

# eela-audio

# S50 Reportomix



## **S50 REPORTOMIX®**

The EELA AUDIO S50 is a portable, battery powered stereo- or two channel mixer with all the facilities for use in the field built in. Applications can be found in television ENG/EFP, film sound recording and radio.

Full length Penny & Giles faders.

4 modular input channels with transformer balancing.

48 Volt phantom powering on microphone inputs.

Low impedance transformer balanced outputs.

Standard XLR-type connectors.

Universal powering, internal batteries offer a full days work on one charge.

Built-in switchable compressor / limiter.

Talkback facilities with internal microphone.

**EA Broadcast / Eela Audio, Het Riet 8 A, 5431NM Cuijk, The Netherlands**

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# S50

## Reportomix

The S50 offers universal powering from the internal batteries or rechargeable cells, an (external) mains supply with built in charger or an external 12 to 18 Volt DC source such as a car battery, camera power supply etc. The current consumption is about 60 mA, which allows a full day working on one set of batteries.

In keeping with the superior performance, full length Penny & Giles conductive plastic faders are used to provide the facility normally found on large mixers. A spring load on the slider prevents accidental moving when the mixer is used as a portable device.

The 4 (modular) input channels have a transformer balanced input for mic-or line level signals preceded by a very effective RFI-filter to enable use in the vicinity of transmitters. A switchable 48 Volt supply for capacitor microphones is also provided.

Each input has a gain control with 50 dB range, a high pass filter with 12 dB/oct slope and a continuous variable threshold frequency between 30 and 300 Hz.

The AUTO-PFL system allows individual inputs to be accessed, where both the headphones and the meters change over to the PFL signal when depressing a channel PFL button.

Routing is achieved with two individual push buttons to the A and/or B outputs. Each input has a peak-indicator LED which illuminates when the channel level is 3 dB below clipping.

The master modules for the A and B outputs both have a VCA-controlled compressor/limiter, switchable as a limiter only or as continuous variable slope compressor with automatic increasing slope to limit. Timing is a dual time constant network with a fast release for short peaks and a slow gain riding for overload of longer duration. When the limiter is switched off, the threshold is raised to +12 dBm, to prevent clipping of the outputs.

Outputs are low impedance (50 Ohm) transformer balanced and suitable to drive lines down to 600 Ohm.

The master also offers individual talkback, using an internal microphone with limiter and a 10 dB dimming of the input signal when talkback is in use.

The talkback signal can be replaced with a 1000 Hz oscillator for lining up.

Monitoring is provided on headphones for aural and VU-meters for visual check. The system has a source selector with a rotary switch for selecting both outputs in mono or stereo or the two transformer balanced return inputs, individually or as a stereo pair.

The AUTO-PFL circuit can be set internal by jumpers to change over one or two sides of the headphones to the PFL signal. When one side is selected the other side gives a mono mix of the left and right side. The VU-meter is always following the source for the headphones.

A switch on the right side of the mixer changes over one meter for battery check.

Connections for outputs and return will inputs are standard XLR's on the right side panel

An external power input connector enables connection of a mains supply / charger or an external 12 to 18 Volts DC source. When this is in use, the internal cells are switched off and act as a backup supply in case the external supply fails. Charging of the batteries will continue as long as the charger is connected.

## TECHNICAL SPECIFICATIONS S50 REPORTOMIX®

### Inputs:

4 mic/line inputs, two return (monitor) inputs, all transformer balanced.  
Input impedance 1.2 kOhm for microphone, 6 kOhm for line, 12 kOhm for return.  
Phantom power +48 V

### Outputs:

2 main outputs, transformer balanced, one stereo headphone output.  
Output impedance 50 Ohm, output level +6 dBm nominal, +12 dBm maximum.

### Gain:

maximum 76 dB.

### Filter:

Low cut filter, 6 dB/oct, frequency variable from 30 to 300 Hz.

### Meters:

Sifam VU instruments following the monitor selector.

### Limiter:

Slope variable in compression from 2:1 to 20:1, or 20:1 in limit.  
Attack time 5 msec, release program dependant (.3 / 3 seconds).

### Power:

10 x R6/AA cells, either dry cells or rechargeable batteries.  
Power consumption 60 mA, charge current 50 mA.

## ACCESSOIRES

- S50 charger with batteries
- Robust leather carrying case.



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Top layout



Mic / line inputs with rotary switches

Gain / highpass

**For information and prices please contact:**



General Specifications S50 Reportomix:

**Power Supply / charger:**

110 / 230V 50/60 Hz mains

**Dimensions:**

Width: 286 mm

Depth: 220 mm

Height: 74 mm

**Weight:** approx. 2,5 kg

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