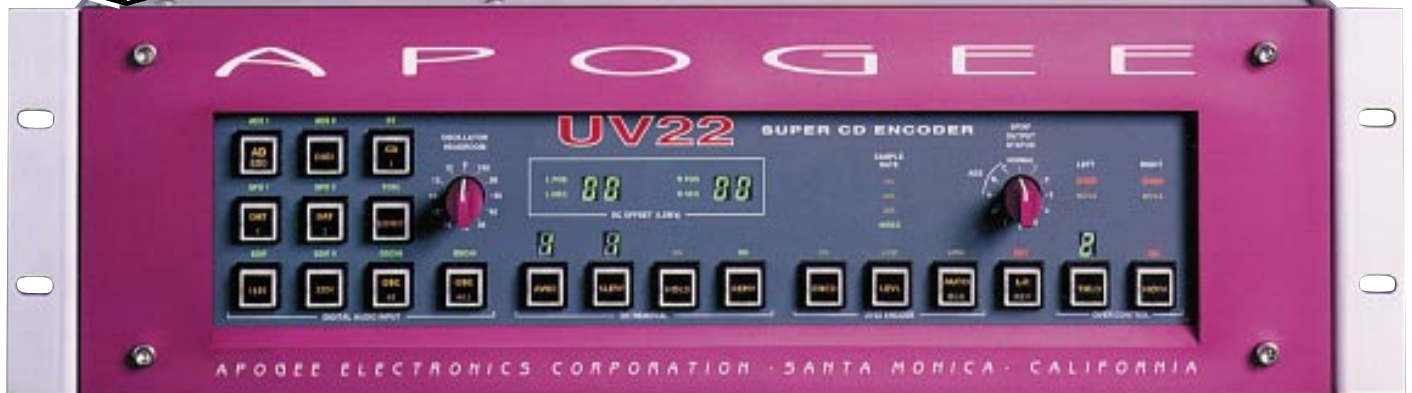


SUPER CD ENCODING

UV-1000 SUPER CD MASTERING SYSTEM

UV22

20+ bits on a 16-bit CD



YOU'VE PROBABLY HEARD of Apogee Electronics' new UV22 process. Unlike bit mapping and noise shaping systems, it doesn't attempt to lower the noise level at the 'most audible frequencies' at the expense of transparent operation. Instead, the noise floor is left at the theoretical 16-bit level – but you can hear clear, undistorted detail as low as 30 dB into the noise.

The UV22 process has 24-bit data handling capability and can encode information from beyond the 20-bit level into standard 16-bit formats.

Basic Specifications

Digital Inputs

AES/EBU1; SPDIF1; SDIF; Toslink Optical
 AES/EBU2; SPDIF2; SDIF II; ST Optical

Selected Input Monitor Outputs (Jitter removed)

AES/EBU; SPDIF; SDIF; Toslink Optical

UV22 Encode Outputs (Jitter removed)

AES/EBU1; SPDIF1; SDIF; Toslink Optical
 AES/EBU2; SPDIF2; SDIFII; ST Optical

All outputs re-clocked with the patented Apogee ultra-low-jitter clock

Digital Oscillator Selectable 44.1/48kHz sample rate, headroom settings include 0, 12, 13, 14, 15, 16, 18, 20, 40, 60, 80 and 100dB @ 1kHz nom.

Direct-select input buttons Illuminate to indicate active inputs. All buttons have user-customizable legends

DC Removal DC offset displayed for L and R in LSBs at 16-bit level. Buttons select: Averaging time, DC removal slew rate, DC Hold, Removal on/off

Auto Black facility Allows digital silence to be inserted automatically

UV22 Encoding Two levels of encoding may be selected: low (2-bit processing) and normal (3-bit).

'Over' Indication May be set to register 1, 2, 3 or 4 'overs'

'Nova' Setting Removes 'overs' automatically by dropping signal level by one LSB.

SPDIF Copy Status Control Allows SCMS and other copy-inhibit transfers

Many of the country's leading mastering engineers have endorsed UV-22, and the UV-1000 is a standard feature in a large number of the world's top mastering facilities. Now you can put UV22 to work for you.

Placed last of all in the mastering chain, the Apogee UV-1000 Super CD Mastering System is more than a UV22 encoder – if that wasn't enough. It is an exceptionally useful package that combines the proprietary UV22 process with comprehensive digital interfaces, direct monitoring outputs, headroom setting facilities, DC offset removal and over control, plus digital switching and format conversion.

The 3U processor features individual illuminated function buttons laid out for easy access, particularly in mastering applications. The combination of the easy to use control surface, exceptional build quality and the wealth of input, output and monitoring interfaces makes the UV-1000 Super CD Mastering System ideal not only for CD premastering, but also for digital transfer bays and production facilities.

Features & Benefits

- UV22: a unique, industry-acclaimed process
- Allows information beyond the 20-bit level to be encoded into a 16-bit medium such as CD
- Improves any CD playback system – no decoder
- Completely 'Red Book' CD compatible
- Clean audio up to 30 dB into the already low (-96dB) digital noise floor
- Noise floor is constant irrespective of input signal
- No coloration of the 20-bit source: holds detail, sound-stage and tonal balance
- Comprehensive input and output formats
- 'Clean feed' monitor outputs in several formats
- Input selectors show signal presence
- Easy-access controls for painless mastering
- Convenient 3U rack mounting unit

Request the UV22 data sheet for details on the process itself

APOGEE ELECTRONICS CORPORATION

3145 Donald Douglas Loop South, Santa Monica, CA 90405. Tel: 310/915-1000 Fax: 310/391-6262
 Email: converters@apogeedigital.com Web: http://www.apogeedigital.com/