Falcon Three SDI

All the Available Audio

FALCON THREE TV is a 3 Bands fully digital TV Audio Processor and Loudness control unit, resulting from a long-time experience of **AxelTech** team made up of TV technicians, psychoacoustic experts and designers specialized in the development of professional audio equipment based on DSP technology.

FALCON THREE TV is a full digital, stand-alone mono and stereo TV audio processor controlling the TV audio loudness, dynamics and equalization to provide an always pleasing and highly intelligible TV listening. In all the TV purposes on field, all audio is applied to a single transmission audio processor that automatically controls the average modulation and the peak-to-average ratio while smoothing out transitions between program elements while a simple compression and peak limiting cannot do this effectively.

Power of the Control

Based on a powerful and effective Automatic Gain Control, **FALCON THREE TV** processor acts also in the full respect of original audio levels by avoiding, at the same time, the over modulation peaks and the tiresome loudness drops between different programs.

The **FALCON THREE TV** allows an effective automatic loudness control under ITU-R BS1770, and offers new input and output capabilities: Analog Left+Right balanced over XLR connectors, Digital AES/EBU over XLR connector and the support for SDI over BNC connector. The input pre emphasis is selectable between 0, 50 or 75 used. Moreover, the audio input signal coming from Analog or Digital path, can be routed and embedded into the SDI video signal.

We are in
Perfect Harmony

FALCON THREE TV is an audio processors specially designed for TV, DVB-T and DVB-S and Web broadcasting.

FALCON THREE TV features the most up-to-date technologies, digital multiband processing architecture.

FALCON THREE TV manages the audio/video sync fine tuning and guarantees perfect audio and video

sync. Fine adjustments on audio delay enable perfect audio video alignment.

A powerful software comes free of charge, giving total control over all parameters such as input gain, ITU control, delay lip-synch, output level, pre emphasys etc.

The comprehensive communication features of these processors can be operated by simple local RS232 connections, telephone PSTN/POTS modem, or via Lan/wan. The password protected built-in web server displays operations in real-time directly in your Lan or all over the world.

FALCON THREE TV supports HTTP, TCP/IP, UDP/IP, Telnet and SNMP protocol.

The front panel features 1 LCD displays, a rotative encoder and a headphone monitor output, everything carried in a 1 rack unit rugged box. Power supply designed for worldwide operation 110Vac 60Hz or 230Vac 50Hz.

Main Features

- Digital TV Audio Processor 3-Band

- Powerful AGC on the entire audio band

- Protection against audio over modulation

- LOUDNESS Control: ITU-R BS1770 Compliant

- Analog and AES/EBU

- SDI Input and Output

- Real Lip-Sync audio/video

- Flexible, dynamic and user friendly

- Remote control via Serial

Manual

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