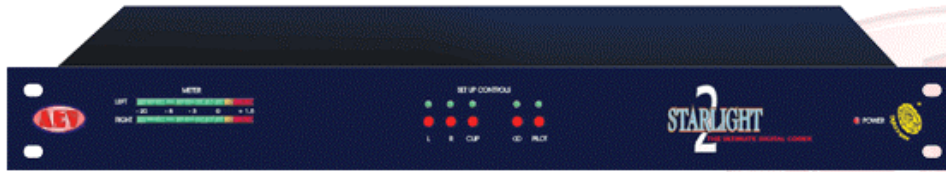




## STEREO CODER AEV STARLIGHT



# STARLIGHT

DIGITAL STEREO ENCODER for Broadcast Applications

### ADVANCED TECHNOLOGY FOR EXCELLENT RESULTS

**Starlight** is a digital stereo encoder for broadcast applications that has been designed using highly innovative technology.

The result is the most advanced that a stereo broadcasting system can offer, with an exceptional array of features.

Besides guaranteeing excellent stereo separation between channels, **AEV's** Digital Stereo Encoder ensures a transparency of sound never before reached, whilst maintaining exceptional stability.

**Starlight** can be installed instantly and can be matched perfectly to any transmission system without calibration.

### STEREO CODER

It employs a digital modulator at a sampling rate of 32x that generates frequencies at 19 and 38 KHz for respectively the pilot and subcarrier. The employment of a great quantity of "samples" offers a better spectrum clarity and maintains the MPX signal constant. The stereo separation levels are constantly over 65 dB.



### COMPOSITE PROCESSOR:

In order to limit the overshoots, Stargate uses "DSP-Filtering" system composed with a couple of digital low-pass filters, an exclusive **AEV** "hybrid", that allows not only a phase linear design, but also dynamically flat responses together with 115 dB/oct slope.

The qualities of this system grant perfect spectrum clarity up to 15 KHz. At the modulator output another "Safety Clipping" stage removes the remaining overshoots produced by the filters.

## **CHARACTERISTICS AND FEATURES**

- Digital generation of 19 Khz pilot
- Very high pilot stability
- Maximum stereo separation
- Audio distortion non-quantifiable
- Electronically balanced audio inputs
- SCA and RDS signal inputs
- Selectable preemphasis 50 - 75 m S
- 19 Khz pilot synchronization