Easily expand your existing Flying Faders system

Do Bigger Projects

Stop turning away bigger projects because space is at a premium in your control room. Add additional outboard channels that are totally integrated with your console's multitrack, stereo, aux and solo buses and your Flying Faders automation system. And ACX won't compromise the sound of a classic Neve or API console.

ACX

Just Mix Bigger Projects With Your Flying Faders

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ACX was designed from the ground up for you. Compact in size, yet generous in features and performance, ACX is a whole new category of audio console product. Add up to 32 channels with not only automated faders, but also dual line inputs, equalization, filters, 4 aux sends, 8 buses, stereo panning, direct outs, inserts, solo and mute. And, as a special feature, both line inputs can be on simultaneously, creating dual summed inputs with trims on each channel for 48 active inputs. As an option, the events control facilities of Flying Faders can be used to automate the input select, input sum, EQ and insert functions.

ACX is a 16, 24 or 32 input, 8-bus console expander with fader and events automation. Measuring less than 30 inches wide for the 24-channel version and only 32" from front to back, ACX packs a lot of punch into a small space. The frame, plug-in modules and motherboards are designed for durability and serviceability, and the high-quality audio circuitry features balanced inputs, outputs and even balanced summing buses throughout.

ACX Features

The Input Modules are 1.2" (30 mm) wide by 20 _" (515 mm) long with the following functions:
All inputs, outputs and summing buses are balanced.
Output Assign 1 - 8
Provides assignment to 8 balanced mix buses.
Stereo Pan
MIX button connects pan pot to Stereo Mix Bus
POST button enables odd/even panning between bus pairs (bus buttons are `post pan')
Input Level Trims
Provide separate +/- 10dB level trim with center detent for both A and B inputs.
Screwdriver trim adjustments on each input
'B' Input Select with L.E.D.
Selects`B' line input.
Logic available on external connector to provide master selection of A or B inputs.
May be controlled by Flying Faders automation.
'Sum' Select with L.E.D.
Sums the`A' and`B' inputs after level trims, allows both inputs to be used simultaneously.
May be controlled by Flying Faders automation.
"Phase" Reverse Switch with L.E.D.
Applies polarity reverse to selected input.

Auxiliary Sends
Auxiliary sends 1 and 2 are post-fader.
Auxiliary sends 3 and 4 may be selected pre-fader.

Low Pass Filter
2nd order (12dB/octave)
In/out switch (jumper provided to include filters with EQ In /automation control).
Frequency range: 330 Hz – 20 kHz.

High Pass Filter
3rd order (18dB/octave)
In/out switch (jumper provided to include filters with EQ In /automation control).
Frequency range: 22 Hz - 1.5 kHz.

Equalizer
High frequency range: 1.5 kHz – 25 kHz.
ffl 15 dB boost/cut with detent at`0'.
Peak/Shelf switch,`Q' in peak position is 1.7.
Mid-high frequency range: 700 Hz - 15 kHz
ffl 15 dB boost/cut with detent at`0'.
Hi`Q' switch changes`Q' from 1.7 to 4.3.
Mid-low frequency range: 70 Hz – 1.2 kHz

ffl 15 dB boost/cut with detent at`0'.
Hi`Q' switch changes`Q' from 1.7 to 4.3.
Low frequency range: 22 Hz - 400 Hz
ffl 15 dB boost/cut with detent at`0'.
Peak/Shelf switch,`Q' in peak position is 1.7.

EQ In switch with L.E.D.
Internal strapping option to include filters.
May be controlled by Flying Faders automation.

Channel Insert switch with L.E.D.
Balanced, buffered insert send/return post equalizer.
Insert send is always active, but channel signal does not loop through insert circuits unless insert is enabled.
May be controlled by Flying Faders automation.

Channel Mute switch with L.E.D.
The channel mute is non-automated (independent of Flying Faders mute).

Solo with L.E.D.
Non-destructive AFL / PFL (internal jumper selectable) may be interfaced with host console AFL or PFL audio and logic sense system.

Direct Output
Provides balanced buffered nominal +4dBu output from each channel.

ACX Specifications
Input/Output Levels (nominal) +4 dBu
Input/Output Capability +26 dBu
Internal headroom for typical operating configurations 22 dB min
Input/Output Impedances
Inputs 25 k
Outputs 50
Frequency Response (EQ and filters out)
20Hz to 20kHz + 0, -.5 dB
Crosstalk (at 1kHz)
Routing Isolation >-105 dB
Channel-to-channel isolation >-115 dB
Mute attenuation (1kHz) >-105 dB
Fader attenuation (1kHz) >-94 dB
CMRR (60 Hz) >90 dB typical
Noise (unity gain, 22Hz to 22kHz bandwidth, unweighted):
- Direct (EQ and filters out) -87 dBu
- Direct (EQ and filters in) -81.7 dBu
- Aux Bus -82.5 dBu/1 ch, -72.9 dBu/24 ch Stereo Bus (pan @ detent/-3dB)
-85.0 dBu/1 ch, -74.9 dBu/24 ch
THD + N at unity gain (load=2k)
Any Input to any Output <.002% (1kHz)
<.006% (10kHz)
Screwdriver adjusted input trims +/-2 dB
Screwdriver adjusted output bus trims +/-3 dB
Audio connectors are 25-pin D sub with 8 channels of one function per connector per Tascam DA-88 pinout. For 24 channels:
- 3 each Input A, Input B, Insert In, Insert Out, Direct Out
- 1 each 8 output buses
- 1 each 4 Aux Outs/Stereo Out/Solo Out/Solo Sense Out
- Flying Faders connectors are 40-pin D sub with 4 channels per connector
- 6 each Fader control, Events control

ACX Components:
Core system consists of 16, 24, or 32 audio and fader modules, audio motherboards, audio power supplies, Flying Faders servo and events cards and cabling and consolette.

Options include a roll-around pedestal, spare audio modules, spare fader modules, and a self-contained Flying Faders servo card cage with power supply, fiber optic cable and duplex adapter for simplified fiber optic interfacing to main system.