

Setup Utility Guide

ADX-0808 and ADX-1616 Audio Matrix Pre-amp Systems



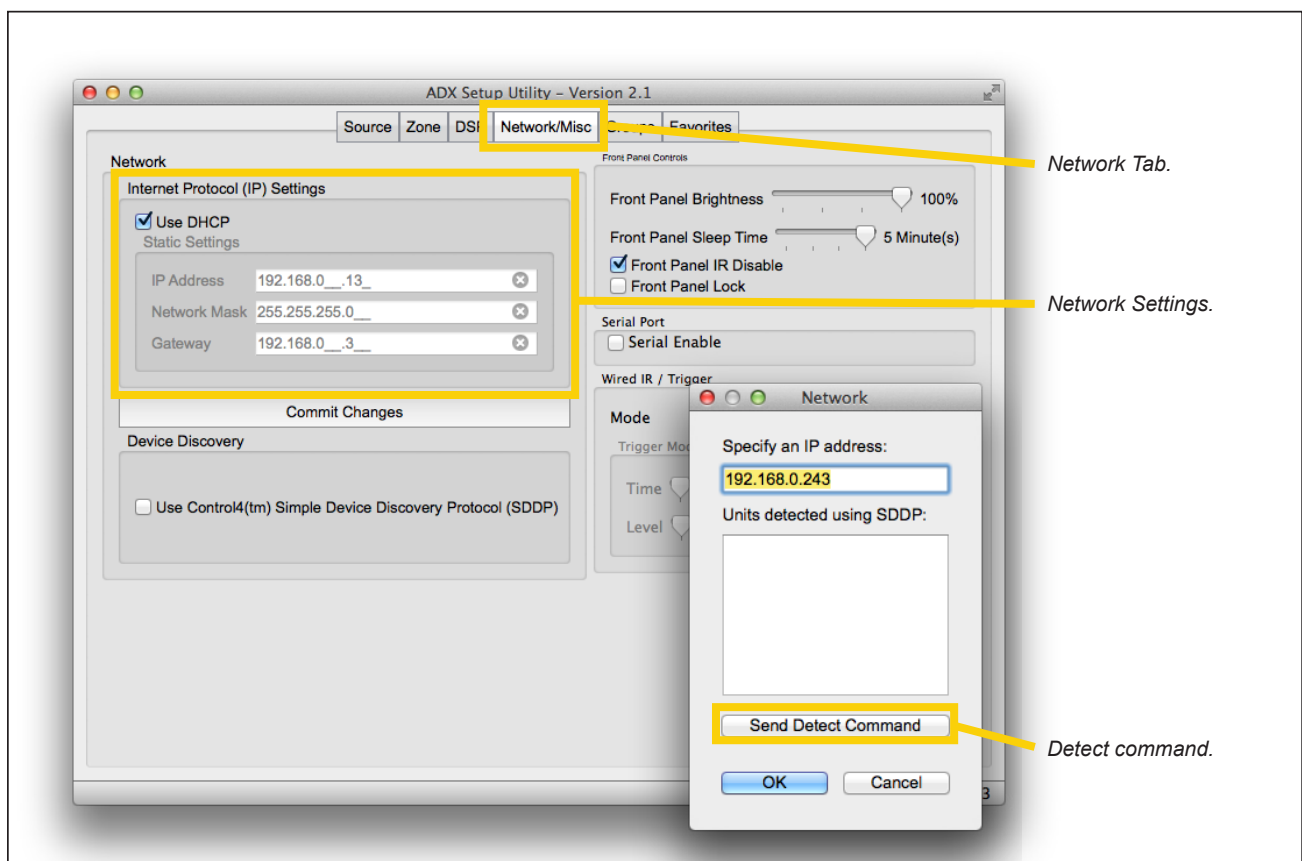
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Configuration Using the Setup Utility

The Setup Utility is the most efficient way to set up ADX advanced features (using *Mac or PC), and provides an easy way to save a copy of each configuration to edit off-site, or for backup. The following settings can only be configured using Ethernet/serial commands or the Setup Utility: DSP (EQ), Network Settings, and Groups. Some of the ADX features are not compatible with third party controllers that are designed to perform similar functions.

Setup Tips:

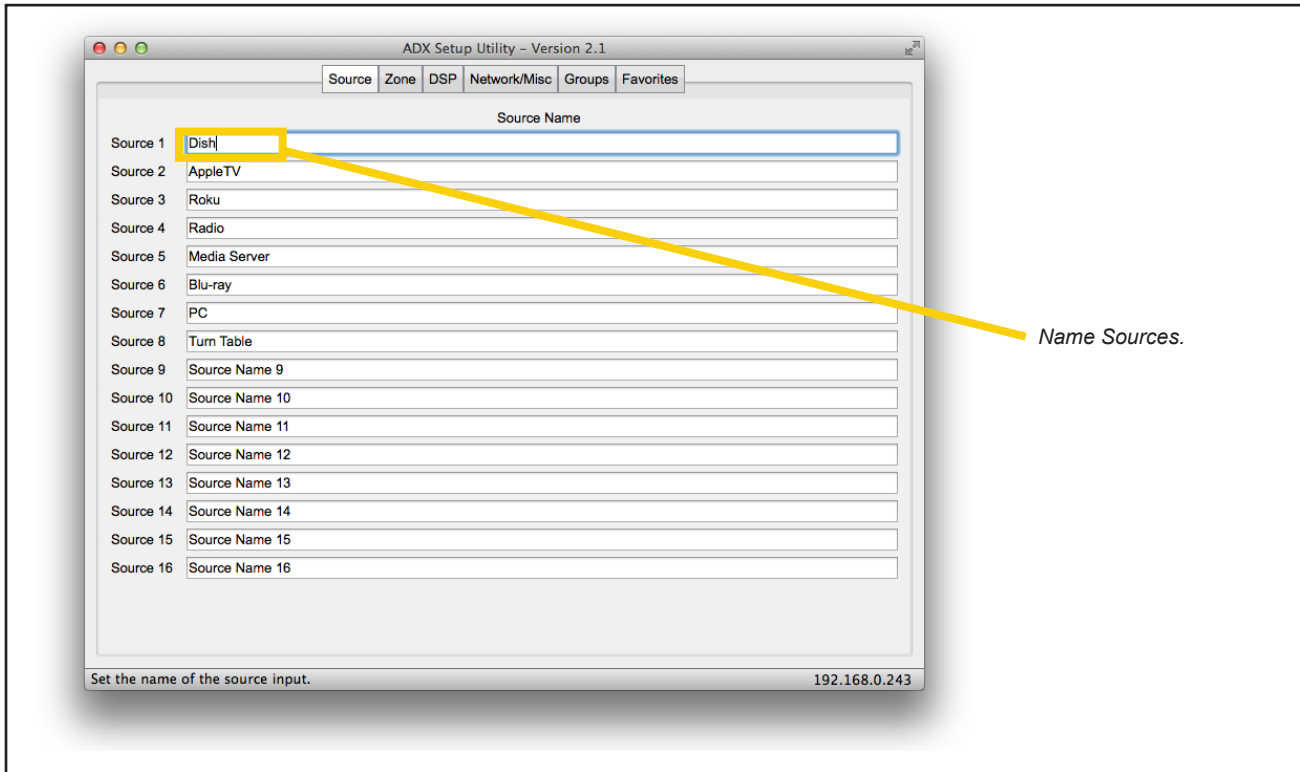
1. **Select Programming Mode:** Select the mode you will be using for your ADX configuration. There are three options:
 - File Mode - (default) requires a USB drive to save and transfer the setup file to the ADX via the back panel USB jack.
 - Serial Mode - requires a direct serial port connection.
 - Ethernet Mode - requires a connection via a network or a direct Ethernet connection.
2. **Create A New ADX Configuration:** If you are setting up a new ADX, start with the blank configuration file.
3. **Modify An Existing Configuration:** If you are modifying an existing setup, import the current setup file.



