



MADI



Sound By Design MADlrcorder

MADI (Multichannel Audio Digital Interface) is an established standardised audio format that can carry up to 64 channels of audio in a single cable connection, in this case either BNC coaxial cable or dual optical fibres with SC connectors.

The unit, based around a quad-core Pentium PC running Steinberg Nuendo 4, allows the simultaneous recording or playback of 112-channels of 48kHz audio through a dual RME HDSP MADI interface, with both timecode and wordclock daughter boards. This allows the system to accept multiple standard MADI streams (such as from a DiGiCo worksurface or an outside broadcast unit) for recording and playback or send and receive signals to any MADI compatible convertor. It can record to either an internal 1TB RAID array or any number of available external devices due to multiple USB, Firewire and eSATA connections. These recordings (in Broadcast Wave Format) can either be edited within Nuendo or exported into many different industry standard editors such as Digidesign Pro Tools, Apple Logic Pro, Adobe Audition etc.

It is housed in an acoustically treated 4U 19" chassis within a foam sleeved 12U rack complete with a dual-slide 17" screen & keyboard and an uninterruptible power supply. It can be supplied with a number of accessories including the RME MADI Bridge or the RME ADI-648 (see below). Both these units also offer coaxial to optical conversion (and vice-versa) which allows MADI to be transmitted over distances of up to 2km, rather than approximately 100m over coaxial.



HIRE RATE: £400 PER DAY

RME MADI Bridge

Developed as the optimal missing link between MADI devices of any manufacturer, RMEs MADI Bridge is a patchbay, distributor, signal buffer and input selector, all at the same time. Up to 16 devices can be freely connected with each other by 6 coaxial (BNC) and 2 optical input and output pairs.

All input signals are routed unaltered to the desired outputs. Like this, the MADI Bridge supports any format, no matter if it is 56 or 64 channels or includes special invisible control commands, any sample rates and even out-of-spec data rates or violations of the MADI protocol. Thanks to special equalizing and highly sensitive input stages, coaxial cable lengths of 100m can be used, even between several devices.



HIRE RATE: £50 PER DAY

RME ADI-648

This Multichannel Audio Digital Interface offers format conversion from MADI to ADAT and vice-versa.

The MADI channels are transferred from and to 8 ADAT optical inputs and 8 outputs via TOSLINK. Furthermore, the ADI-648 contains an easy-configurable 8-channel 16x16 matrix router. Any of the outputs, which are divided into 8-channel blocks, can be fed from any 8-channel input block, both on the ADAT and the MADI side. With this, there is not only free routing within the M-A and the A-M conversion, but also splitting and routing within the same format. An 8-channel input block can be routed to any number of output blocks in parallel. Using more than one unit, several MADI signals can be combined to one (merging).

The ADI-648 is compatible with all forms of increasing the sample rate (Double Speed). It supplies word clock in single or double speed, distributes 96 kHz signals in Double Wire mode into the MADI data stream, or per Sample Split (S/MUX) to the ADAT ports, but is also capable of double MADI rate (96k Frame).



HIRE RATE: £50 PER DAY