

# A360 display



# AVIOM

## User Guide

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**A360**  
Personal Mixer

**PRO 16**

**PRO 16<sup>e</sup>**

**A-NET**

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# A360 Display

*A360 Display™ is an iOS app that runs on your iOS device and communicates with a WiFi router connected to the Ethernet network port on the rear panel of the D800 or D800-Dante A-Net Distributor. A360 Display enhances the user interface of the A360 Personal Mixer with channel names and user-selectable views that show the volume levels, stereo placement, and metering information for every channel in your mix.*



## Feature Overview

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- Expands the A360 user interface with a graphical view of every channel in the mix
- Provides an overview of all channel mix settings for volume level, stereo placement, tone and reverb
- Shows real-time metering for each mix channel and the mix as a whole
- Allows users to enter custom names for A360 mix channels and more

A360 Display consists of six main views that expand the A360 Personal Mixer's front panel user interface:

- Volume View
- Meter View
- Stereo Placement View
- Tone & Reverb View
- Master View
- Channel Names View

To use A360 Display you need a compatible iOS device, an A360 Personal Mixer, a D800 or D800-Dante A-Net Distributor, and a Wi-Fi router.

If you're new to A360 Display or don't have access to the personal mixing system hardware, try the Demo Mode found in the Settings window.

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# Setting Up

Each A360 Personal Mixer in a personal mixing system communicates with one of the eight A-Net ports on a D800 or D800-Dante A-Net Distributor to provide its mix information over Wi-Fi to an iOS device.

It's important to set up each component—your iOS device, the Wi-Fi router, the D800, and the A360—properly in order to use A360 Display successfully with your monitor mixing system.

Your A360 Personal Mixers and D800 A-Net Distributors will also need to be running the latest firmware to take advantage of the features offered by A360 Display. Firmware updates are available on the Aviom website and require a USB memory stick to install.

## D800 Setup

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Connect the Ethernet port on the rear of the D800 (or D800-Dante) to the Wi-Fi router with a Cat-5 cable. (Each D800 should be connected to its own Wi-Fi router.)

No internet connection is required to use A360 Display.



The Wi-Fi router is connected to the Ethernet port on the D800 rear-panel.

On the D800 front panel, connect the A360 Personal Mixers to the A-Net ports. For each A360 that will be using A360 Display, move the D800's front panel switch to the "II" position to enable two-way communication.

## Wi-Fi Setup

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There are two parts to the Wi-Fi setup—the router hardware’s internal setup and the Apple iOS device’s Wi-Fi setup.

## Router Setup

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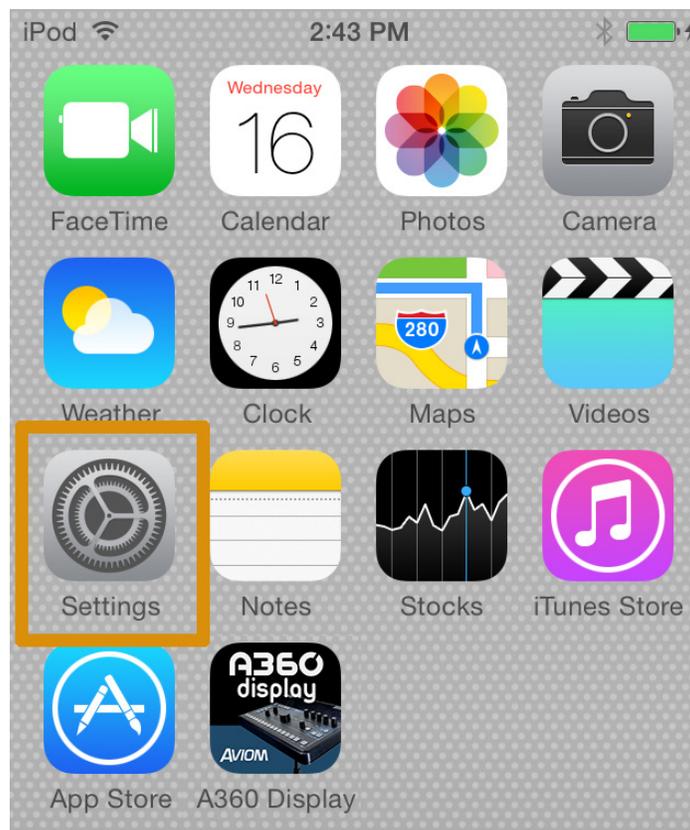
If you’re using a new Wi-Fi router, follow the manufacturer’s instructions for setting up the device (this most likely will require that you connect the device to a computer.). Give the router a name, decide if you need a password for the device, etc.

## iOS Wi-Fi Setup

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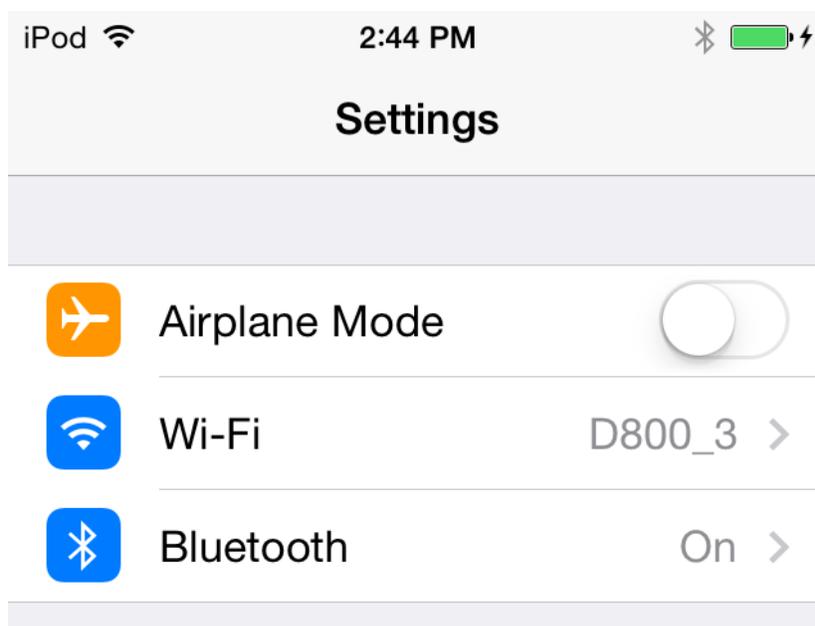
An iOS device can communicate with one Wi-Fi router at a time. If your iOS device is not used exclusively for A360 Display, it is likely that the Wi-Fi settings will be set to the last router that you used for wireless communication.

You’ll need to select the Wi-Fi router that is dedicated to A360 Display from the iOS device’s main Settings screens in order to communicate with the D800.



Use the Settings app on the iOS home screen to set up Wi-Fi.

From your iOS device's home screen, choose the **SETTINGS** app. Open the Wi-Fi tab and select the router that is connected to the D800 from the list of available networks.

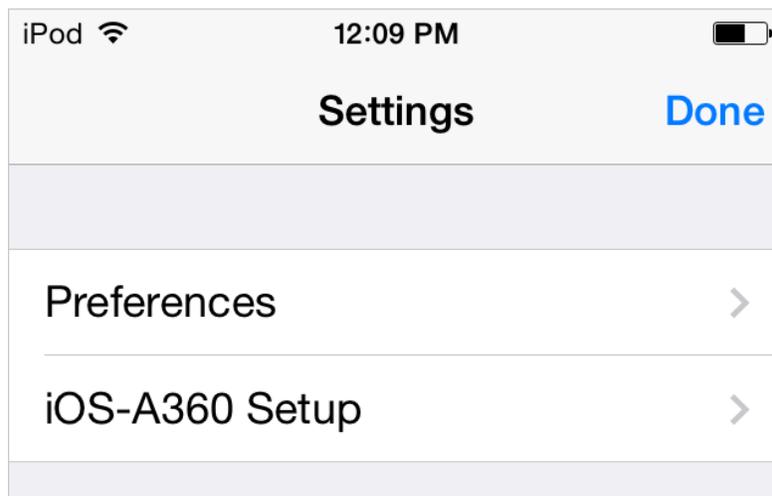


Open the Wi-Fi tab to view the available routers.

## A360 Display Setup

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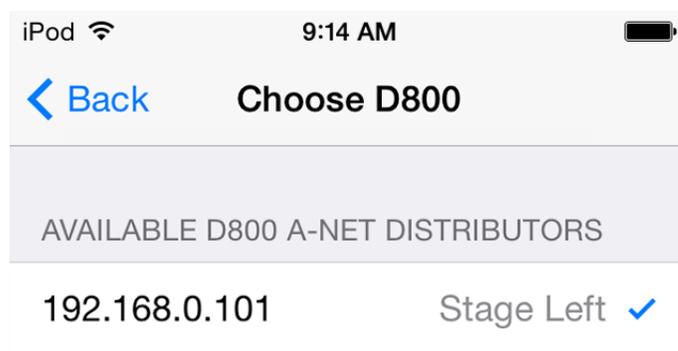
On your iOS device, launch A360 Display. Open its Settings window by touching the gear icon in the lower right corner of the app display.



Choose iOS-A360 Setup to select a D800 and A360.

Open the **iOS-A360 SETUP** tab. Choose a D800 to use by opening the **CHOOSE A D800** tab and selecting one from the list shown. (The default name for a D800 is its IP Address.) A blue check mark is added next to your selection.

Connecting to a D800 for the first time will also open a naming window where you can enter up to 12 characters of text to identify the D800. This feature is especially useful if there are multiple D800s in your system.



