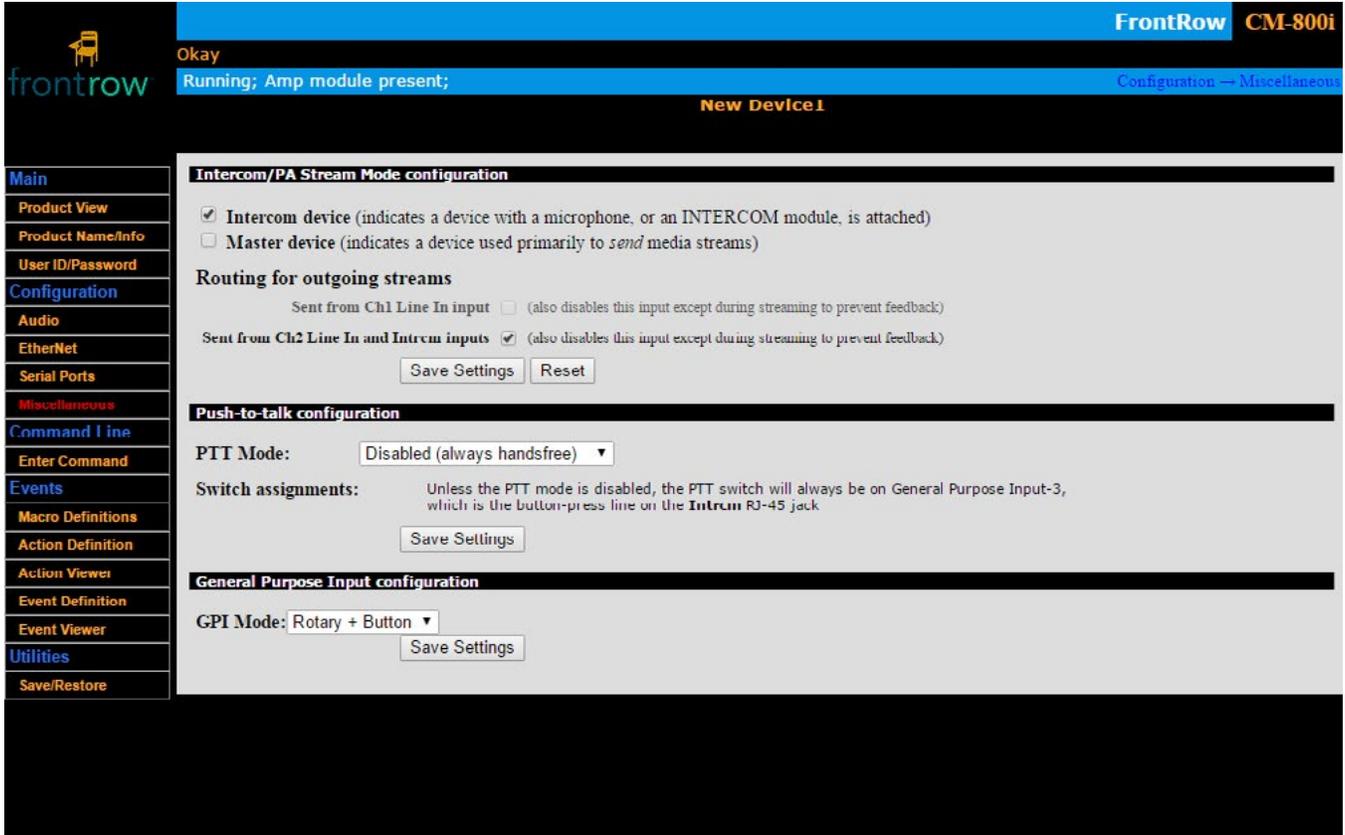
### Intercom/PA Stream Mode configuration

- Checking **Intercom device** tells the Conductor server that this CM800Si is part of the intercom system.

- Checking **Master device** tells the Conductor server that this CM800Si has a microphone and is allowed to initiate pages. This is set only when the CM800Si is part of a Conductor admin station, not when it is simply a part of the intercom system.