Network Tab and Connection Menu

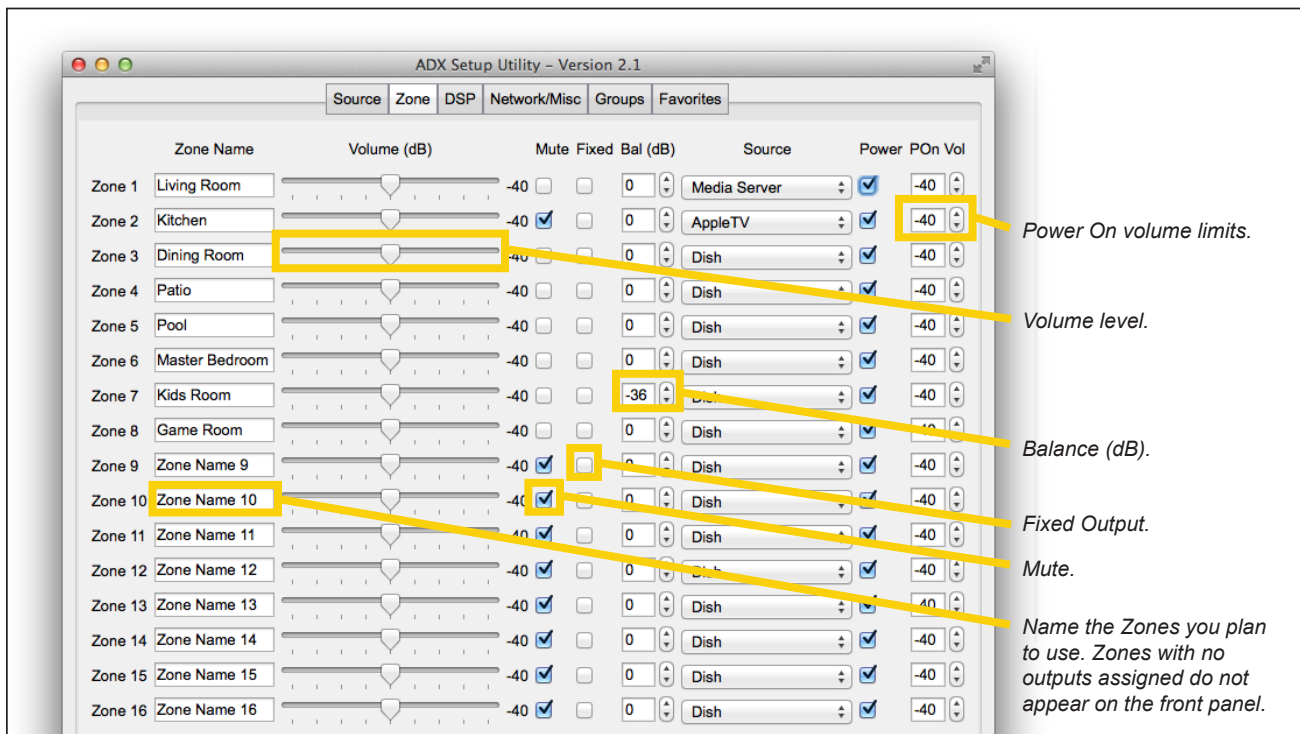
**All examples show setup using a Mac for configuration.*

Source Setup Tab - Type a name for each source connected to the ADX.



