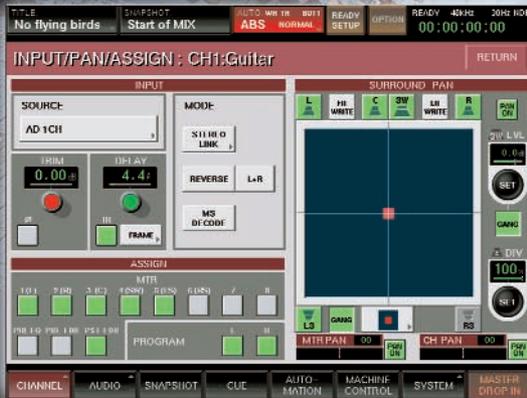
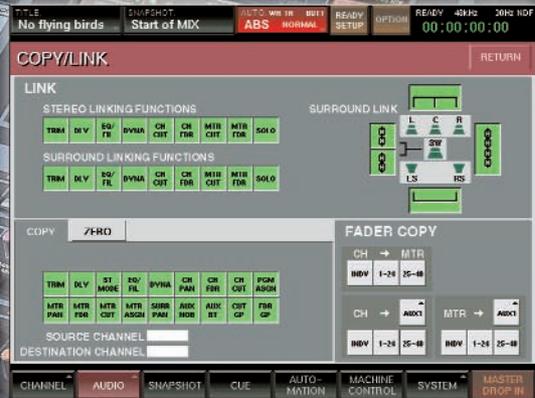


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DIGITAL AUDIO MIXER DMX-R100 version 2.0



INPUT/PAN/ASSIGN screen



COPY/LINK screen

5.1 Surround Sound Mixing at Double Sampling Rate

Version 2.0 software permits high rate (96 kHz/88.1 kHz) processing in surround mode as well as the currently available stereo mode. This is accomplished by integrating the processing required for two normal input channels to operate as one double sample rate channel. The busses of the DMX-R100 are software reconfigured to handle the double sample rate signals in surround mode. As an added benefit of version 2.0, the level of the sub woofer can now be adjusted separately on the Pan Assign GUI with the jog wheel. The input and bus configurations of the double sample rate 5.1-surround mode and stereo mode are as follows:

5.1 surround sound at double sample rate

- 24 input channels
- 5.1 MTR bus
- 2 Aux busses
- 4 Aux returns
- 5.1 CR monitor
- 5.1 External sources (x 1)

Stereo at double sample rate

- 24 input channels
- Stereo PGM bus
- 4 MTR busses
- 2 Aux busses
- 4 Aux returns
- Stereo CR monitor
- Stereo external source
- Stereo studio LS

Channel Link Control

This function allows linked control of parameters such as Trim, Delay, EQ/Filter, Dynamics, Channel Cut, Channel Fader, MTR Fader, and Solo Mode. In normal mixing, adjacent odd and even channels can be linked in stereo pairs, and in the case of surround mixing, operators can choose to link groups from the following combinations: 1-6, 7-12, 13-18, 19-24 channels and so on.

With version 2.0, a new "mask" function permits selective exclusion of parameters from the link operation. Version 2.0 also adds the capability of choosing surround link groups such as L/C/R, LS/RS and so on.

Separate Copy and Zero Reset Functions

The copy function of the DMX-R100 allows channel settings of a source channel to be copied to any number of destination channels. With version 2.0 software, a new "mask" function permits selective exclusion of parameters from the copy operation. Also, version 2.0

supports copying of channel fader mixes to MTR faders/Aux Send faders as well as MTR fader mixes to Aux Send faders; an extremely helpful function when creating cue/foldback mixes.

A Zero Reset function, also new on version V2.0 software, resets all level controls, faders, and knobs to their default values. EQ curves are also set to flat, and dynamics settings are set to their default values.

Enhanced Automation

Version 2.0 brings even more sophistication to the DMX-R100's automation functions.

The newly added Audition function allows Fader Trim updates to be rehearsed before overwriting a previous mix.

The Trim mode has also been improved. New Trim movements over previous fader settings are stored from the moment the faders are touched. A selection of Drop Out modes allows the choice of Butt, Ramp, To End, To Next and Top to End. Both prior fader movements and new offset values are displayed on the Audio Fader GUI.