### Routing for outgoing streams

- **Sent from Ch2 Line In and Intrcm inputs** should be checked when used as an intercom with a CB75 or CB85 intercom microphone



- Audio can also be streamed to other FrontRow networked audio devices from **Ch1 Line In input** if the **CM800Si** is set as a **Master device**.
- **Save Settings** will save any adjustments made in this section.
- **Reset** will revert any adjustments made in this section before a Save

### Push to talk configuration

- **PPT Mode** refers to a CB75 “push to talk” configuration choices, which are Disabled (always hands-free), After push (initially hands-free), Always (never hands-free).
- **Save Settings** will save any adjustments made in this section.

### General Purpose Input configuration

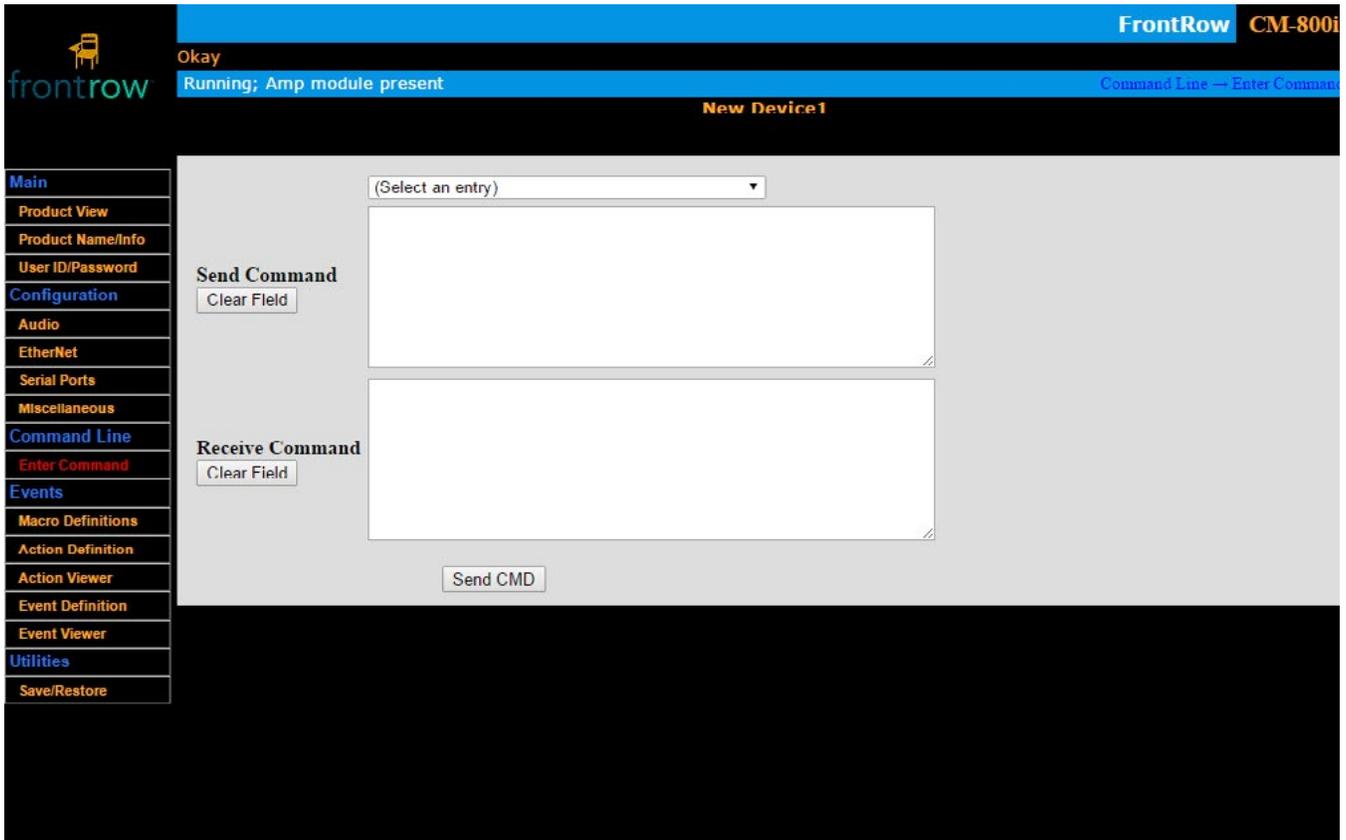
- The RJ45 Intercom jack serves as the GPI interface. **GPI Mode** sets whether the GPI is set to be is used with a CB75 (**Rotary + Button**) or with a TB8 breakout cable used with 3rd party devices (**3 GP Inputs**)
- **Save Settings** will save any adjustment made in this section.