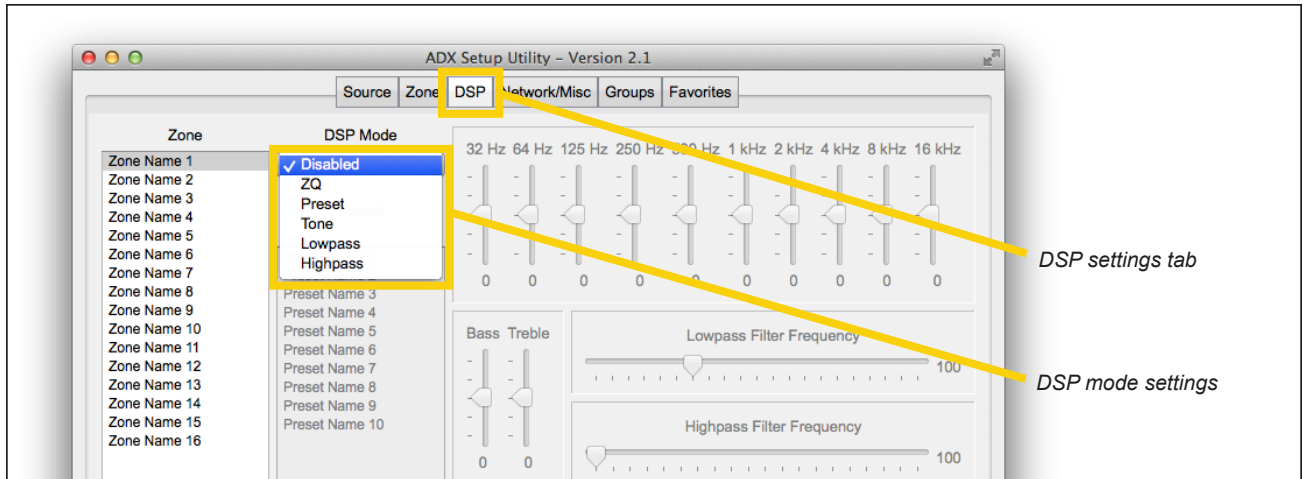
Source Tab

Zone Setup Tab - Name zones, set volume levels, mute, fixed outputs, balance, and Power On volume levels. Some settings on this tab are permanent (e.g. balance, fixed volume and maximum volume levels, etc.), and some are intended for temporary convenience while setting up levels (e.g. source, mute, power on volume, etc.). Set Power On levels to ensure moderate volume levels when an output is powered on (limits do not apply after mute).



Zone Tab

DSP Tab - The Digital Signal Processing tab has five DSP modes available, to be used individually and/or as a multi-band EQ. DSP modes include ZQ, tone, presets, highpass, and lowpass. Highpass and lowpass filters are intended for passive subwoofers and full range speakers.



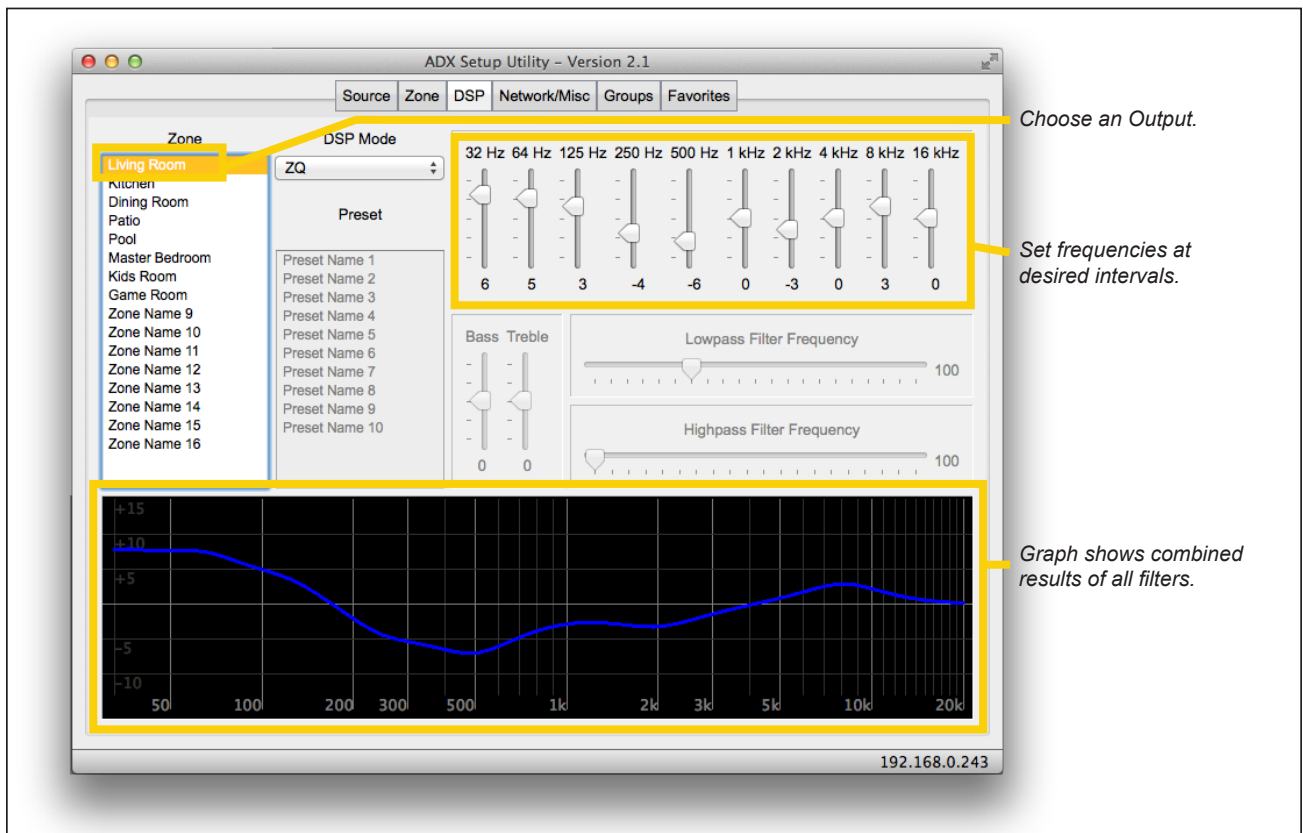
DSP settings tab

DSP mode settings

DSP Tab

Using ZQ - This is accomplished using the following steps:

1. Select a zone.
2. Select ZQ Mode from the DSP Mode dropdown menu.
3. Make desired adjustments to EQ sliders, settings are saved automatically.



Choose an Output.

Set frequencies at desired intervals.

