

Linking two Blue Sky AMC's together for 16-channel operation.

Prerequisites:

1. AMC remote modified for 16-channel operation.
2. AMC Remote Firmware 4.10
3. AMC Rack Firmware 4.10. Both units, Main & Aux, use the same firmware.
4. AMC Control Software 4.10

Instructions for updating the firmware in existing units are included in the zip file.

Limitations of the AMC software

The AMC control software will only work when connected to one unit at a time.

Single 8-Channel Rack Use:

This firmware can be used with a single rack unit by plugging the rack into the main port on the remote.

Hardware Setup:

The Main unit should be connected to port 1 on the remote. The second unit (Aux) should be connected to the Aux port on the remote.

The Main unit powers the remote.

Startup:

First power up the Aux unit, and then power up the Main unit.

If the Aux unit is powered and connected when the Main unit is powered up, the remote will not detect the Aux unit, and the 16-channel functionality of the remote will not be enabled.

Basic Operations:

GAIN, MUTE, REF, DIM, and PRESET controls both units simultaneously. REF and DIM gain settings and display text (i.e., preset names) is from values stored in the main unit.

Channel Solo and Mute:

Because there are only 8-channel presets buttons, 16-channel operation requires mode switching.

For example, if you are in SOLO mode and want to solo channels in the Aux unit, you tap the SOLO mode button. This will cause the button to flash indicating the MUTE/SOLO buttons are controlling the Aux unit.

Any channel selected on the Aux unit will also flash.

To return to the Main unit, tap the SOLO mode again. The same operation holds true for MUTE mode operation. If channels are selected in the SOLO mode and you select MUTE mode, the selected channels will be reversed, i.e. what was soloed will be muted and vice versa.

Menu Operations:

To access the menu, tap the MENU button. To switch between boxes, rotate the knob in the scroll mode until you are at the top level. Then hit the menu button again. This will access the menu for the Aux unit.

Menu items can be scrolled through using the gain knob. To change a parameter, hit the menu button and the gain knob can be used to change that parameter. Hit the menu button again to switch back to menu mode.

The DIM/CANCEL button will exit the menu mode and store the updated parameters in the selected preset.

While in the menu mode, MUTE, REF, and SOLO buttons are still active. The Preset buttons are disabled, and the DIM/CANCEL button is used to get out of the menu only.

Additional Menu Items:

In addition to previous firmware releases, the 4.10 version adds additional selections.

1. Pink Noise output on a channel-by-channel basis. This will output low-level pink noise on the selected output for both digital and analog outputs. The gain control knob allows you to rotate through the channels. This feature is mainly used to check wiring and channel assignment during setup.

2. The Reset Factory default resets both connected boxes to the factory default presets.
3. You now have the choice of using 48Khz or 96Khz as the system sample rate. Changing the internal sample rate will cause both boxes, Main and Aux, to reset, and load the selected sample rate. The 140dB dynamic range sample rate converters automatically convert any incoming sample rate from 44.1Khz to 96KHz to the internal sample rate. Digital outputs are always clocked at the internal sample rate.
4. Each pair of inputs can be selected as either digital or analog. If digital is selected the display will indicate if a digital input is connected and if the AMC has locked to it.
5. If you are linking the output of one rack to another (i.e. bass management) set the lip sync to 1 ms. Lip sync is a global parameter that affects all channels. For example if you set lip sync to 20 ms, and route a signal from the first box to the second, the output of the second box will be 40 ms, or 20 ms behind the first.