

Applications

- 1) Expand the input capacity of an iLive system; take two hard-working iDR MixRacks from your hire inventory and combine them to make a large channel count system for a festival PA system. Operate with a choice of mixing surfaces from 12 faders (72 channels strips) to 44 faders (176 channels strips).
- 2) Inputs needed in two locations e.g. stage-left and stage-right, simply connected by 1 cat5 cable (if using ACE link).
- 3) Break-out / in at console position; an iDR-16 MixRack could be located next to an iLive-T or R Surface to provide XLR mic inputs, XLR outputs to a drive rack and insert send and return points for external equipment. If the Master~Slave link is done using MADI or EtherSound (e.g. the Slave MixRack on stage is an iDR10 with 64 XLR Mic inputs). Then the 64-channel recording device can be located next to the Surface for convenience.

DUAL-RACK FAQ

Q: Which units from the iLive range can I use in Dual-Rack mode?

A: All MixRacks providing they are at firmware version 1.63 or greater and that the Port-B expansion slot on the MixRack designated to be the Master should have a compatible option interface fitted to connect with Port-A of the MixRack designated as the Slave.

Q: What format do I use for the audio bridge between the Master and Slave MixRacks?

A: Any of the iLive interface options can be used: If the Slave MixRack is a fixed format iDR then the link has to be ACE and signal routing is automatically configured. If a modular iDR is used, then the link could be EtherSound or MADI and additional signal routing possibilities would be available. Accordingly, routing options should be manually configured to ensure the 32 mix busses run from Slave to Master on lines 1-32.

Q: How far can the MixRacks be located apart from each other?

A: This depends on the format of the interconnect between Master Port-B and Slave Port-A (typically using EtherSound or ACE this could be ~120m depending on cable type, M-MADI coax cables can be 150m). Bear in mind that the Slave MixRack needs to be on the same LAN as the Master MixRack (and Surface if present) so a direct cable connection should be no longer than 100m to an appropriate network socket.

Q: Can I have more than 128 input sockets in a Dual-Rack system?

A: Yes but at any one time (perhaps controlled by Scene Manager), the maximum physical inputs to each MixRack's input channels is 64. Of course additional input sockets can be assigned to be insert returns or bus external input, Talkback etc.

Q: Each MixRack DSP has 8 FX engines, can the Slave rack's FX be used in Dual-Rack mode?

A: Not at the current time. The Master MixRack's 8 FX become the system FX; all 128 inputs from both MixRacks can access the FX input send mix. However inserting FX on input channels can only be done with the Master MixRack channels 1-64.

Q: In Dual-Rack mode do I still have USB data?

A: Yes library items are compatible. Show files are saved with the data from both Master and Slave MixRack settings and can be recalled into another Dual-Rack iLive setup in future. If the file is recalled into a single MixRack system then only the settings from the Master of the Dual-Rack setup file will be used. If this is subsequently overwritten from a single MixRack system then the original Slave rack data will be lost.

Q: Is the Master and Slave status of the MixRacks retained if they are separated after a Dual-Rack setup?

A: Yes; the Master would prompt for a connection to the known Slave unit, if not available then it would work as a single iLive system. The Slave MixRack would remain in Slave status and should be connected to and 'de-selected' by another MixRack before it can go out as a single MixRack Master again.

Q: Can I use the outputs on the Slave MixRack?

A: Yes but you cannot assign to them directly from the touch-Screen or Editor OUTPUTS page of the Master: if you require signals to be outputted from the Slave rack XLRs (or Port-B interface such as M-MMO which has 56 channels across ADAT, iDR 8-bus, & Aviom formats), first assign the signals to Master port-A channels, from that tab on the OUTPUTS menu for the Master rack, then on the OUTPUTS tab for the Slave MixRack, assign the relevant Port-B channels (tie-lines) to the desired XLR or interface. NB if the Slave MixRack is a modular iLive with CHK and MUTE leds for each output, these indicators would not function in this mode.

Q: Can a Dual-Rack system be split digitally to another Dual-Rack system for example for FOH-Monitors applications?

A: Not at the current time. Limiting factor is the Port-A and Port-B interfaces which are 64 channels. 32 channels are used for Slave to Master mix bus transport. A limited split of any 64 of the available 128 channels could be achieved using the Slave Port-B option, so critical input channels plus a 'sub-mix' of other channels may be sent to another system. If the Dual-Rack buss link is done by MADI for example (modular iLive systems) then 32 additional channels from the Port-A transport could be sent to the other system, as M-MADI card have input streaming options. *[this setup is theoretical and has to be tested and proven by A&H]*

Q: Where can I find information on iLive, iLive-T and system setups such as 'Dual-Rack'?

A: iLive website = <http://www.ilive-digital.com>
iLive-T website = <http://www.ilive-digital.com/T>
Knowledgebase / Support = <http://allen-heath.helpserve.com/>