## 8. Enter Command

Use this section to send control commands to a device to verify that it performs the action desired.

Choose the command from the **(Select an entry)** menu and complete it with device and other specific information in the **Send Command** field. Submit it by pressing the **Send CMD** button.

Control feedback requested in the command sent will be displayed in the **Receive Command** field if specified within the control command. If no reply is requested *Command successful* will be displayed; this only means that the CM800Si successfully sent the command. In practice, the most salient feedback is gotten by observing the device itself.



## 9. Macro Definitions

Defining Macros makes deployment of multiple CM800Si devices easier by letting you define Actions using variables to represent the IP addresses of the devices you'll control. This means that your configuration file can be written as a template, with IP addresses explicitly defined in only one place (the Macro Definitions) rather than repeated throughout your Actions. This saves a tremendous amount of labor as you re-use the configuration file to control new devices from room to room.

The screenshot shows the FrontRow CM-800i interface. At the top, there's a blue header with 'FrontRow CM-800i' on the right and 'Okay' on the left. Below that, a status bar shows 'Running; Amp module present;' and 'New Device 1'. The left sidebar has a menu with categories: 'Main' (Product View, Product Name/Info, User ID/Password), 'Configuration' (Audio, EtherNet, Serial Ports, Miscellaneous), 'Command Line' (Enter Command), 'Events' (Macro Definitions, Action Definition, Action Viewer, Event Definition, Event Viewer), and 'Utilities' (Save/Restore). The main content area is titled 'Macro Definitions' and contains a table with three columns: 'Mac#', 'Macro Name', and 'Macro Value Field'. The table has 8 rows. Above and below the table are 'Save Macros' buttons.

Mac#	Macro Name	Macro Value Field
1		
2		
3		
4		
5		
6		
7		
8		

Enter up to 16 macro names and values in the following format:

- **Macro Name:** Any name can be used, but it is most useful if this is an easily recognizable, generic, and concise name for a device type used throughout your installation (e.g., CM3000, Projector, etc.)
- **Macro Value Field:** The value of this variable for this particular installation.  
For NET commands this takes the format: `lipaddress,Pport` (e.g., `I192.168.1.201,P7262`)  
For HTP commands this simply takes the format: `ipaddress` (e.g., `192.168.1.201`)
- **Save Macros** will save any adjustment made in this section

The Macro definitions are included as part of the saved configuration file. When you use this configuration file as a template in similar installations, simply change the value of each defined Macro to the appropriate IP address. For example, in subsequent rooms, we may set the value of 'CM3000' to `I192.168.1.202,P7262; I192.168.1.203,P7262`; and so on.

## 10. Action Definition

Actions are specific instructions that are sent to specific devices. Once defined, you will link them to various Events for execution.

To create or edit an Action

- You can move through various Actions using the buttons at the top of this screen. **(CAUTION: Save your work on the current Action before navigating away or your changes will be lost!)**
- **Edit New Action** Lets you modify the Action definitions for a saved Action.
- **Paste to New Action** Useful for cloning the current Action (displayed in the black strip labeled “Currently editing Action Number xx.”) to another Action. Change the New Action field to the number of the target Action and click the Paste to New Action button. The current Action data will be copied to the target Action. **(CAUTION: This will overwrite the target Action!)**

The screenshot shows the FrontRow CM-800i interface for defining an action. The top bar includes the FrontRow logo and 'CM-800i'. Below the top bar, there's a status bar with 'Okay', 'Running; Amp module present', and 'New Device1'. The main content area is titled 'Action Definition' and shows 'New Action: 1' with buttons for 'Edit New Action' and 'Paste to New Action'. A black bar indicates 'Currently editing Action Number 1' with 'Save Action' and 'Test Action' buttons. The 'Action Description' field is empty. The 'Action Command' section has a dropdown menu set to 'Manual entry' and an 'Examples:' dropdown menu. A large text area for the 'Command:' is present, with 'Save Action' and 'Clear Action' buttons at the bottom.

