

Automixer - 5.1

Overview

The Automixer - 5.1 is a Processor for combining two 5.1 program sources with additional mono voice signals. It provides input conditioning, automatic upmixing, equalization, level control, voice-over processing, mix-minus generation, downmixing, output conditioning, limiting, and metering in one processing chain.

The Processor is intended for surround program production workflows where program audio and voice signals need to be mixed, controlled, and delivered in multiple output formats.

Typical Applications

Typical applications include:

- 5.1 broadcast program mixing
- Voice-over integration into surround program audio
- Mix-minus generation for production and contribution workflows
- Clean mono output generation
- Program downmix generation
- Loudness-controlled surround output processing

Included Modules

The 5.1 version includes the following processing and measurement stages:

- Input Meter
- Input Conditioner
- Auto Upmix
- Equalizer
- Level Magic
- Voice Over
- Mix-minus
- Downmix
- Matrix Mixer
- True Peak Limiter
- Output Conditioner
- Output Meter
- Loudness Measurement

The signal flow includes separate input conditioning for program and mono voice signals, followed by upmixing, equalization, level control, voice-over mixing, mix-minus generation, downmixing, output limiting, output conditioning, and measurement.

Channel Formats

This article describes the Surround (5.1) version.

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