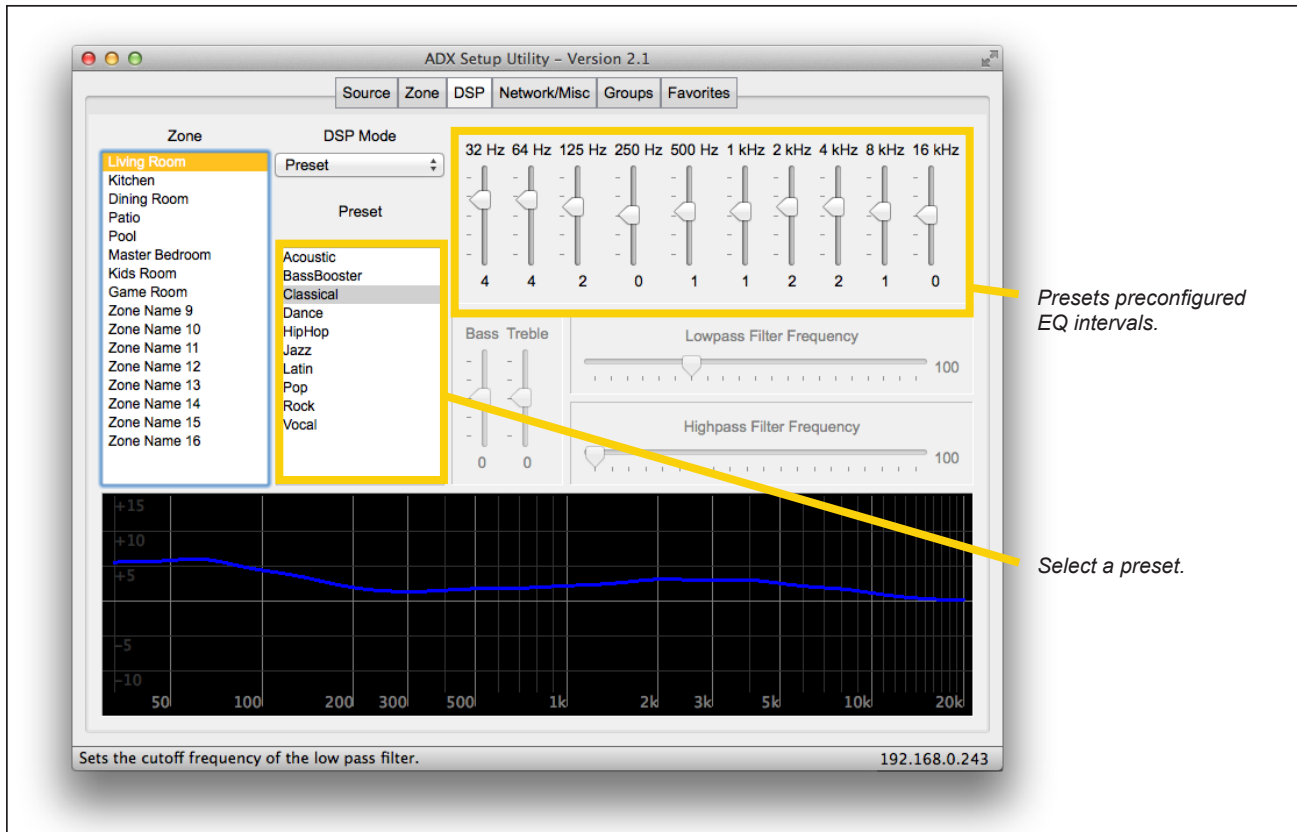
Graph shows combined results of all filters.

ZQ Mode

EQ Presets - The ADX includes 10 built-in “Global” EQ presets, which can be used by any zone. By default, all 10 EQ presets are flat and require adjustment for use. The ADX EQ Preset allows you to name all 10 presets and adjust band settings for each.

Modify and Store EQ Presets

1. Select a zone.
2. Select Preset from the DSP Mode dropdown menu.
3. Double-click on *Preset Name x*, then name the preset.
4. Make any desired adjustments to EQ sliders for that preset, those settings are saved automatically. Repeat steps 2-4 for the remaining Presets.



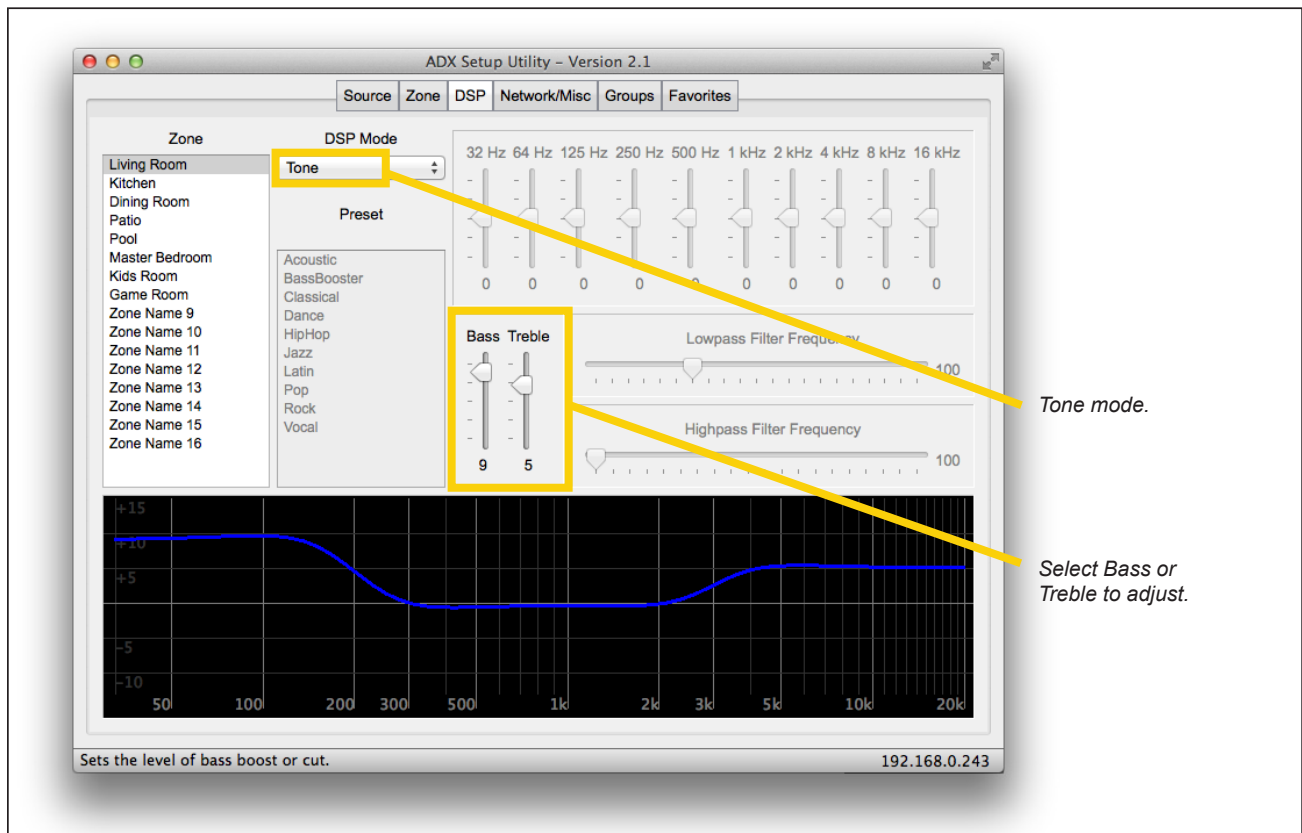
Preset mode

EQ/Tone Disabled

If no EQ or tone mode is desired, select Disabled from the DSP Mode dropdown. All levels will be flat, but previous settings can be recalled by switching back to one of the filter modes.