Furthermore, a time code offset function has also been introduced to offset the time code used for automation relative to that fed from an external source.

Other Useful Functions

• 'Live' pre Aux Cut mode
Aux Pre-fader Send signals can be switched to be cut or not when the Channel Cut button is selected.

• Snapshot Library
Snapshot Library is a newly added feature for storing and recalling Equalizer and Dynamics settings. A maximum of 99 settings of EQ and Dynamics curves can be stored per title, for later recall and assignment to any individual channel.

• Channel Scribbles
A Channel Scribble function is also available on version 2.0 software. This allows the entry of names for individual input sources, which then appear on the touch screen next to the channel number. A maximum of seven characters can be entered for each input, and the scribble is displayed in GUIs such as the Channel, Equalizer/Filters, and Dynamics screens.

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DMBK-R109 MADI Interface Board



Inputs/Outputs Expansion

The number of digital inputs on the DMX-R100 can be significantly expanded by installing the new DMBK-R109 MADI (Multichannel Audio Digital Interface) Board. This board conforms to the industry standard MADI I/O format and offers a 48 input/48 output capability on a single board. When installed, a maximum of 72 digital inputs become available to the DMX-R100, 48 through the MADI board and 24 through the three remaining board slots when fitted with optional digital I/O boards.

Cascade Connection

DMBK-R109 boards also facilitate cascade connection of two DMX-R100 units, creating a 96-channel mixer. This means that by using two DMX-R100 control surfaces, 48 faders are physically available for sound mixing, reducing the need to resort to paging channel faders. Cascade connection at double sample (96/88.1 kHz) rate is also supported.

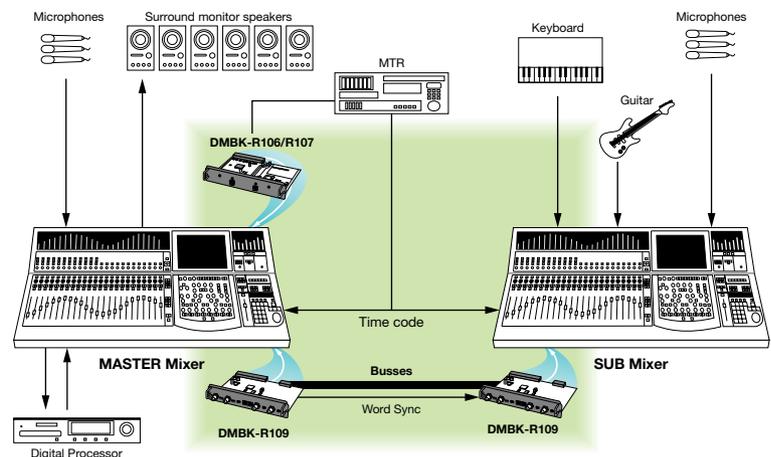
In addition, PGM/MTR/Aux busses each have an internal switch to select the bus linkage status (Linked or not) between the master mixer and sub mixer on an individual basis. The PGM/MTR/Aux busses of the master mixer are time-aligned with those of the sub mixer, eliminating the need for manual intervention to avoid timing delays. The AFL bus and solo logic of the master mixer are shared between the master mixer and the sub mixer, emulating the operation of a single 96-channel mixer.

Notes: The DMBK-R109 can only be installed into slot-4 of a DMX-R100. Version 2.1 software is required to use the DMBK-R109. This is supplied with the DMBK-R109. The DMX-R100 accepts 24 inputs when operating at double sample rate.

DMBK-R109 Specifications

Audio Format:	AES10
Mode Selection:	Standard MADI mode (OFF position) or Cascade mode (MASTER/SUB position)
Number of Inputs/Outputs Channels:	48-ch (at standard sample rates) 24-ch (at double sample rates)
Connectors	
MADI IN:	BNC (x 1) or OPTICAL (x 1) selectable
MADI OUT:	BNC (x 1) or OPTICAL (x 1)
Word Sync IN:	BNC (x 1), (75Ω ON/OFF switchable)
Word Sync OUT:	BNC (x 1)

System Configuration



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