- Edit Previous Action: Moves to the previous Action record
- Edit Next Action: Moves to the next Action record.
- Edit Next Empty Action: Moves to a new undefined Action record.
- Edit Next Defined Action: Moves to the next defined Action (skipping over any undefined records)
- Give the Action a brief, useful description (e.g., “Net Mute”)
- Define the Action using Action Command:
  - Select a template for the Action from the drop-down list:
  - NET Command — For commands to be sent to IP-addressable devices over your network

- HTP Command — To initiate an intercom call via a FrontRow Conductor™ server to a FrontRow Conductor Head end. *For schools using the Conductor™ IP paging and bell system only.*
- Serial Transmit — For commands to be sent directly to serial devices using RS232 protocol
- IR-Out Universal Command — For commands to be sent directly to devices that can only be controlled via infrared remote
- Alarm Command — Initiates a beep with a short delay.
- NOP Command — Effectively deletes an Action that was previously defined.
- Use the syntax template that appears to build the specific Action you want
- For complete programming guidance, refer to the Calypso Action Control Language (CACL) manual under the Guides and Resources section of the FrontRow website [gofrontrow.com/guides-resources](http://gofrontrow.com/guides-resources).
- If the CM800Si has been physically installed, you can test the action you created by clicking the Test Action button. Note that you can also test Actions via the Action Viewer by clicking on the check mark to the right of each Action. Alternatively, the Enter Command screen can be a useful tool for testing and troubleshooting actions.

## 11. Action Viewer

Shows a list of defined actions. Navigate to previously defined Actions via the **Action Viewer**. Test Actions via the Action Viewer by clicking on the check mark to the right of each Action.

FrontRow CM-800i

Okay

Running; Amp module present; Events → Action Viewer

New Device1

Act#	Action Description	Command	Test
1	Power On	#COM1[T2,"BEEF0306002AD3010000600000"..	✓
2	Power Off	#COM1[I 2,"BEEF030600BAD2010000600100"..	✓
3	HDMI 1	#COM1[T2,"BEEF030600FED2010000200000"..	✓
4	HDMI 2	#COM1[T2,"BEEF0306003ED0010000200400"..	✓
5	VGA1	#COM1[T2,"BEEF0306006ED3010000200100"..	✓

Number of defined actions: 5 / 32

Main

- Product View
- Product Name/Info
- User ID/Password
- Configuration
- Audio
- EtherNet
- Serial Ports
- Miscellaneous
- Command Line
- Enter Command
- Events
- Macro Definitions
- Action Definition
- Action Viewer
- Event Definition
- Event Viewer
- Utilities
- Save/Restore

## 12. Event Definition

With your collection of discrete Actions defined, you can now specify what Events will cause one or more of those Actions to be executed. Events can be triggered in a variety of ways, via Encore and Teacher Edition software, FrontRow Control panels, or from a push button (CB75 microphone or CB50).

FrontRow CM-800i

Okay

Running; Amp module present;

Events — Event Definition

New Device 1

New Event: 1 Edit New Event Paste to New Event  
(This overwrites any previous settings of New Event.)

Edit Previous Event Edit Next Event Edit Next Empty Event Edit Next Defined Event

Currently editing Event Number 1

Save Event Test Event

Event Description

Event Trigger: No Trigger

How to run the defined actions:  All (in parallel)  Each (in order)  One per call (in sequence)

Current Event Actions

0 (46)	Act#	Action Desc	Action Command
+		new	

Save Event Clear Event

To create or edit an event

- You can move through various Events using the buttons at the top of this screen. **(CAUTION: Save your work on the current Event before navigating away or your changes will be lost!)**
- Edit New Event: Lets you modify existing Events or create new Events. Enter the number of an existing Event or new Event to edit.
- Paste to New Event: Useful for cloning the current Event (displayed in the black strip labeled “Currently editing Event Number xx.”) to another Event. Change the New Event field to the number of the target Event and click the Paste to New Event button. The current Event data will be copied to the target Event. **(CAUTION: This will overwrite the target Event!)**
- Edit Previous Event: Moves to the previous Event record
- Edit Next Event: Moves to the next Event record.
- Edit Next Empty Event: Moves to a new undefined Event record.
- Edit Next Defined Event: Moves to the next defined Event (skipping over any undefined records)
- Give the Event a useful description (e.g., “Mute”)
- To have the Event initiated by a by a button press (e.g. CB75 push-to-talk intercom microphone), click the Trigger dropdown and select Input 3 open.