Bass & Treble (Tone)

1. Select the zone you wish to adjust.
2. Select **Tone** from the DSP Mode dropdown menu.
3. Make any desired bass and treble adjustments.



Tone mode

Lowpass and Highpass Filters

Used to turn any zone output into a dedicated lowpass output for a subwoofer, or highpass for full range stereo speakers. Additionally, a lowpass zone output can be grouped with a highpass zone output to create a single 2.1 audio zone. IR and serial group commands (source, volume, and mute) can then be used to control both outputs (lowpass and highpass) together. See page 10 for instructions on how to set up a zone group.

How to set up a lowpass or highpass zone output:

1. On the DSP tab, select a zone you wish to designate as a lowpass or highpass output. If you are grouping a lowpass zone with a highpass zone, it is recommended to name your zones in pairs for clarity. For example, if Zone 1 is labeled "Master BR", Zone 2 should be labeled "Master BR Sub", and so on.
2. On the Zone menu, select a zone for lowpass or highpass.
3. Select **Lowpass or Highpass** from the DSP Mode dropdown menu.
4. Make any desired changes to the Crossover Frequency. Range of adjustment for lowpass is 40Hz to 240Hz and for highpass it is 1 Hz to 20,000 Hz. Set the cross-over points of a 2.1 zone at the same frequency (i.e. lowpass at 100 Hz and highpass at 100 Hz) for full coverage of frequencies.
5. On the Groups tab, group the lowpass zone output and the highpass zone output

ADX Setup Utility - Version 2.1

Source Zone DSP Network/Misc Groups Favorites

Zone: Living Room, Kitchen, Dining Room, Patio, Pool, Master Bedroom, Kids Room, Game Room, Zone Name 9, Zone Name 10, Zone Name 11, Zone Name 12, Zone Name 13, Zone Name 14, Zone Name 15, Zone Name 16

DSP Mode: Highpass

Preset: Acoustic, BassBooster, Classical, Dance, HipHop, Jazz, Latin, Pop, Rock, Vocal

32 Hz 64 Hz 125 Hz 250 Hz 500 Hz 1 kHz 2 kHz 4 kHz 8 kHz 16 kHz

Bass Treble: 9 5

Lowpass Filter Frequency: 100

Highpass Filter Frequency: 100

Highpass mode.

Adjust filter frequency.

Highpass filter.

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Highpass mode

ADX Setup Utility - Version 2.1

Source Zone DSP Network/Misc Groups Favorites

Zone: Living Room, Kitchen, Dining Room, Patio, Pool, Master Bedroom, Kids Room, Game Room, Zone Name 9, Zone Name 10, Zone Name 11, Zone Name 12, Zone Name 13, Zone Name 14, Zone Name 15, Zone Name 16

DSP Mode: Lowpass

Preset: Acoustic, BassBooster, Classical, Dance, HipHop, Jazz, Latin, Pop, Rock, Vocal

32 Hz 64 Hz 125 Hz 250 Hz 500 Hz 1 kHz 2 kHz 4 kHz 8 kHz 16 kHz

Bass Treble: 9 5

Lowpass Filter Frequency: 100

Highpass Filter Frequency: 100

Lowpass mode.

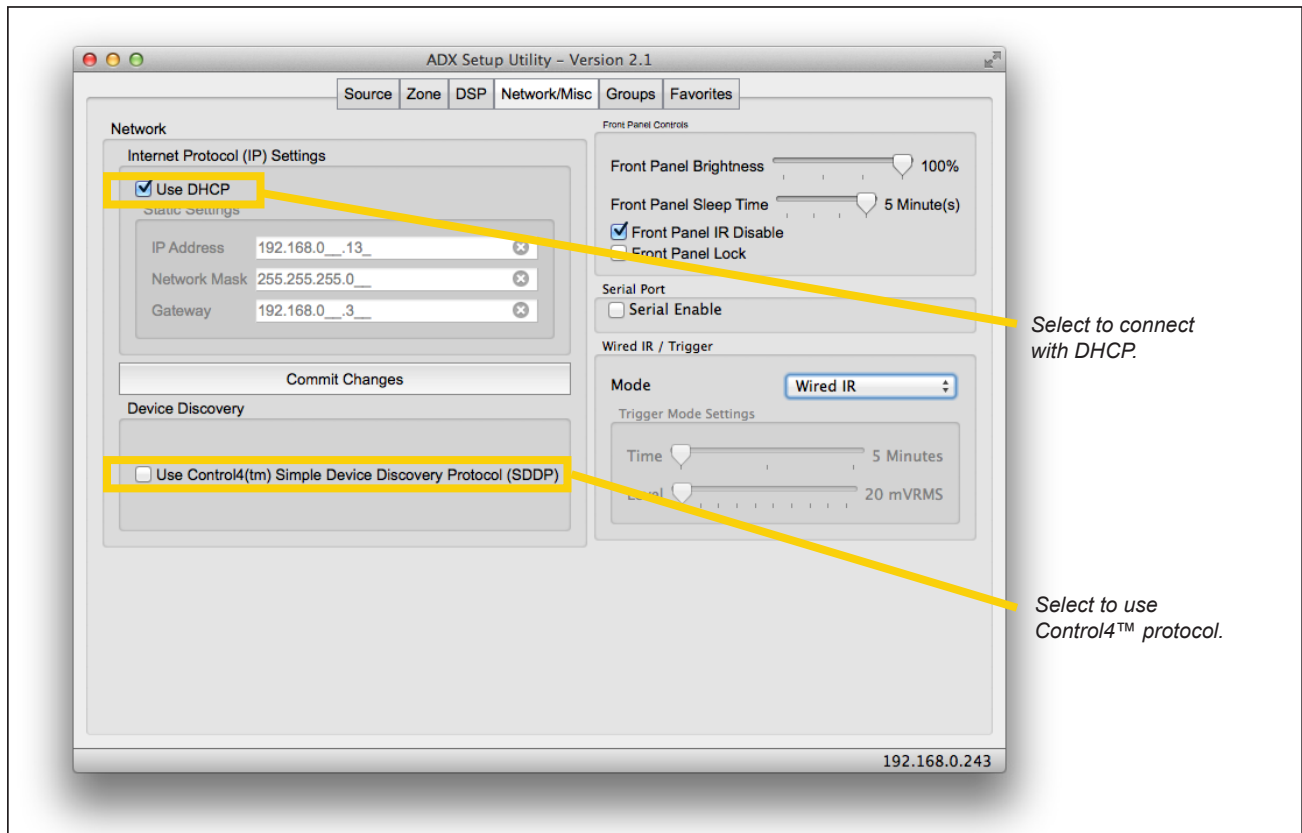
Adjust filter frequency.