Select a D800 A-Net Distributor.

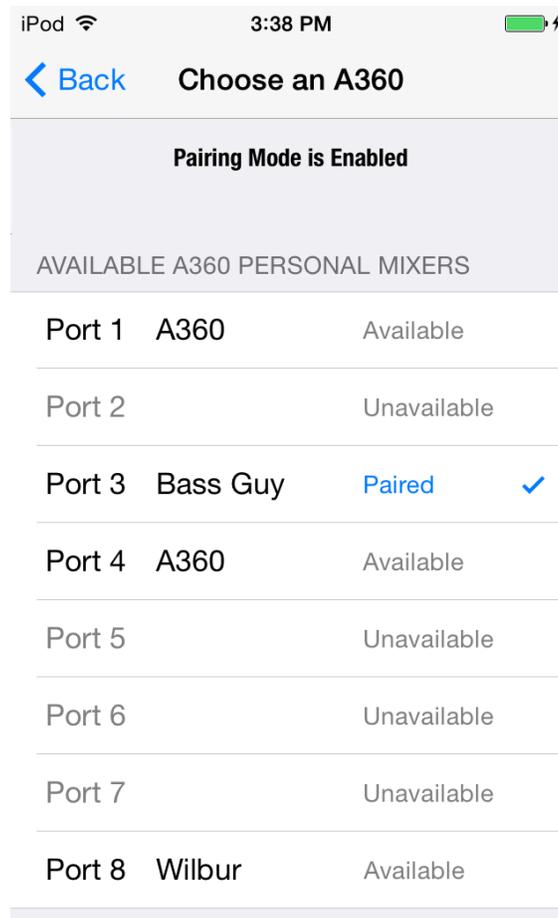
Go back to the iOS-A360 Setup page and choose an A360 to use by opening the **CHOOSE AN A360** detail tab. All available A360 Personal Mixers connected to ports on the D800 you just selected will appear in the list; each port shows either the mixer's default name (A360) or a custom name.

## Choose an A360

A360 Personal Mixers that can be connected to are shown with “Available” next to their name; D800 ports with no A360 connected are shown as “Unavailable,” and an A360 that is already paired with another iOS device in the network is shown as “Paired” in gray text.

Tap a row to select an available A360; a blue check mark appears next to its name when selected.

At this point, you can view the mix settings on the selected A360, but in order to make changes to channel names, presets, etc., the A360 and one iOS device must be paired.



All connected A360 Personal Mixers are displayed in a list.

## Pairing

Pairing an A360 and an iOS device allows the iOS device to control and change certain settings on the A360 to which it is paired. The list includes the A360 Personal Mixer name, channel names for the 16 mix channels and the Dual Profile Channel, Mix Preset names, and Group names.

No other iOS device can make changes to an A360 while it is paired with a specific iOS device. They can view its mix settings and make use of all of the Views in A360 Display, however.



Turn on Pairing mode to enable editing.

Pairing is turned on by setting the switch for **PAIR MODE** to on (green) in the iOS-A360 Setup window. When an A360 is paired with your iOS device, the word **PAIRED** appears in blue in the Choose an A360 window.

### Identify Unpaired Personal Mixers

Below the list of D800 ports and A360 names in the Choose an A360 section is a convenient utility feature that is useful when setting up a personal mixing system. Tapping the **IDENTIFY UNPAIRED PERSONAL MIXERS** button will cause the LEDs on all unpaired A360 mixers in the system to flash briefly.

When you're done choosing an A360 and setting up pairing, tap the **BACK** button to return to the iOS-A360 Setup and then exit out to Settings. Press **DONE** to exit Settings and return to the main app views.

### Other Settings

The remaining settings and preferences are detailed later in this document. See "Settings and Preferences" on page 28.

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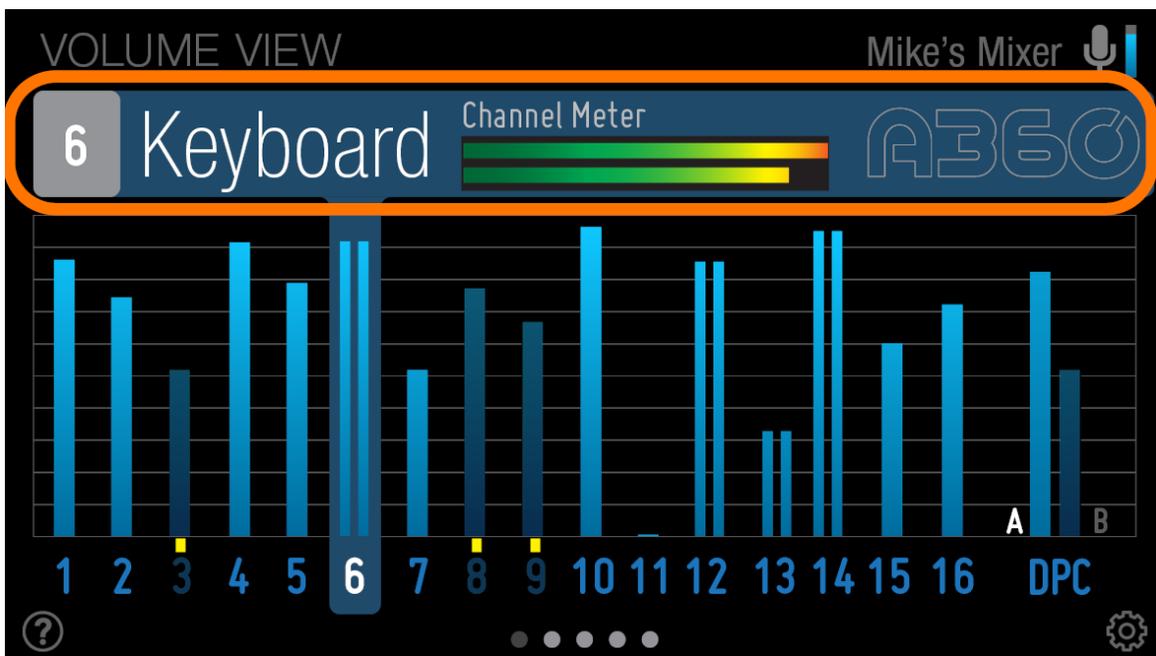
# Using A360 Display

*A360 Display's main views have some common interface elements as noted below. Contextual help for each View is available by tapping the on-screen ? Help icon. Swipe left/right to select a View.*

## Info Bar

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The Info Bar runs horizontally across the Volume, Meter, Stereo Placement, Tone & Reverb, and Channel Names views.



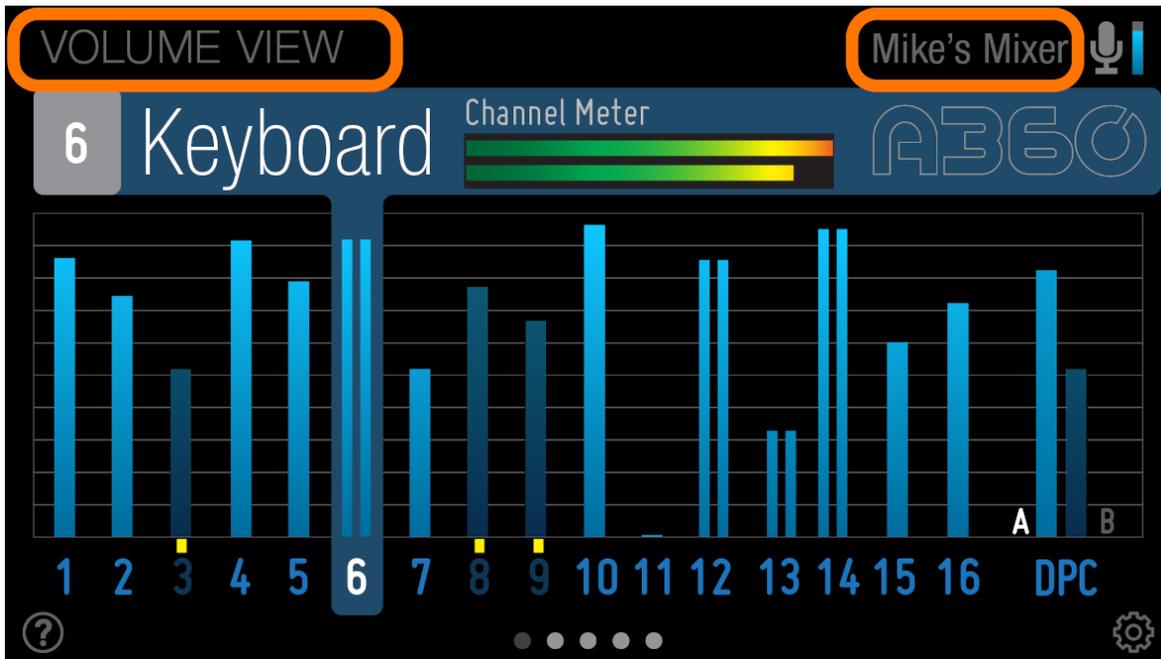
The Info Bar runs across the top of the screen.

The Info Bar shows the currently selected mix channel number, along with its default or custom user-entered name; the info changes in real time as channel buttons are selected on the A360. A mono/stereo level meter is shown next to the channel name on the Volume View; the other views show a blue mono/stereo channel volume level bar.

## View Name

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The name of the current View is shown above the Info Bar and updates as Views are selected.



The View Name and Mixer Name appear at the top of each View.