- You can have multiple Events with the same input trigger. When that defined trigger is detected by the CM800Si all the matching Events will be executed in no particular order. For each such Event, the Actions for the Event will execute according to that Event's mode setting (see below); however, Actions for different Events may be intermingled with each other. If you care about the order in which Actions happen, put them all in a single Event and set the mode to Each.
- Select the mode in which you would like to run the defined Actions:
  - **All**: the CM800Si will attempt to execute all Actions for that event simultaneously, but in no particular order (e.g., Action 2 and Action 1 and Action 3...)
  - **Each**: the CM800Si will execute all Actions in the order listed (e.g., Action 1, then Action 2, then Action 3...) This is useful when the order matters to you; for example, turning off a projector before retracting a projector screen.
  - **One per call**: the CM800Si will treat the actions as a loop, executing the next Action in the series each time the Event is initiated (e.g., Action 1 on the first button press, Action 2 on the second button press, Action 1 on the third button press, etc.). This is useful for toggle functions like power.
- Assign or remove one or more Actions to this Event using the list under Current Event Actions:
  - Click the + button and select the desired action from the list that appears below (Note that the order of the Actions in the list matters if you have chosen to run these in **Each** or **One per Call** mode.)
  - To remove an Action, click the - button next to the action you no longer want to run
- If the CM800Si has been physically installed, you can test the Event you created by clicking the Test Event button. Note that you can also test Events via the Event Viewer by clicking on the check mark to the right of each Event.
- Be sure to Save the Event before moving to another section

### 13. Event Viewer

Shows a list of defined Events. Navigate to previously defined Events via the **Event Viewer**. Test Events via the Event Viewer by clicking on the check mark to the right of each Event.

FrontRow CM-800i

Okay

Running: Amp module present; New Device1

Events — Event Viewer

Evt#	Event Description	Trigger	Actions	Test
1	Power ON	-	Power On	<input checked="" type="checkbox"/>
2	Power OFF	-	Power Off	<input checked="" type="checkbox"/>
3	Power + HDMI1	-	Power On, HDMI 1	<input checked="" type="checkbox"/>
4	Intercom	Input-3 open	Intercom	<input checked="" type="checkbox"/>
5	-Event 5-	-		<input checked="" type="checkbox"/>
6	-Event 6-	-		<input checked="" type="checkbox"/>
7	-Event 7-			<input checked="" type="checkbox"/>
8	-Event 8-	-		<input checked="" type="checkbox"/>
9	-Event 9-	-		<input checked="" type="checkbox"/>
10	-Event 10-	-		<input checked="" type="checkbox"/>

\*\* indicates trigger inactive  
^ indicates trigger error

Main

- Product View
- Product Name/Info
- User ID/Password
- Configuration
  - Audio
  - EtherNet
  - Serial Ports
  - Miscellaneous
- Command Line
  - Enter Command
- Events
  - Macro Definitions
  - Action Definition
  - Action Viewer
  - Event Definition
  - Event Viewer
- Utilities
  - Save/Restore

## 14. Save / Restore

Use this window to either load an existing configuration file onto your CM800Si or save the current configuration to a file on your computer for re-use as a template for other CM800Si units

To load an existing configuration file onto your CM800Si:

- Select Browse and locate your Base Configuration File for this CM800Si
- Check the check box if you want the IP address contained in the loaded configuration file to overwrite the IP address on your connected CM800Si unit.
- Click Load

To save your current configuration file to use as a template for other CM800Si:

- Select Save/Restore
- Click Save
- To save your configuration file to a specific folder, right-click on the Save button and choose Save Target As... or Save Link As... depending on your browser

