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Broadcast products

SRM On Air mixer

Product Information

The SRM is the answer to the requirements of today's local and community radio stations. It is a complete, reliable high quality mixer for broadcasting. The SRM offers almost all facilities and automatic functions which are normally found in much larger and much more expensive radio desks. The clear layout of the console makes it easy to operate by non-technical people.

Frame: CH18 with optional Meterbridge

SRM configuaration:

- S71 Microphone input;
- S72(E) Stereo Line input (with or without equalizer);
- S73 Telephone I/O module with internal hybrid;
- Frame sizes: CH18, CH24 or CH30;
- Optional meterbridge with
- CUE speaker and 2 or 4 VU meters;

Standard facilities:

- Off Air Listening input and control;
- Separate meter output (follows CR monitor signal);
- Cue LSP output;
- Separate Studio LSP and HPH output;
- Faderstart, Pulse or continuous start/stop;
- Transformer balanced main outputs

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MICROPHONE INPUT S71

Can be configured for a controlroom microphone when the console is used in SELF-OP or for a studio microphone with full logic interlocks. The status is set by a switch situated on the rear panel. In the CR-status, CUE is not available (for safety reasons to prevent feedback). The post fader signal is mixed in with the studio loudspeaker foldback mix and the fader action is linked to the CR signalling- and mute bus.

INPUT: it is differentially balanced on an XLR connector, and supplies + 48V phantom power to condenser microphones and is fully protected against misuse.

GAIN: can be set over a 50dB range to accept all kinds of microphones in all practical situations.

FILTER: an internal jumper inserts a LOW CUT FILTER to prevent unwanted low frequency noise to enter the mix.

3 band EQUALIZER: has a restricted range, tailored to direct ON AIR use of the console.

PANPOT: positions the signal anywhere in the stereo mix.

FADER: generates a DC-voltage to control the channel VCA, the actual level setting device.
Other inputs that control the VCA are the LIMITER circuit for overload protection and a signal from the COUGH SWITCH in the studio. The latter facility is only available in the STUDIO status, and closes the fader while opening the CUE path. This gives a REVERSE TALK- BACK function from the control room initiated by the studio. This action is indicated by a LED.

CUE SWITCH: sends the pre- fader signal to the CUE system, only when the fader is closed. This function is used quite often to make continuous contact with the studio.

OUTPUTS: are generated for the MAIN STEREO, the loudspeaker- and headphone FOLDBACK busses and the CLEAN FEEDS for telephone

return signaI.

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STEREO LINE INPUT S72

Designed for the direct connection of balanced of unbalanced source equipment. A version with built in RIAA preamplifiers is also available.

INPUTS: are unbalanced on PHONO plugs with impedance and gain designed for the purpose.

EQUALISER: available as an option with the same curves as the one in the microphone channels. S72 stereo line input without e.q. S72/E is with e.q.

BALANCE: to obtain the correct balance between the left and right signals.

FADER: generates a DC-voltage to both channel VCA's for left and right with very accurate tracking. The LIMITER also controls the gain of the channel VCA in case of over modulation. Opening and closing of the fader generates (opto-isolated) output signals for remote control of machines. The character of the signals can be set to continuous or pulsed by an internal jumper. All faders are PENNY & GILES plastic conductive faders for all inputs.

CUE: a stereo prefader listening facility, only when the fader is

closed and a LED indicates the status.

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TELEPHONE IN/OUTPUT S73

A complete input/output channel with built in HYBRID for direct connection to PTT line and telephone. A maximum of two such modules can be used in the SRM with automatic cross conversation when on air.
The rejection of the SEND in the received signal can be optimised by an internal trim.

The S73 is very user friendly because of the following:

- CHANNEL INHIBIT when no line is connected. Then the fader is closed and the CUE and TALKBACK are inactive.

- Delayed channel "switch on" to prevent noise on switching the hybrid to the line.

- Internal DUCKING of the RECEIVE signal by the SEND signal for improved rejection and less coloration of the mix.

- COMMUNICATION off air possible via talkback- and CUE system safeguarded by the position of the fader.

- CALL INDICATION by a blinking LED adjacent to the ON button.

Connections are made with screw type terminals for both

line and telephone.

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MASTER S76

MAIN OUT: main outputs are transformer balanced, with XLR connectors, to drive transmitters or transmitter links with the correct interface.

TAPE OUT: the same signals unbalanced on PHONO connectors for the inputs of recording devices.

METER: the main output is permanently displayed, On the internal LED PPM, a stereo 19 segment meter with DIN standard ballistics and a range of -40 to +3 dB w.r.t. the nominal +6 dBu output level.

LIMITER: an internal limiter controls the output level in a unique and practical 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 and causes a gain reduction. This means that all post fader signals, such as foldback, telephone sends etc. are also held under control. A LED displays the limiter action in the meter area.

CONTROL ROOM 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, to check the entire transmission path. Can also be set to automatic changeover to the CUE system. Automatic MUTE on opening of a controlroom microphone channel and DIM on using the talk back facilities.

CR HEADPHONES: reproducing the same signals as the loud- speakers without influence from MUTE- and DIM functions.

EXTERNAL METER: connections for a second meter, wired to the controlroom monitoring, that can be used for pre-setting 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.

SIGNALLING: an opto-isolated output for driving RED LIGHTS via a suitable interface on opening one or controlroom microphones.

STUDIO MONITOR: two circuits, one for studio loudspeakers and one for presenters headphones.

STUDIO LOUDSPEAKER: reproduction of all postfader signals, except those from studio microphones for a safe foldback. Can be dimmed and over ridden with talkback, unless a studio microphone is opened.

STUDIO HEADPHONES: to be used by a presenter in the studio, fed with a total mix, and with talkback always possible. The talkback source can be selected by a jumper and patching from an internal microphone with limiter or prefader output from a controlroom microphone.