## Mixer Name

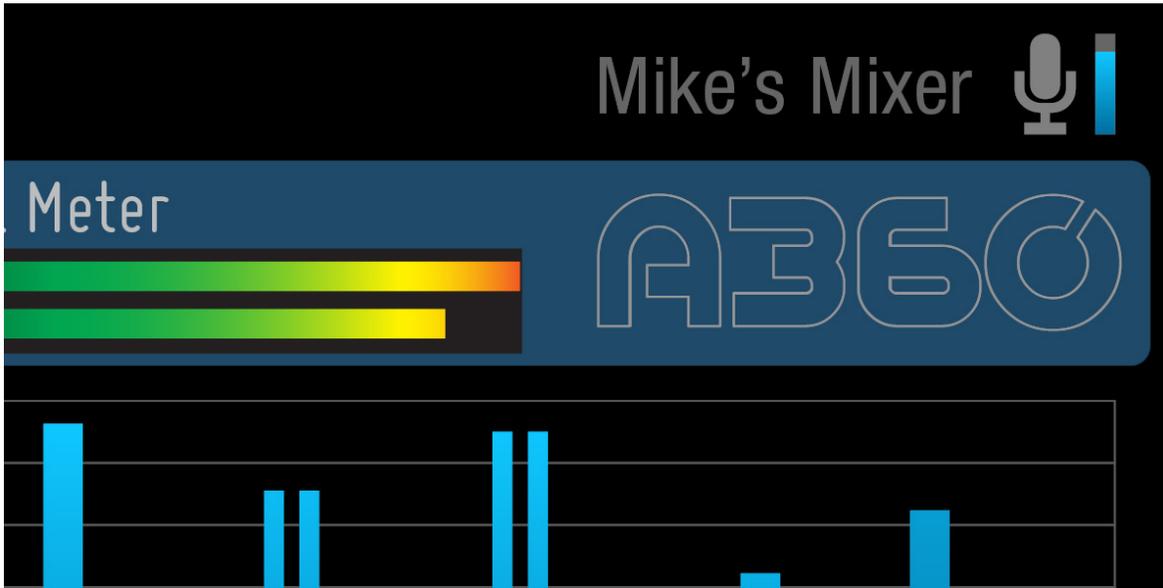
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Next to the View name is the A360 Mixer Name, a user-editable field that can accept up to 12 characters. Enter a name for your A360 Personal Mixer from the Settings pages, or touch the name field in any View to open a text edit dialog box.

## Ambience

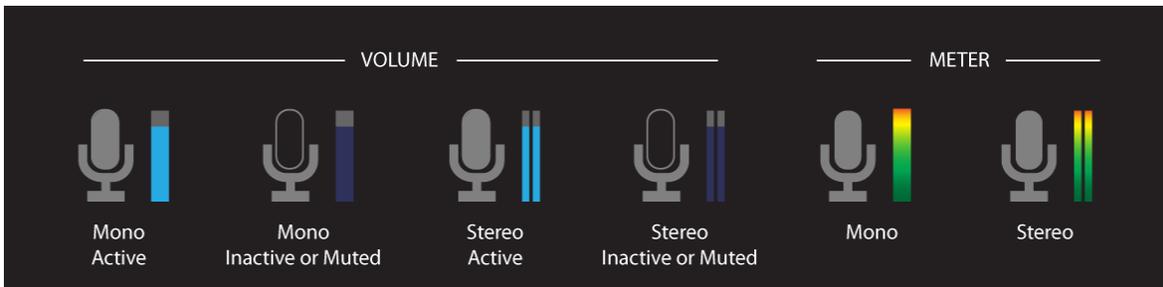
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The One-Touch Ambience channel's icon appears in the upper right corner of the current view and has an active and inactive state.



The One Touch Ambience icon appears at the top right corner.

When active, the mic icon is solid and supports both mono and stereo volume level bars or meters depending on which View is selected. (Stereo is only available in Custom Mode.)



The Ambience channel shows either a level bar or meter bar.

When One-Touch Ambience is inactive the mic icon is outlined and the volume level bars or meters are disabled.

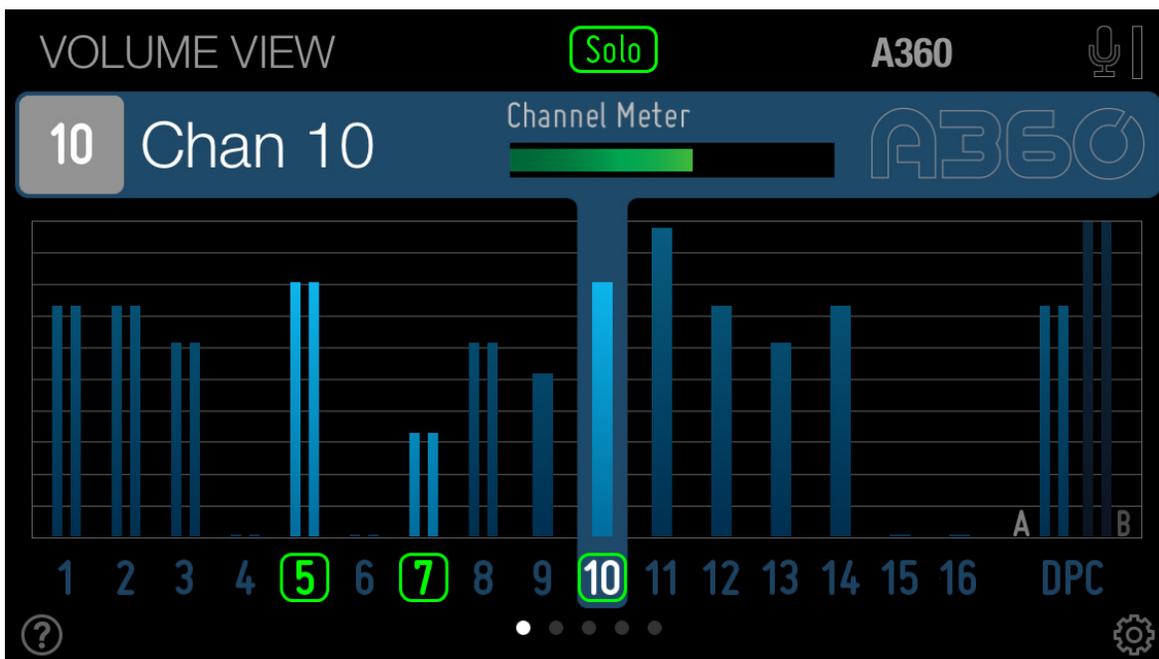
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✓ **TIP:** When using the A360's Custom mode, you can assign mono/stereo network audio to the Ambience channel using the free A360 Channel Manager software.

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## Solo Mode

When one or more channels is in solo mode on the A360, the on-screen display will show the channel number(s) highlighted in green.



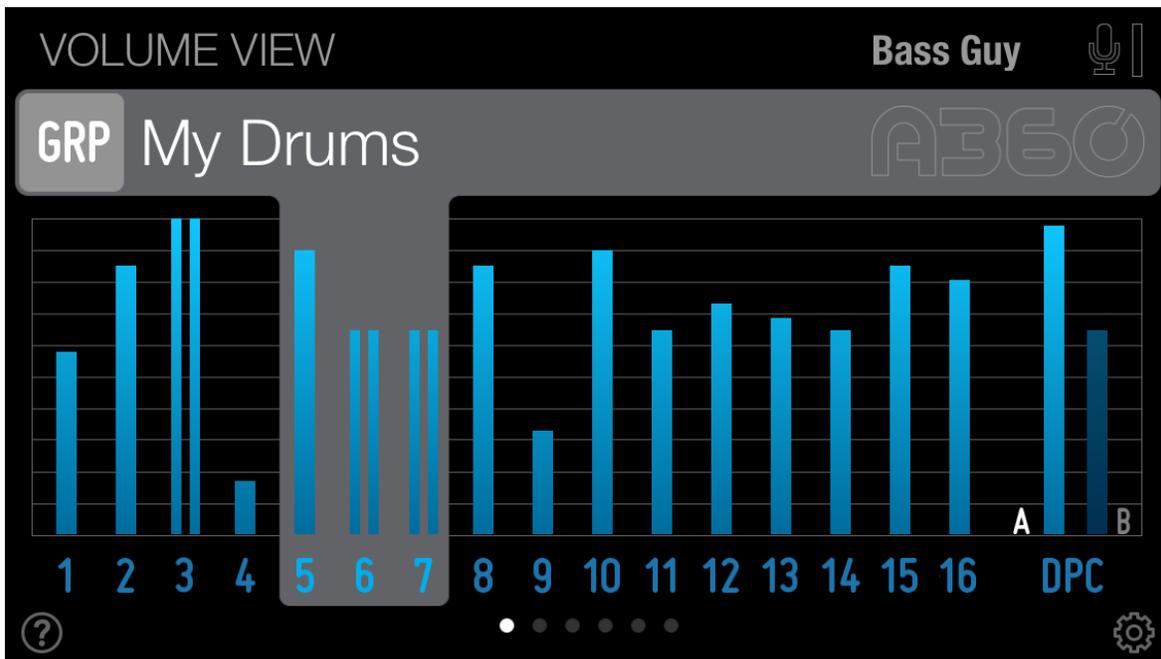
In Solo Mode, the active channels are shown in green.

A master Solo indicator is shown above the Info Bar in each View while Solo is active on the A360.

Note that multiple channels can be in solo mode (by double-clicking A360 channel buttons), but only one is available for editing. The channel being edited will always be shown with a white channel number.