The screenshot displays the FrontRow CM-800i web interface. The top navigation bar includes the 'frontrow' logo, the text 'Okay', the status 'Running: Amp module present;', the device name 'New Device1', and the title 'FrontRow CM-800i'. A secondary bar shows 'Utilities → Save/Restore'. A left-hand sidebar contains a menu with categories: 'Main' (Product View, Product Name/Info, User ID/Password), 'Configuration' (Audio, EtherNet, Serial Ports, Miscellaneous), 'Command Line' (Enter Command), 'Events' (Macro Definitions, Action Definition, Action Viewer, Event Definition, Event Viewer), and 'Utilities' (Save/Restore). The main content area is titled 'Load configuration' and features a 'Configuration Filename' field with a 'Choose File' button and the text 'No file chosen'. Below this is a checkbox labeled 'Allow IP Address to be overwritten (else the IP Address setting in the configuration file is ignored)' and a 'Load' button. A second section titled 'Save configuration' contains the text 'Download the Configuration file' and a 'Save' button.

# Appendix A: Network Settings

This section describes how to change the setting of your computer's wired network adapter to use a fixed (or static) IP address rather than an automatically assigned address through DHCP. The screen shots for this procedure were taken from a computer running Windows 7, and while other versions and other operating systems will look different, the general procedure is identical. The goal is to get to the screen where you can change your network adapter from "Obtain an IP address automatically" (referred to as "DHCP") to "Use the following IP address" (referred to as "static").

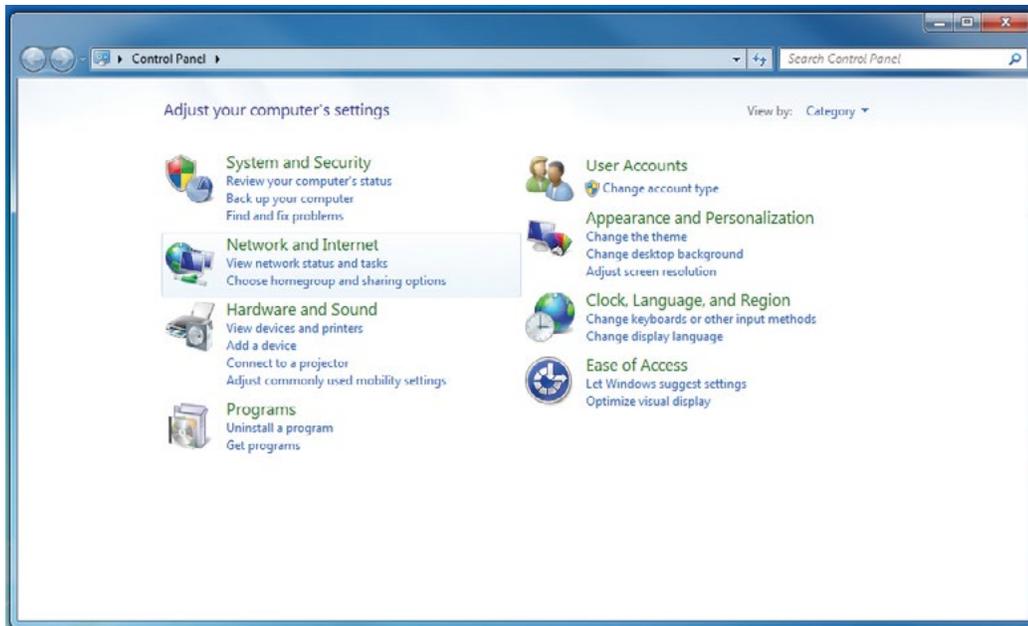
1. Click on the **Windows Start** button located on the lower left portion of your screen.



