

DIGITAL TV GENERATOR WITH MPEG-2 FORMAT TS OUTPUT



Since its beginnings, one of PROMAX strongest points, has been the design of instrumentation for TV and Video technical service departments. In particular, the TV Pattern Generators have been among the highest exponents in our technological race.

With the coming of the Digital Television, most part of the signal processing done in professional equipment and television has shifted to the Digital format, in particular, to the MPEG-2 standard which represents the union nexus between all Digital TV transmission systems.

The TS (Transport Stream) is in Digital TV what baseband is in Analog TV; with the correct design of the transferred images, we can generate test patterns able to detect defects on the new Digital TV receivers.

The Multistandard and Multisystem Generator of analogue and Digital television signals GV-998 with MPEG-2 format TS output, is able to generate the necessary signals to verify the most common anomalies that can occur in Digital TV receivers. The output signal of the GV-998 complies with the specified DVB (DVB-PI) standards and it is applicable to the QAM, QPSK and COFDM digital modulators.

Appropriately modulated, the TS is able to generate controlled signals equivalent to those transmitted by satellite, cable or terrestrial antennas systems.

The equipment disposes of an analogue Video and Audio external input. This signals are then converted into CCIR 601 and I2S and multiplexed with the internally generated standard patterns. The selected signal is then applied to the MPEG-2 encoder to generate the TS output.

The equipment disposes of a microprocessor based control to manage the user interface as well as the internal circuitry. Among other applications, it has the possibility to change the format of the transmitted data and permits a remote control via a personal computer.

The GV-998 is a generator designed for maintenance applications, where costs must be reduced. It possesses professional characteristics and a user interface that facilitates the comprehension of the operations, which adapts to the infinite possibilities of this field and to the practical necessities of the maintenance operations.

HIGHLIGHTED CHARACTERISTICS:

- MPEG-2 format TS generation.
- Video and audio included in the TS.
- Video and audio inputs.
- Moving video patterns to check MPEG-2 decoders.
- Generation of a variable frequency sound carrier for decoder verification.
- Possibility to edit different fields of the TS database to present the name of the service provider.
- Remote control via a personal computer.
- Multistandard and multisystem analogue TV signal generation.