Lowpass filter.

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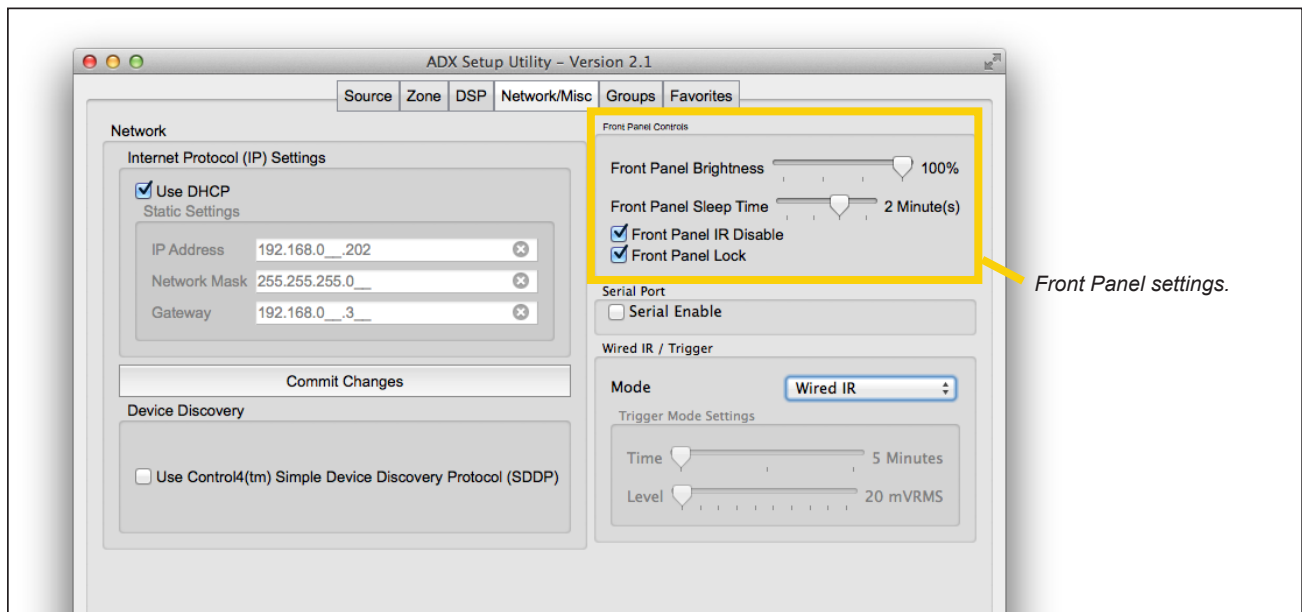
Lowpass mode

Network/Misc Tab - This tab displays the status of the network, the native IP address, Network Mask, and gateway. It is often convenient to turn DHCP on to connect automatically to a DHCP network for initial setup. Once the ADX is installed, use a static IP address and turn DHCP off. Use Simple Device Discovery Protocol (SDDP) when using Control4 products to connect to the ADX.