## Groups

The A360 Personal Mixer allows you to create up to four Groups per mix preset. When channels are grouped together, they are displayed with a gray highlight instead of the blue highlight used for single channels.



Groups are shown with a gray highlight.

The letters `A` appear instead of a single channel number in the Info Bar.

## Group Names

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The first Group you create on the A360 is assigned the name Group 1 (or the first Custom Group name if you have already entered custom names ). Tap the Group name in the Info Bar to assign a different name. A list of 10 Custom and 18 Standard names is displayed.

You can edit the text for the ten user-configurable names directly from the window by tapping its name to open the keyboard.

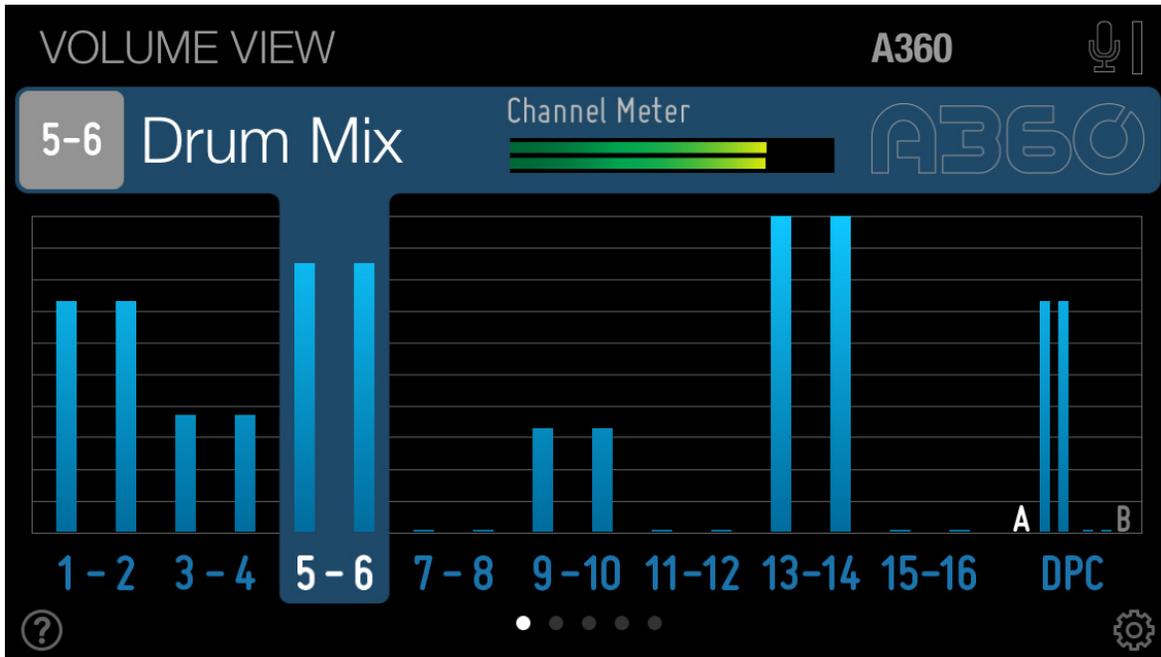
The standard names available are:

- Vocals
- Vocals 2
- BG Vocal
- Choir
- Drums
- Perc
- Rhythm
- Guitars
- Keyboard
- Synths
- Loops
- Tracks
- Strings
- Horns
- Brass
- Winds
- Orch
- Band

A blue check mark is used to show the current Group name selection.

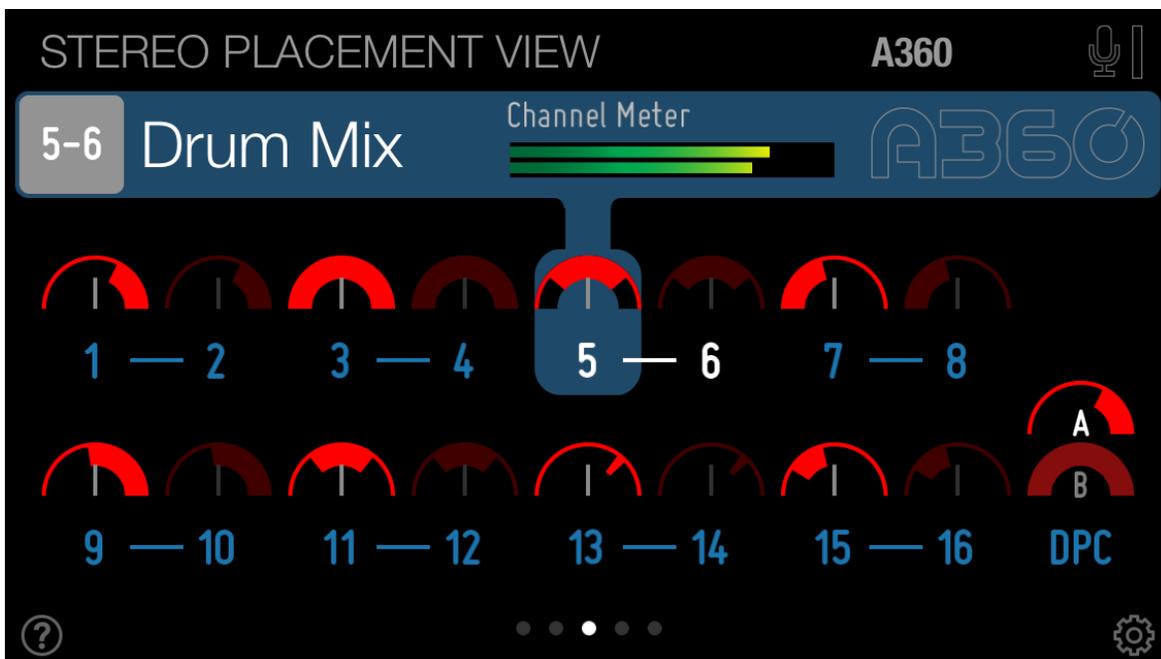
## Pro16 Mode

When the A360 is used in Pro16 mode, stereo sources use a pair of adjacent channels. These are indicated with a horizontal line connecting the odd/even channel numbers of the stereo pair.



Stereo channels in Pro16 mode are highlighted together.

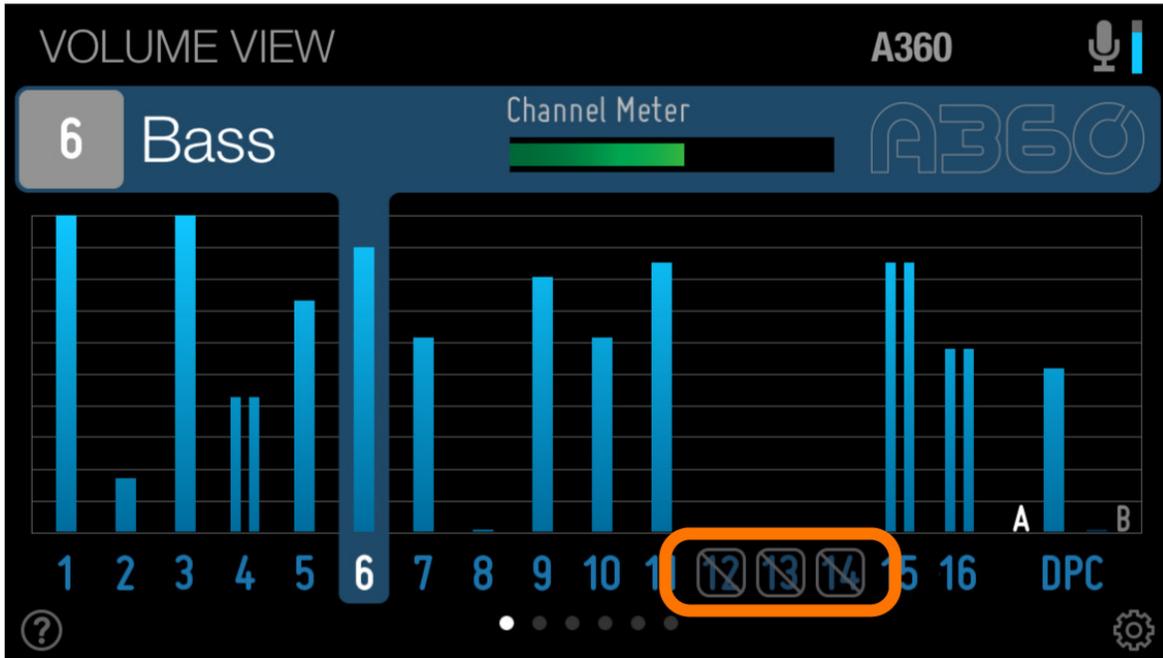
The Stereo Placement View shows a single pan indicator for each Pro16 stereo pair; the unused panner for the even-numbered channel is dimmed and cannot be selected.



In Pro16 mode, stereo channels use a single panner.