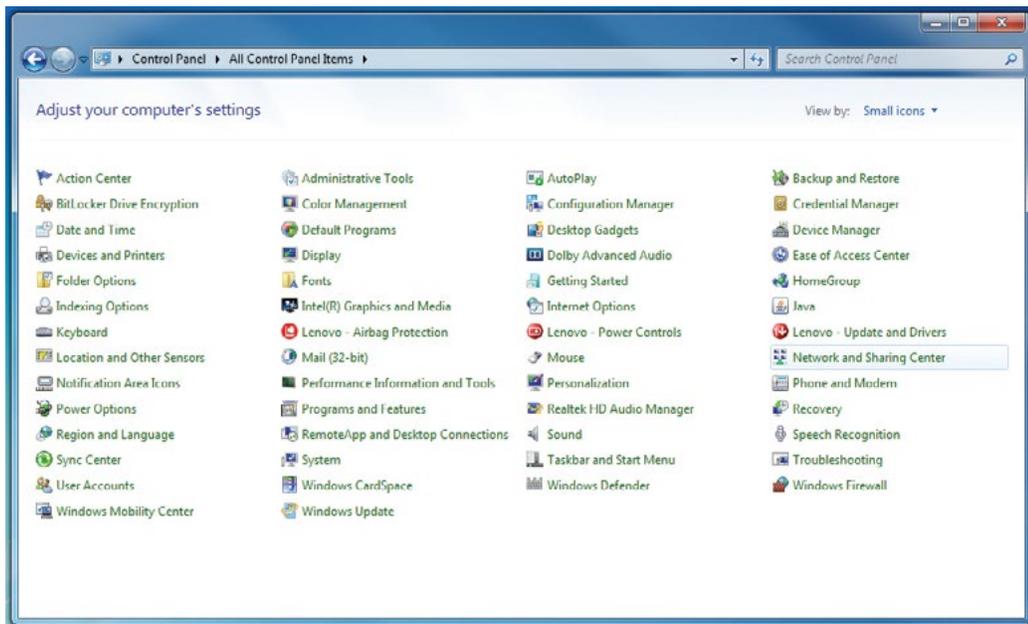
2. Click on **Control Panel**.



3. Click on **View network status and tasks**.



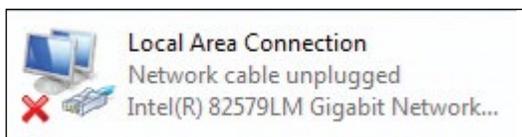
Note that your computer may be set up differently and you may see an alternate view, such as that shown below, in which case select **Network and Sharing Center**.



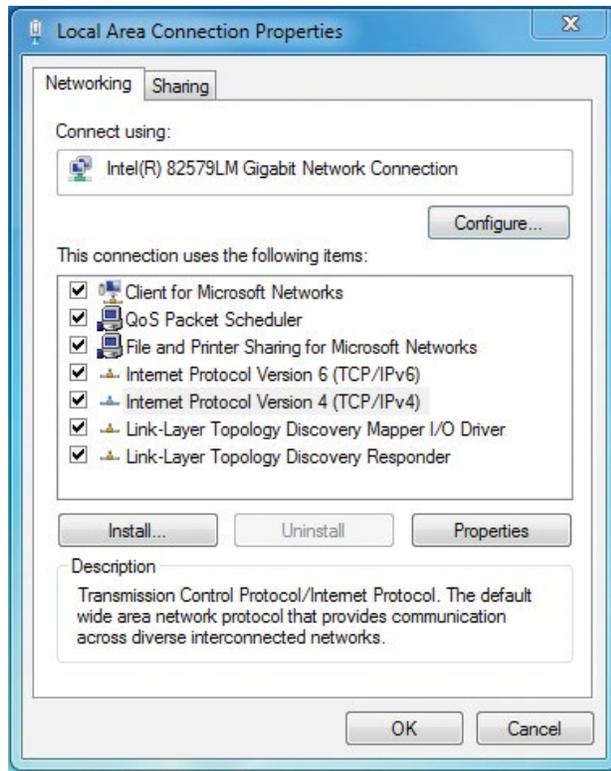
4. Click on **Change adapter settings**. Note that your computer may display different wording such as **Manage Network Connections**.