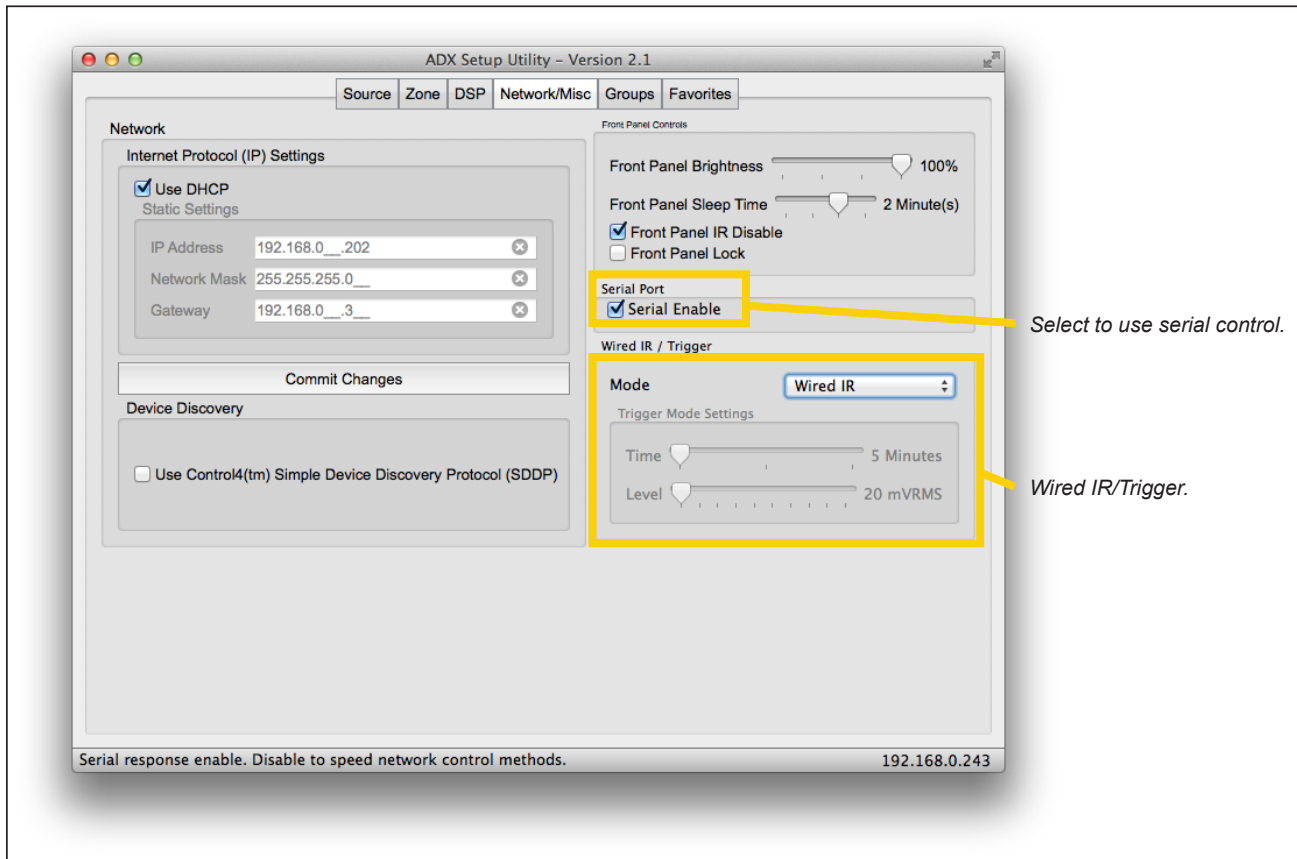
Networks and Misc Tab

Set Front Panel Brightness (the brightness of the keys and front panel display) by adjusting the slider (25, 50, 75, or 100%). The Sleep Timer slider (0,1,2, or 5 minutes) indicates when to turn off the front display after the front panel keys and knob have not been used for a period of time. Set the Front Panel IR On/Off to disable or enable front panel IR sensor (If not required for control, leave it off to avoid issues with sunlight or other interference). Set the Front Panel Lock to disable or enable the front panel controls (disable if IR is not required for daily use).



Follow the instructions for your Control4, RTI, URC, or other controller to connect to the ADX using the serial setting. (A file containing the ADX serial commands can be downloaded from the Audio Authority website, www.audioauthority.com/adx_tips).

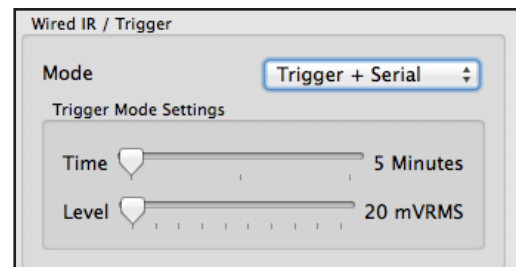
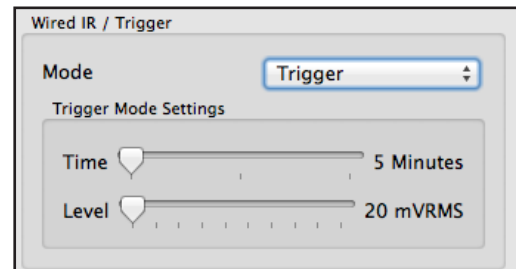
- At idle, the ADX checks for received serial or telnet data every 200 ms. Once data has been received, it checks every 1 ms to handle rapid groups of commands and macros. After 100 ms of inactivity, it returns to checking at intervals of 200 ms.
- The ADX telnet server allows two clients to be connected at one time. Each client connection has a time out of 15 minutes; if a client crashes and does not close the connection properly (sending an EOF) that connection remains busy until it times out.



Wired IR/Trigger

The ADX enters standby mode when it senses voltage below the set threshold on its Trigger input; it wakes from standby when it receives voltage input above the threshold. The trigger port on the ADX allow equipment such as A-V receivers or power management devices to put the ADX in standby to conserve energy. To use the System Trigger:

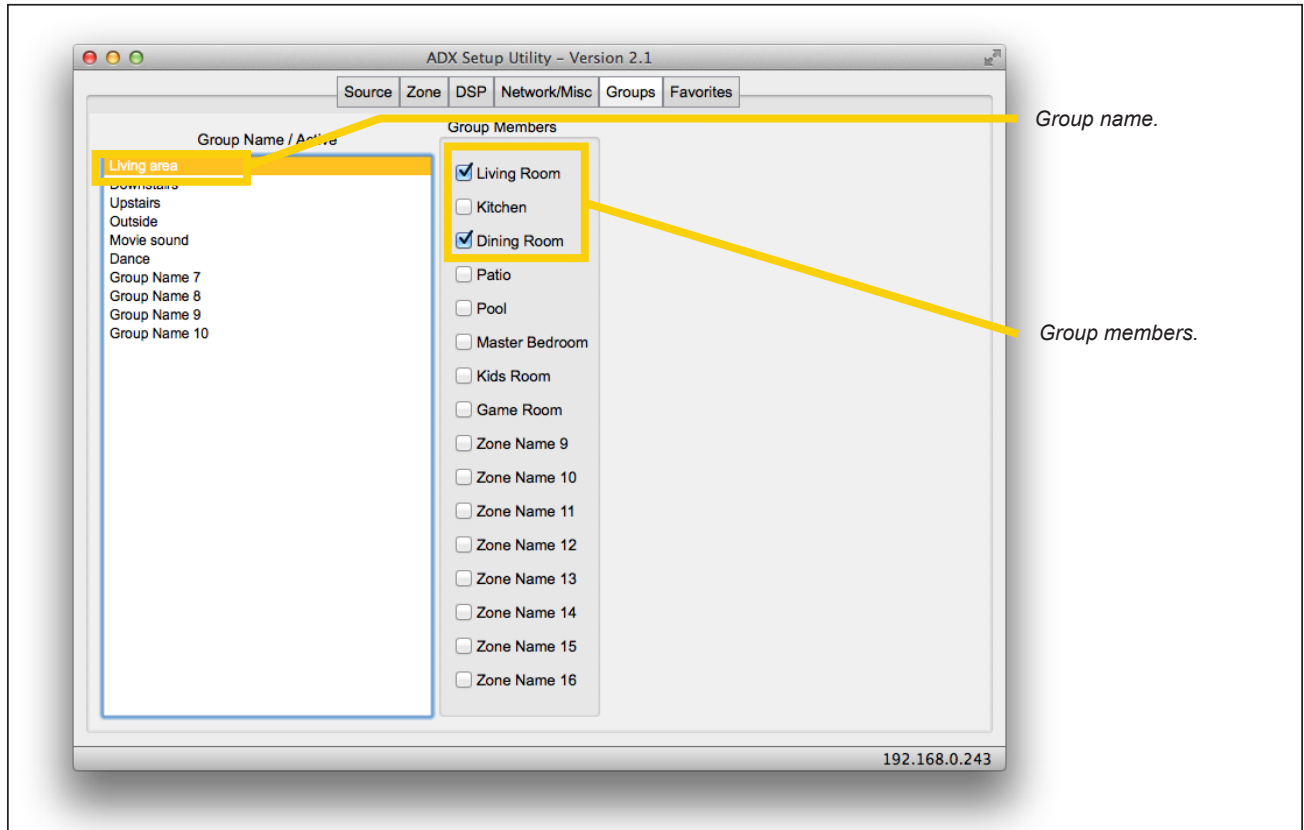
1. Enable "Trigger" via Mode dropdown menu, use Trigger+Serial for serial command (see website). Select the time out (5, 10, or 15 minutes) and voltage level (20 - 200mVRMS).
2. Make connections to the ADX IR Control Input.
3. Power the ADX, then test the power management system.
4. A high-to-low voltage transition on the trigger input puts the ADX into standby mode; a low-to-high voltage transition wakes the unit from standby.



