



MULTICODER AEV STARGATE - STEREO CODER + RDS



STARGATE

Stereo Coder + RDS Coder + Composite processor
ALL IN ONE EQUIPMENT

ADVANCED TECHNOLOGY FOR EXCELLENT RESULTS

Stargate is a digital stereo encoder and RDS coder 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.

Stargate 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.

RDS

the latest Satellite-programmable version. Radio Data System is an inaudible, digital information, transmission system, introduced by FM radio stations in addition to audio programs.

The latest radical development of this system now allows programming of the RDS Coder via Satellite, an indispensable innovation that **AEV** has implemented with the creation of the **RDS 4500**.

RDS 4500 is extraordinary, not just because of this latest development, but also for the astonishing price which is guaranteed to surprise you. Designed to the highest standards, **RDS 4500** is an innovative system, highly reliable, simple to operate, created for discerning broadcasters and capable of exploiting today's evolving RDS technology.

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 outputs
- Selectable preemphasis 50 - 75 m S
- 19 KHz pilot synchronization