

eela-audio

SRM Broadcast mixer



MAIN OUT

Main outputs are transformer balanced signals on XLR's for driving the transmitter or studio transmitter link without any problems with interfacing.

TAPE OUT

The same signals unbalanced on PHONO connectors for the RECORD inputs of recording equipment.

METER

Main out is permanent displayed on the internal LED PPM, a stereo 19 segment meter with DIN standard ballistics and a range of -40 to +3dB with reference to the nominal +6 dBu output level.

LIMITER

An internal limiter guards the output level in a unique and practice oriented way: the output level is measured and compared to a reference. If the output exceeds this threshold, a control voltage is generated and applied to all channel VCA's resulting in a gain reduction. This means that all postfader signals, like foldback, telephone sends etc. are also held under control. The limiter action is displayed by a LED in the meter area.

CONTROLROOM MONITOR

Four circuits are available: CR loudspeakers, CR headphones, external meter and CUE loudspeaker.

CR LOUDSPEAKERS

To be selected to desk output or to an OFF AIR receiver for a check of the entire transmission path. Can be set to automatic change over to the CUE system.

Automatic MUTE on opening of a control room microphone channel and DIM on using the talkback facilities.

CR HEADPHONES

Reproducing the same signals as the loudspeakers without influence from MUTE- and DIM functions.

EXTERNAL METER

Connections for a second meter, wired to the control room monitoring, that can be used for pre-set or checking an input channel via the CUE system.

CUE LOUDSPEAKER

An output for a small speaker, wired to the CUE signals with DIM and MUTE action. This speaker can be mounted in the optional meter bridge or you can use a stand alone active speaker.

SIGNALIZATION

An opto-isolated output for driving RED LIGHTS via a suitable interface (e.g. EA862 red-light relays unit) on opening of one or more CR microphones.

STUDIOMONITOR

Two circuits, one for studio loudspeakers and one for presenters headphones. Can be used with EA853 studio interface.

STUDIO LOUDSPEAKER

Reproduction of all post fader signals, except those from studio microphones to prevent feedback. Can be dimmed and overridden with talkback, unless a studio microphone is opened.

STUDIO HEADPHONES

To be used by a presenter hearing a main mix. Talkback is always possible. The talkback source is jumper selectable and can be the internal microphone with limiter or a prefade output from a control room microphone.

SIGNALIZATION

An opto isolated output for driving RED LIGHTS in the studio to indicate open microphones there.

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GENERAL SPECIFICATIONS:

Voltages in dBu are referred to 0 dBu = 0.775 V
Fader position is at the 0 mark
Balanced outputs are loaded with 600 Ohms
External sources have an impedance of 200 Ohms
Noise measurements are unweighted RMS, 22 Hz to 22 kHz
Signal to noise ratio's are referred to + 6 dBu

FREQUENCY RESPONSE: 20 Hz - 20 kHz (0, -1dB)
HEADROOM: > 20 dB
CROSSTALK: stereo channels < - 60 dB
mono channels < - 70 dB
fader cut off < - 100 dB

SIGNAL TO NOISE: All faders closed - 86 dB
One channel unity gain - 80 dB
Equivalent input noise microphone channel - 126 dBu

DISTORTION:
Mic.- or line input with nominal output < 0.03%

INPUTS:	min. gain	max. gain	impedance
Microphone	28 dB	78 dB	1700 Ohm
Line	0 dB	21 dB	90 kOhm
Telephone	0 dB	21 dB	600 Ohm

OUTPUTS:	nom. level	max. level	impedance
Balanced outputs	+ 6 dBu	+21 dBu	40 Ohm
Unbalanced o/p	+ 6 dBu	+21 dBu	50 Ohm
Telephone send	- 4 dBu	+10 dBu	600 Ohm

LIMITER:
Threshold (fixed) + 6 dBu
Attack time 10 mSec
Release time (program dependant) 0.3 to 3 Sec
Ratio (program dependant) > 40 : 1