

# Dolby® E Card



The Studer D21m I/O system, used on the Studer Vista and OnAir 3000 ranges of digital consoles, has been further enhanced by an optional I/O card for signals encoded with Dolby® E, (being one of the first console manufacturers to offer such expansion possibilities).

Dolby E is a professional audio coding technology developed to assist the conversion of two-channel broadcast and other facilities to multichannel audio, by providing 8 audio channels in the same space normally used for two. Among other benefits, audio encoded with Dolby E can be edited, decoded, and reencoded many times without audible degradation.

A single optional I/O card accepts any AES/EBU stream containing signals encoded with Dolby E or Dolby Digital, decodes the stream within the input stage and then provides up to two sets of 8 channels to the console.

One D21m I/O frame can take up to 12 of these cards in a 3U rack space, and each card may contain up to 2 decoders, making it possible to decode up to 24 Dolby E streams in just 3U of rack space. Dolby Digital or Dolby E encoded signals may be directly connected to the card's front panel or patched via the console's internal software patch window.

In combination with Studer's D21m SDI de-embedder card it therefore becomes possible to decode Dolby E signals originally contained within an SDI stream.

The "dual" Dolby Digital and Dolby E decoder card also features an automatic switch to a second AES/EBU PCM input in case there is no Dolby E or Dolby Digital encoded signal detected on the main input. For example this allows play back of video tapes with or without material encoded with Dolby E and the card will automatically switch to the correct tracks.

The new card truly represents a space saving for Dolby E decoding functions.

# SDI Card



The SDI Card is an option card available for the Studer D21m I/O system, and allows the de-embedding of the audio stream from an SDI (Serial Digital Interface) signal.

The card accepts the embedded SDI signal via a standard coax BNC connector, and also has a 'Through' BNC connector for passing the original SDI signal unaltered.

Once de-embedded, the audio may be processed by the console and then returned to the I/O system to be re-embedded into the SDI stream for onward transmission via either or both of two BNC outputs.

As a failsafe for signal continuity, the SDI stream will passively bypass the card in the event of a system failure.

Up to 12 SDI cards may be fitted to a D21m I/O system.

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