## Custom Mode

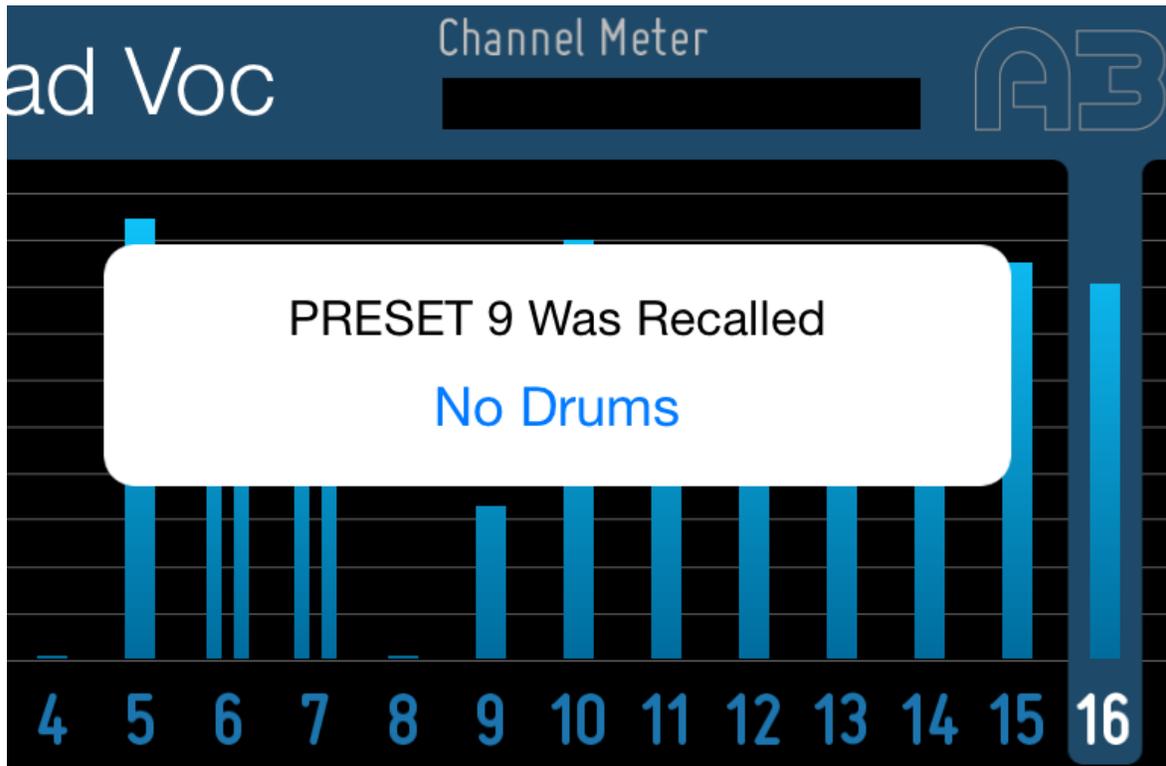
The A360's Custom Mode allows you to map any network Slot to any mix channel button. If you create and load a configuration that leaves some channel buttons with no Slot assignment, the Volume, Meter, Stereo Placement, and Tone & Reverb Views will display any unmapped channels with a cross-out symbol.



Unmapped channels are shown with a cross-out symbol.

## Mix Presets

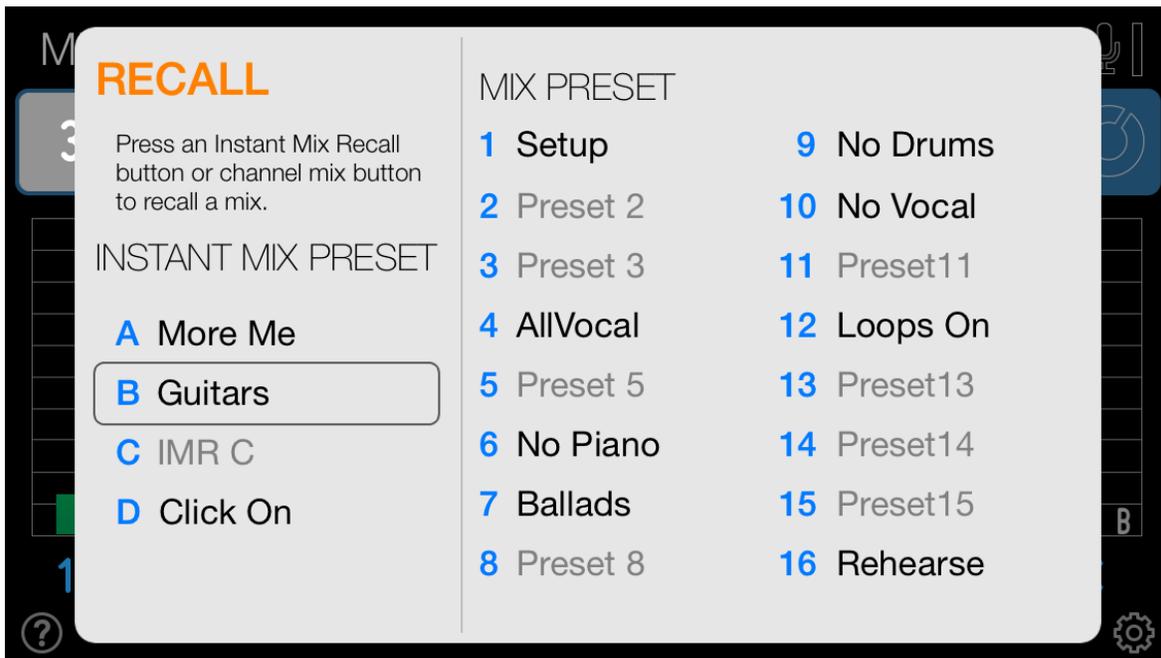
When a mix preset is saved or recalled, an on-screen confirmation is displayed showing the Preset number and its default or custom name.



Preset recall confirmation

When the Recall button on the A360 is pressed, a list of all available mix presets will be shown. The four Instant Mix Recall locations are on the left, and the 16 mix presets assigned to the channel buttons appear on the right in two columns.

Custom names for your mix presets can be added in the Settings window by opening the Name Presets and Groups tab.



Pressing the Recall button opens a list of all available mix presets.

As a reminder, the last mix preset that was recalled on the A360 is highlighted.

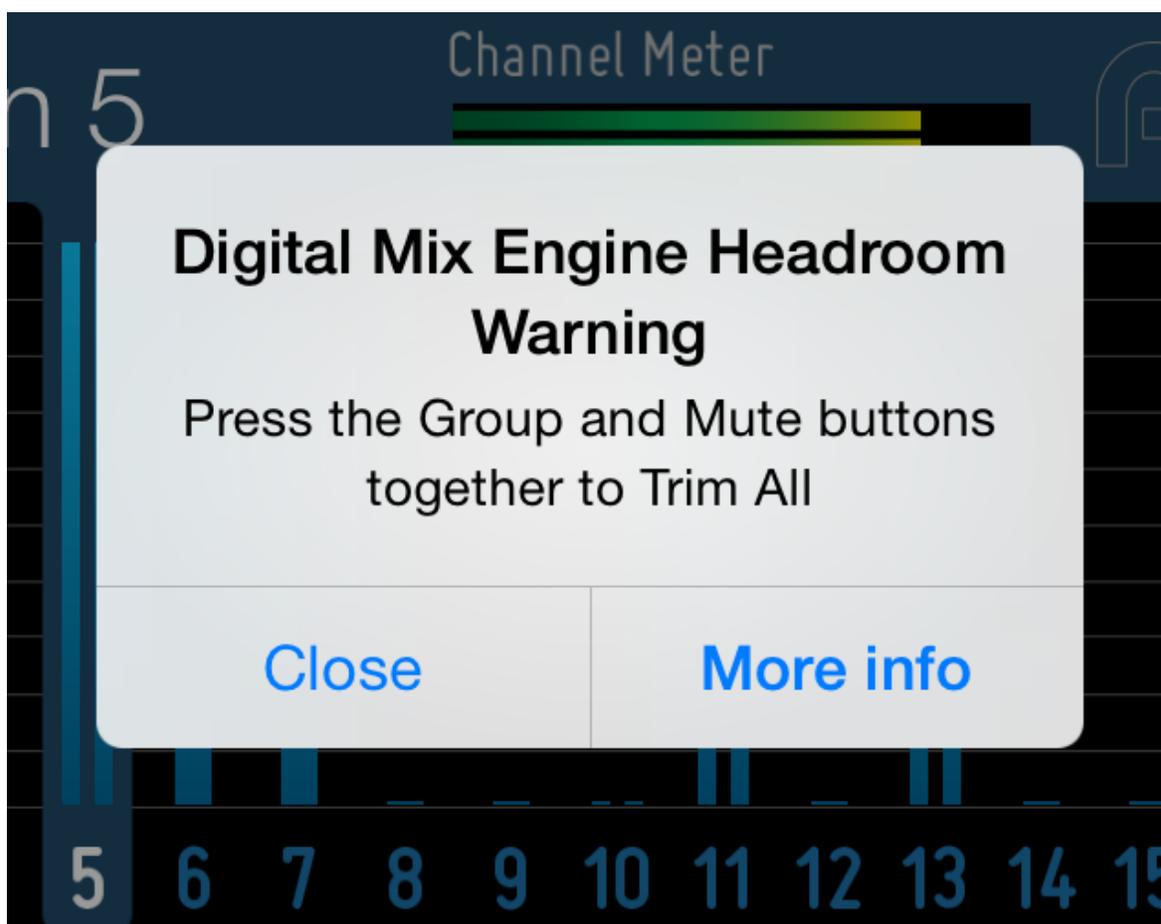
## Trim All Warning

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The A360's digital mix output level is constantly monitored to ensure that your mix always sounds its best. On the A360 itself the Digital Signal/Clip LED near the Save button shows the status—green for normal mix levels and red for clipping. Occasional appearances of the red LED are normal; the transients from signals such as percussion will cause a brief display of the red LED. It's the longer, sustained periods of distorted audio when the red LED is on for extended periods of time that you want to avoid.

