

DPRO6

digital audio processor



DPRO6 is a digital multiband audio processor suited for loudness controlling and peak limiting in FM broadcasting, DAB / HD-Radio, DTV, webcasting and post production applications.

The processing audio chain is composed by a dual band AGC, followed by a six bands limiter.

The final clipper is oversampled and is optimized for digital clipping artifacts reduction, allowing for a clear and natural sound.

The loudness limiter can equalize the perceived loudness among different audio program sources such as live shows, commercials, films, music videos. It operates according to the ITU-R BS1770 standard.

The D-TV version is equipped with SDI audio embedder-deembedder with automatic bypass in case of failure.

This version can process the audio stream already embedded into the SDI signal, or can be used as an audio embedder to insert the audio coming from an external source into the SDI signal.

An adjustable delay line will help in lip-syncing the embedded audio to the incoming video.

Technical features:

● Analog audio input

Sampling frequency 48KHz/24bits

Input level +12/-12dBu

XLR connectors, electronically balanced

● Digital audio input

accepts AES/EBU and SPDIF sample rates from 32 to 96KHz, XLR connector with balanced transformer.

● Analog audio output

Output level +12/-12dBu

XLR connectors, electronically balanced

● Headphones output

1/4" front panel jack

Output: 100mW RMS over 50 ohm

● Latency

Audio processor 8mS

● SDI Interface (DTV version)

1 SDI BNC 75 ohm input

2 SDI BNC outputs, one with auto bypass in case of equipment failure

Lip sync delay 0 to 170 mS (up to 1350 mS on request)

● Loudness control (DTV version)

ITU 1770

● Remote control

All functions can be managed remotely with an included software.

● Interfaces

RS-232 (standard on all models)

Ethernet streaming card (optional)

Ethernet UDP card (optional)

● Power supply

100-240VAC 50/60Hz

● Physical

1 x 19" rack unit

44mm x 483mm x 156mm

Weight 2,5 Kg

ITEL Elettronica e Telecomunicazioni

Via S.Penna 82 - 06132 Perugia (PG) ITALY

Tel - Fax: +39 075 7829669

Email: info@itel.it Web: www.itel.it