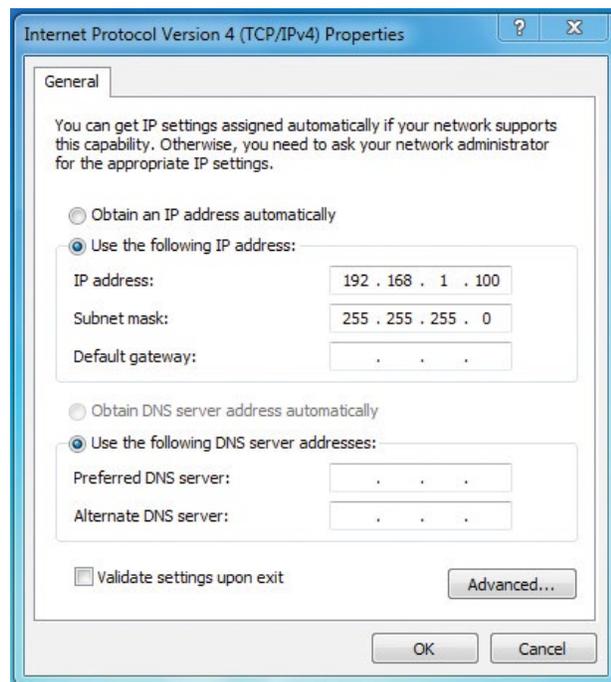
5. Double click on **Local Area Connection**.



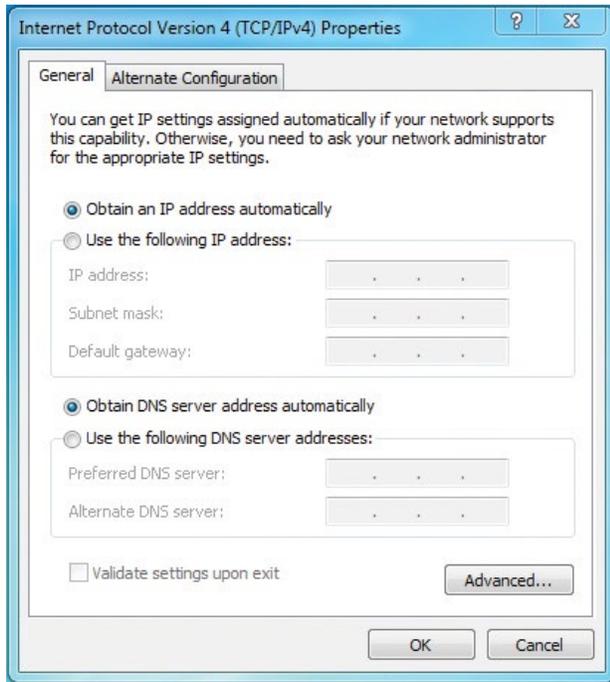
6. Select **Internet Protocol Version 4** then click the **Properties** button.



7. Select **Use the following IP address**. In the **IP address** field enter *192.168.1.100*. This is the static IP address to use when connecting to FrontRow networked devices. Click into the **Subnet mask** field; it may automatically fill in *255.255.255.0* but if not type it in. Click the **OK** button and close each of the pop-ups.



8. To return your computer to its original condition where it uses DHCP, follow the same steps described above but select **Obtain an IP address automatically**, press the **OK** button and close each popup as before.





**frontrow**<sup>™</sup>  
your school. connected.

**Installer Assistance:** [www.gofrontrow.com](http://www.gofrontrow.com)

**USA/Global**

1690 Corporate Circle  
Petaluma, CA 94954-6712  
United States  
toll-free: 800.227.0735  
tel: 707.769.1110  
fax: 707.781.9415  
[www.gofrontrow.com](http://www.gofrontrow.com)

**Canada**

6950 Creditview Road,  
Unit 1  
Mississauga, ON L5N 0A6  
Canada  
toll-free: 800.340.9894  
tel: 905.461.5300  
[www.gofrontrow.com](http://www.gofrontrow.com)

**Australia**

629 Nudgee Road  
Nundah QLD 4012  
Australia  
tel: 1 800 746 642  
fax: 1300 737 983  
[www.gofrontrow.com](http://www.gofrontrow.com)

**Scandinavia**

Kongebakken 9  
2765 Smørum  
Denmark  
tel: +45 3917 7101  
fax: +45 3927 7900  
[www.gofrontrow.com](http://www.gofrontrow.com)