When the digital mix level in the A360 gets to the point of clipping, an on-screen warning will appear. It will clear itself after three seconds on screen, or you can tap the Close button to dismiss it immediately.

Contextual help about the Trim All feature is available in the dialog box by tapping More info.



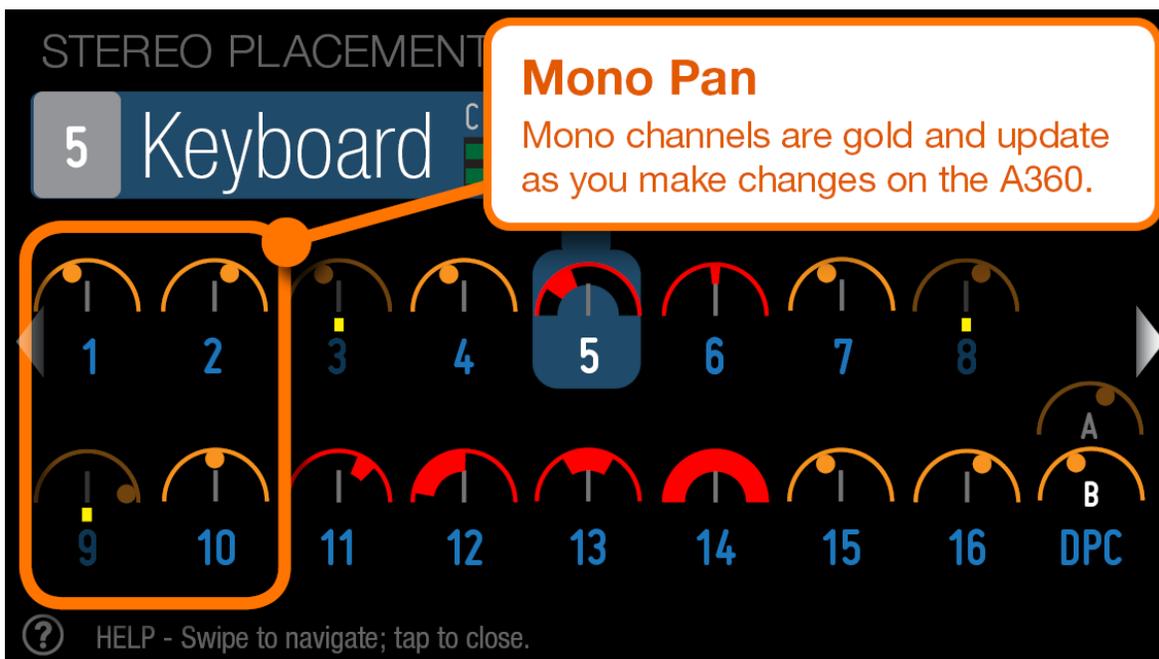
Press Group + Mute together to trim your mix.

If the digital mix level is clipping, use the Trim All command to lower all channels in the mix by 3dB simultaneously. Press Group + Mute together to trim your mix.

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- ✓ **TIP:** Turning down the A360's Master Volume knob will not clear the clip warning or lessen the amount of distortion you hear. This knob controls only how loud the mix is when sent to the A360's audio output jacks.
-

## Contextual Help

Each of A360 Display's Views has its own help screen. Tap the "?" Help icon to open the help, and then swipe left/right to move through the screens. Tap the screen to close the help.



Tap the ? icon to open contextual help for any View.

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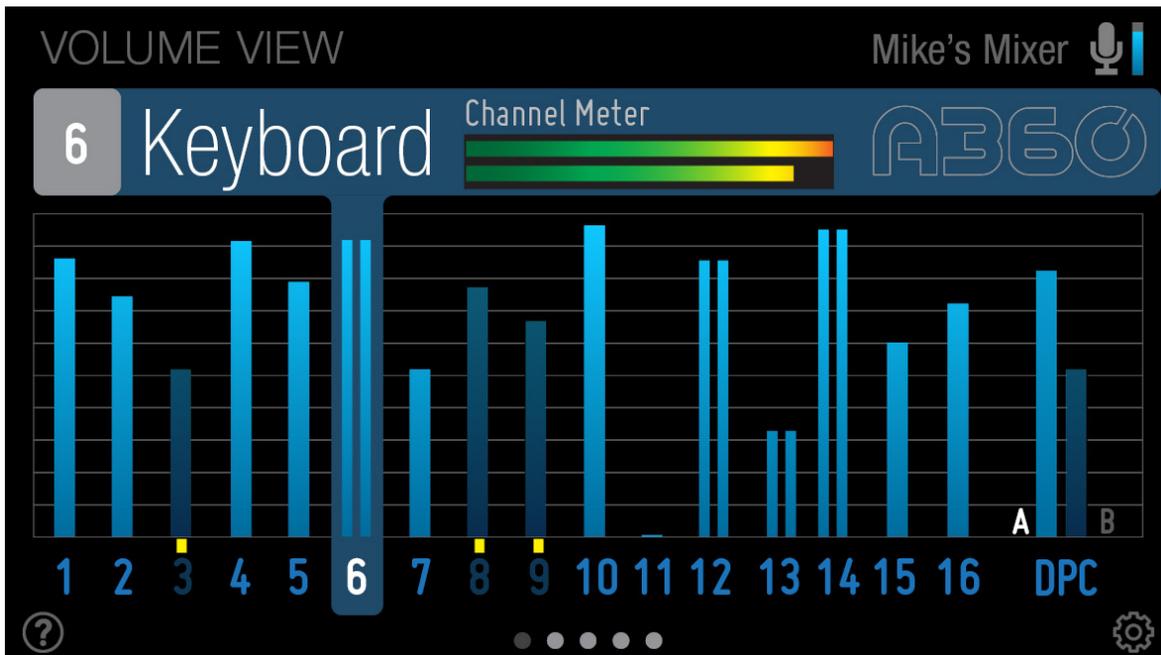
# Using Views

The six main views within A360 Display are described below.

## Volume View

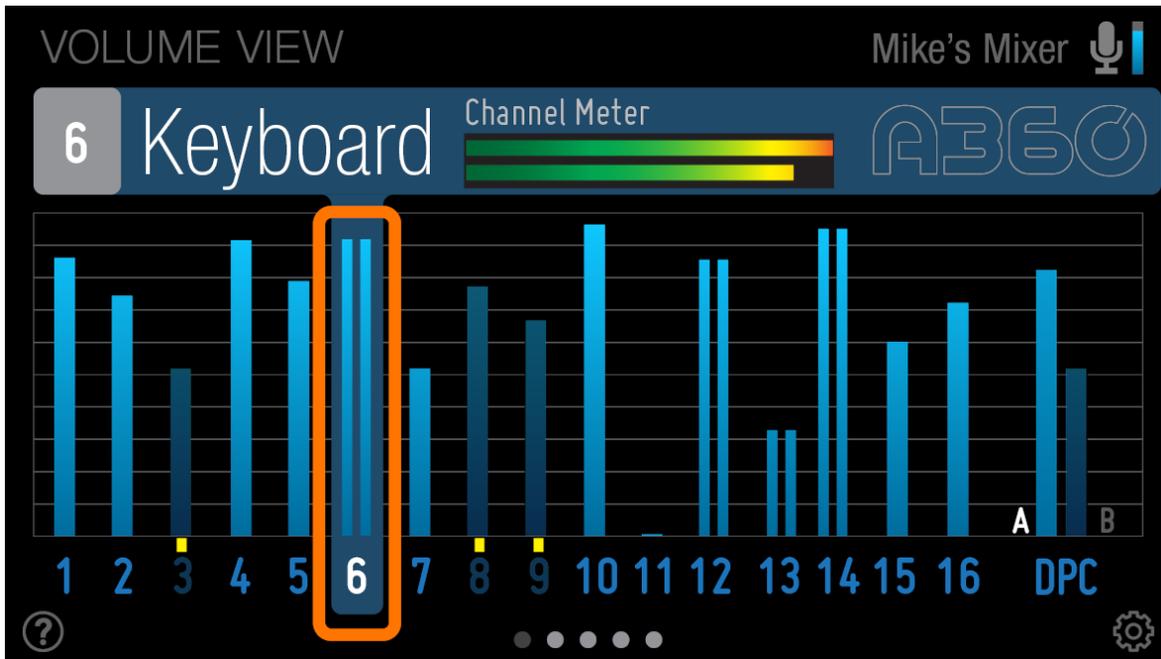
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The Volume View shows the current level for the 16 standard mix channels plus the Dual Profile Channel and One-Touch Ambience.



Volume View with channel 6 selected

The selected channel is highlighted and its name is shown in white along with a horizontal channel level meter in the Info Bar.