Groups Tab - Groups are a collection of Zones that can be controlled simultaneously using Group volume and Group switching commands, etc. When several Zones are members of a Group, you can still adjust their settings individually, but when a Group command is issued, all member Zones respond. Up to 10 Groups can be created per ADX. Group settings include Group naming and output Zone members. You can also create 2.1 audio zones (a highpass and a lowpass zone output joined together) using the group feature (*More on lowpass/highpass mode see page 6*).

To set up a group, use the following steps:

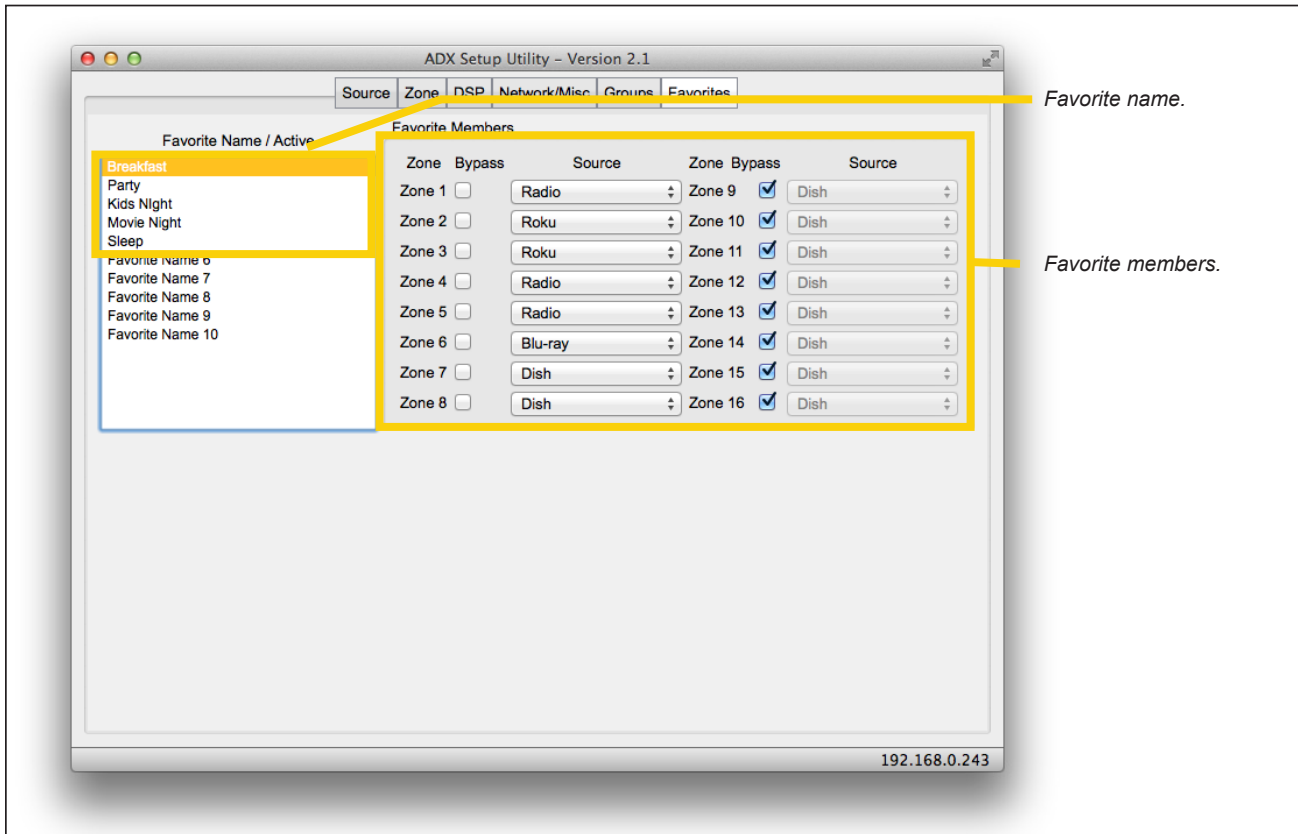
1. Label groups on the Group/Active Naming menu.
2. Select the Group name from the "Favorite Name/Active" list.
3. Select Group Members (zones).
4. Repeat this step for all other zone/group combinations desired.



Groups Tab

Favorites Tab - Set up audio “scenes” such as party, breakfast, movie night, etc. Each scene is a list of zone/source combinations. All favorites can be recalled with a dedicated serial or IR command, or from the front panel of the ADX. This tab allows you to quickly setup zone & source combination audio “scenes”. All favorites can then be recalled with a dedicated serial or IR command or from the front panel of the ADX. To set up a favorite, use the following steps:

1. Label your favorites on the Favorite Name/Active Naming menu.
2. Select a favorite name from the “Favorite Name/Active” list.
3. Select Bypass to exclude any zones. Select a source to include a source/zone combination into a favorite scene.
4. Repeat this step for all other source/zone combinations you desire to be included in the favorite scene.
5. Follow steps 2-4 above for all additional favorites.



Favorites Tab



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