SIGNALLING: an opto-isolated output for driving RED LIGHTS in the studio to indicate open

microphones.

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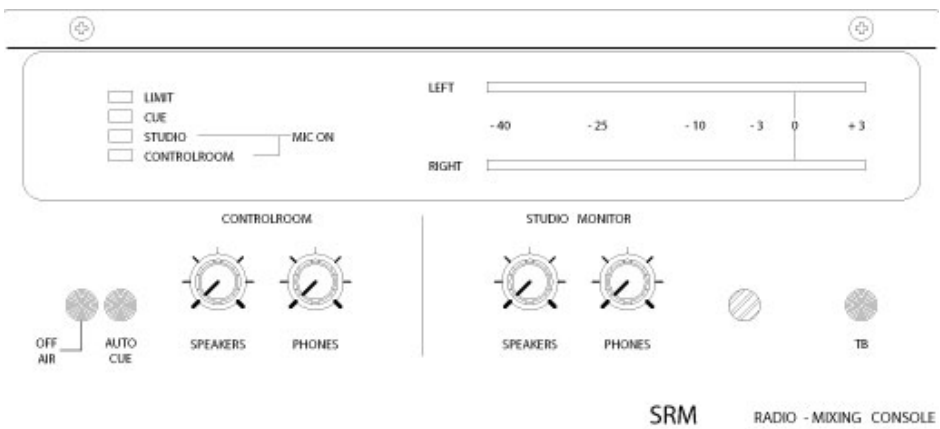
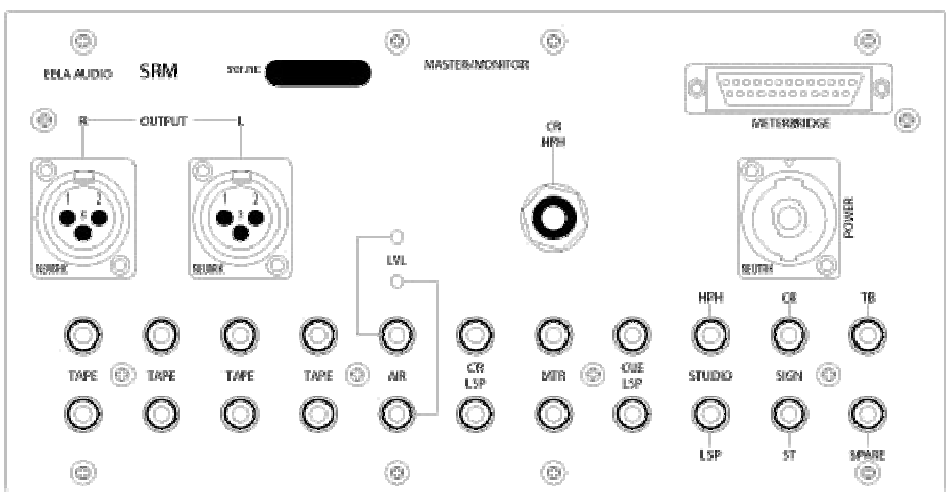


S76 Monitor and meterpanel



SRM Main connector panel

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Options and additional units:

Meterbridge is available as an option in different frame sizes. It holds a PFL / CUE Loudspeaker and 2 or 4 V.U. meters or a LED PPM.

The most important addition is the EA853 4-way headphone amplifier / studio interface with separate audio circuits for presenter and guest. It features individual level control for 4 headphones, red-light signaling and a cough-button to open communication to the C.R.

The EA862 is an electronic switching unit for "on-air" lamps 110/230V. Mains voltage is switched with solid state relays. The 2 inputs and 3 outputs for Studio, C.R and both.

For other modules available see separate brochure.

Please contact your local EA dealer for more information about Eela Audio products.
All information can be subject to changes. Product brochure version: April 2005
Internet: http://www.eela.nl e-mail: sales@eela.nl

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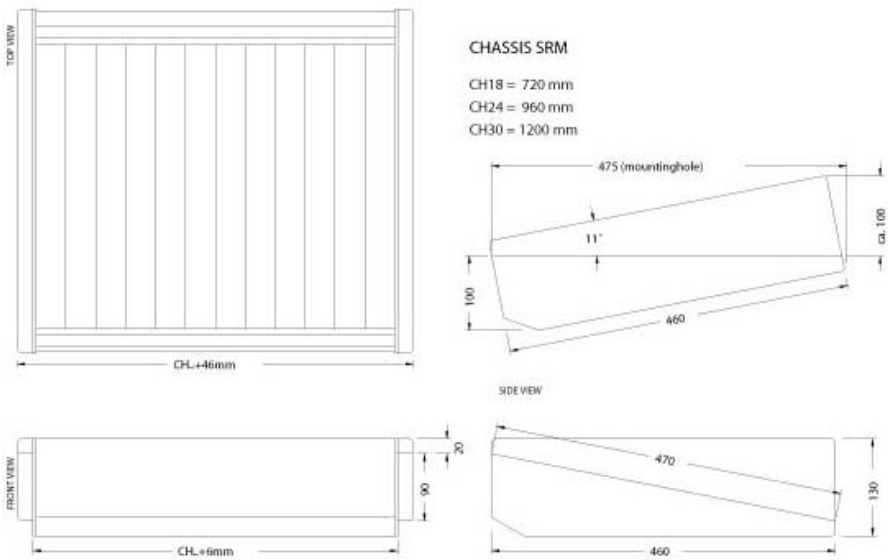

For information and prices please contact:

<u>General Specifications SRM mixing desk</u>

Power Supply:

110 / 230V 50/60 Hz mains

Dimensions:

Width:	see drawing
Depth:	460 mm
Height:	130 mm