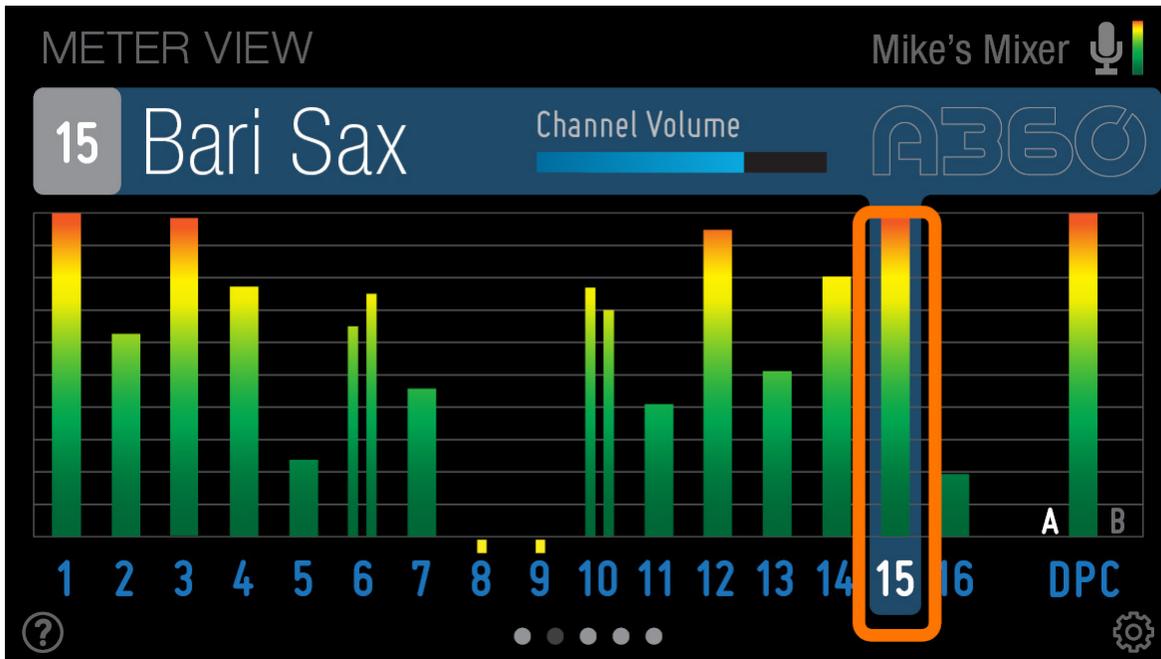
A stereo channel uses a double level bar.

Mono channels are displayed with a single blue volume bar; stereo channels use a dual bar. Muted channels have a yellow square mute indicator above the channel number; the volume level of a muted channel is shown in a darker shade of blue.

Channel volumes update in real time as you make changes on the A360 Personal Mixer. All channel levels will update together when a mix preset is recalled.

## Meter View

The Meter View provides a live visual display of the current mix's audio activity.



A mono channel uses a single meter bar.

When a mix channel is selected on the A360 its channel meter is highlighted and the channel's details—channel number, channel name, and a horizontal blue channel level bar—are shown in the Info Bar.

Mono channels have a single level meter that changes from green to yellow to orange; stereo channels use a dual meter.

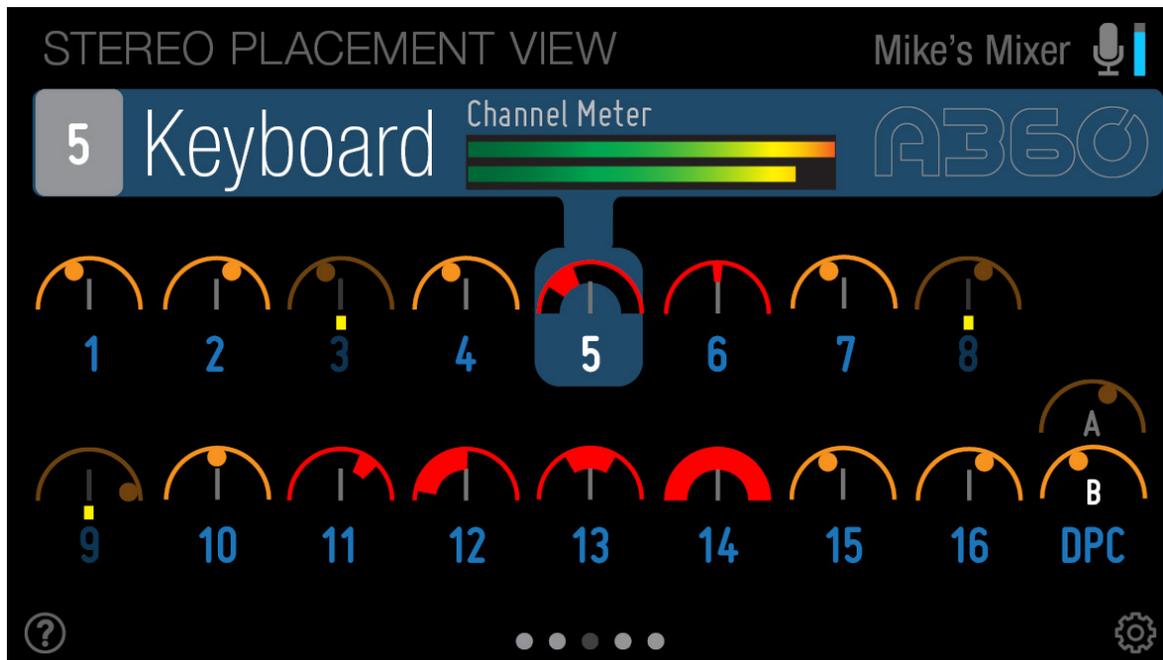
Muted channels are shown with a yellow square mute indicator. No metering is available when a channel is muted in the current mix.

When the One-Touch Ambience channel is activated, its audio (either from the on-board mic or from network channels) is metered next to the mic icon.

## Stereo Placement View

Each channel's location in the current stereo mix is shown in the Stereo Placement View. The selected channel is highlighted and its channel name and a level meter are shown in the Info Bar.

All Pan and Spread settings update as you make changes on the A360 or recall mix presets.



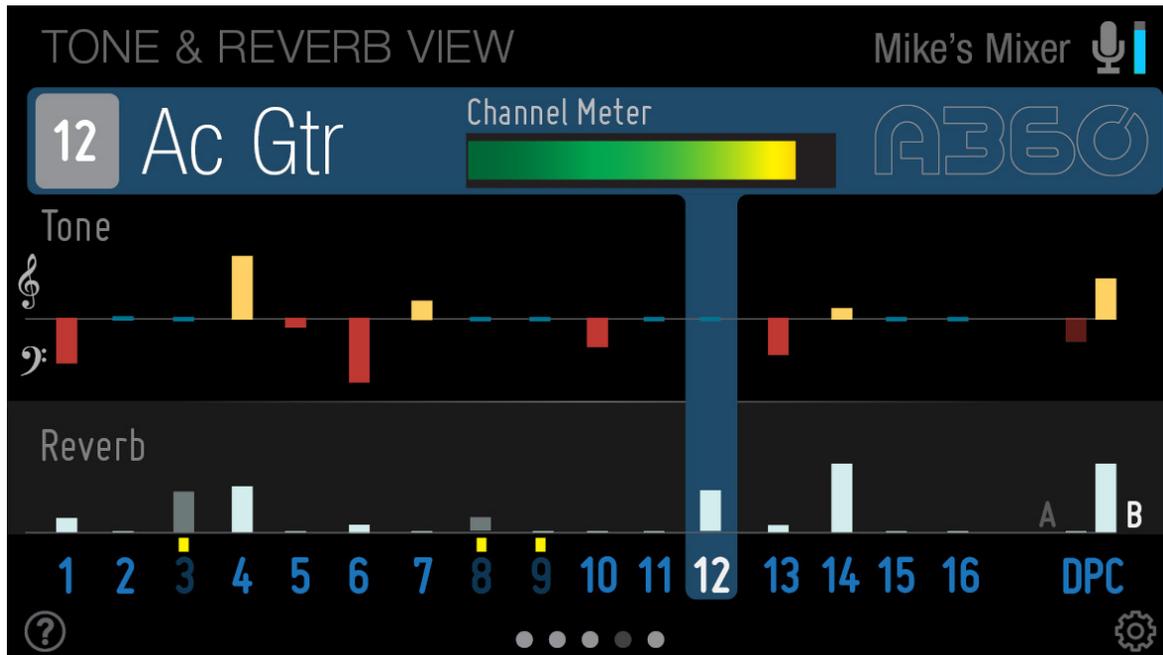
Stereo channels show Pan and Spread on the same arc.

Mono channels are shown in gold with a single position marker that moves along the arc as you edit. Stereo channels are shown in red and display both the Spread amount (the distance between the left and right signals) and the Pan amount (the location in the stereo image).

The Dual Profile Channel shows two pan/spread arcs, one for each Profile. The currently active Profile (A or B) will be highlighted and the inactive profile's on-screen art will be dimmed.

## Tone & Reverb View

The two-part Tone & Reverb View shows each channel's settings for Treble or Bass boost as well as Reverb amount.



Tone and reverb amounts are shown in a single view.

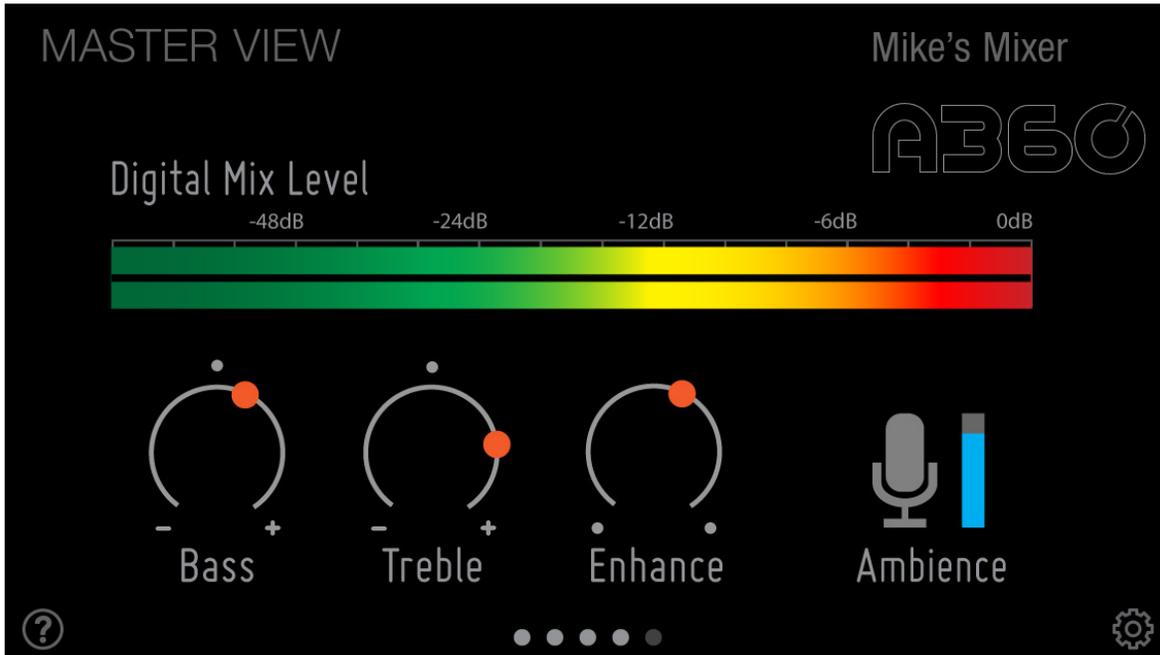
In the Tone section, a Treble boost is shown in yellow while a Bass boost is shown in red. The default position (no tone change) is shown as a blue center line.

The Reverb amount for each channel is shown with a light gray bar.

Remember that the Dual Profile Channel has two sets of controls (the A and B Profiles), which allow you to set up the DPC for different performance scenarios and then recall settings for volume, tone, reverb, and pan/spread with a single button press.

## Master View

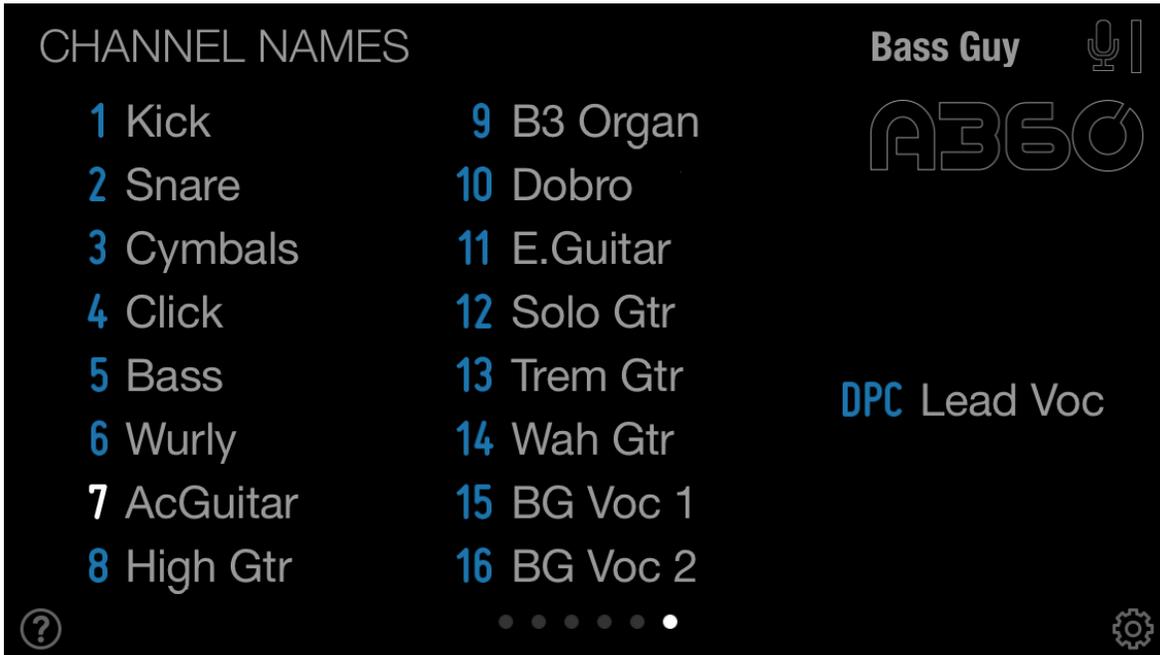
The Master View displays a high-resolution level meter for the main mix output along with indicators for the A360 output section's Bass, Treble, and Enhance settings.



The Bass, Treble, and Enhance amounts are global settings.

## Channel Names View

The Channel Names View acts as a virtual channel strip, showing all of the default and custom channel names for your A360 Personal Mixer on one screen.



The selected channel is highlighted in white.

The selected channel number is shown in white. Muted channels are indicated with a yellow square next to the channel number.

You can enter custom channel names for your A360 by tapping a name and entering text in the keyboard dialog box that appears; you can also edit the channel names from the Settings pages.

Channel names are stored in the A360 Personal Mixer itself and are retained through a power cycle. The names are also saved as part of each A360 configuration you save to a USB memory device and can be edited using the A360 Channel Manager software.

## Settings and Preferences

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The Settings windows within A360 Display provide access to the communication setup, app preferences, utility functions, and help. Each is described below.

The iOS-A360 Setup section of Settings is covered earlier in this document. See “A360 Display Setup” on page 5.

## Preferences

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Inside the Preferences tab you will find the Default View and Sleep settings. Default View allows you to pick a favorite View within A360 Display that the app should return to once you have stopped making edits.

The choices are:

- Volume
- Meters
- Stereo Placement
- Tone & Reverb
- Master
- Channel Names

Tap to choose your favorite view; a blue check mark appears next to its name. The app will also go directly to this default setting when you launch it each time. The default setting is the Volume View.

## Auto-Switch Views

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The Auto-Switch Views feature causes the views to change based on the edits you make on the A360. For example, if you select a mix channel and change the panning, the Stereo Placement View will appear. If you then change the channel's volume, the app will switch to the Volume View. Set the switch to on (green) to enable it.

How the switching behaves is controlled by the timing setting found below the switch. The available settings are:

- 3 Sec.
- 5 Sec.
- 10 Sec.
- 20 Sec.
- 30 Sec.
- On Channel Change
- Never

Tap to make a selection. A blue check mark is shown next to the current choice. The 3 through 30 seconds options will wait for the chosen time amount after you've stopped editing and then jump to your Default

View choice. This is useful if you always want to return to the Channel Names View once editing is done, for example. There's no need to swipe the window to change views.

Picking **ON CHANNEL CHANGE** causes the view to jump to your Default View selection as soon as you press a channel button on the A360. This setting is useful during setup when you want to start each channel edit at the Volume View, for example.

Setting the option to Never causes the app to change views as you make edits on the A360, but it will not jump to your Default View once editing is complete.

## Name Your A360

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Giving your A360 Personal Mixer a unique name makes it easier to identify when there are multiple A360 mixers in your system.

The default name for an A360 Personal Mixer is "A360," and you will be given the opportunity to change it automatically when you first select and pair with the A360.

The A360 name can be up to 12 characters long and you can rename an A360 at any time; the name is stored in the A360. You must be paired with an A360 to be able to edit its name.

## Name Channels

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Each mix channel on your A360 can be given a custom name of up to 8 characters. Channel names appear in the Info Bar as you select mix channel buttons on the A360 and will also be saved as part of a configuration when you save one to a USB memory device. Configurations can be edited by using the A360 Channel Manager software on a PC.

The Channel Names window opens a list that shows the 16 mix channels, the Dual Profile Channel, as well as the read-only network Slot assignment and mono/stereo status for each.

Read-only fields next to the channel name provide info about the channel's network Slot assignment and its stereo/mono status.

iPod 4:18 PM

< Settings Channel Names

Tap a channel name to edit it.

CHAN	NAME	SLOT	ST/MONO
1	Lead Voc	16	Mono
2	BGVoc 1	15	Mono
3	BGVoc 2	23	Mono
4	Ac. Gtr.	7-8	Stereo
5	CleanGtr	12	Mono
6	Dobro	18	Mono
7	High Gtr	6	Mono
8	Crunchy	11	Mono
9	Tremolo	13	Mono
10	Wah Gtr	14	Mono

Add channel names for your A360 from the Settings window.

Tap any channel's name field to open the text editing tools. Press the **DONE** button in the on-screen keyboard to commit the edit. Swipe up/down to scroll through the channel list.

Channel names are stored in the A360 Personal Mixer itself and are retained through a power cycle. Pairing with a mixer will automatically import its channel names into the Channel Names list.

## Name Presets and Groups

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Mix Presets and Groups can also be named using the on-screen keyboard when you open the Name Presets and Groups tab. Click any of the 16 mix presets, the four Instant Mix Recall locations (abbreviated as IMR A through D), or Group names to open the keyboard. As with channel names, the names for Presets and Groups can be up to 8 characters long.

Custom names you enter will be saved as part of a configuration when you save to a USB memory device.

Like channel names, the names given to the mix presets and Groups are stored in the A360 Personal Mixer itself and will automatically appear in the presets and Groups name lists when you pair with an A360.

## Name Your D800

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Each D800 A-Net Distributor in your system can have a unique name to make it easier to identify.

When a D800 is selected for the first time, a naming window will open where you can enter up to 12 characters of text. The name is stored in the D800 itself and all users will see changes made to the D800's name when selecting a D800.

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