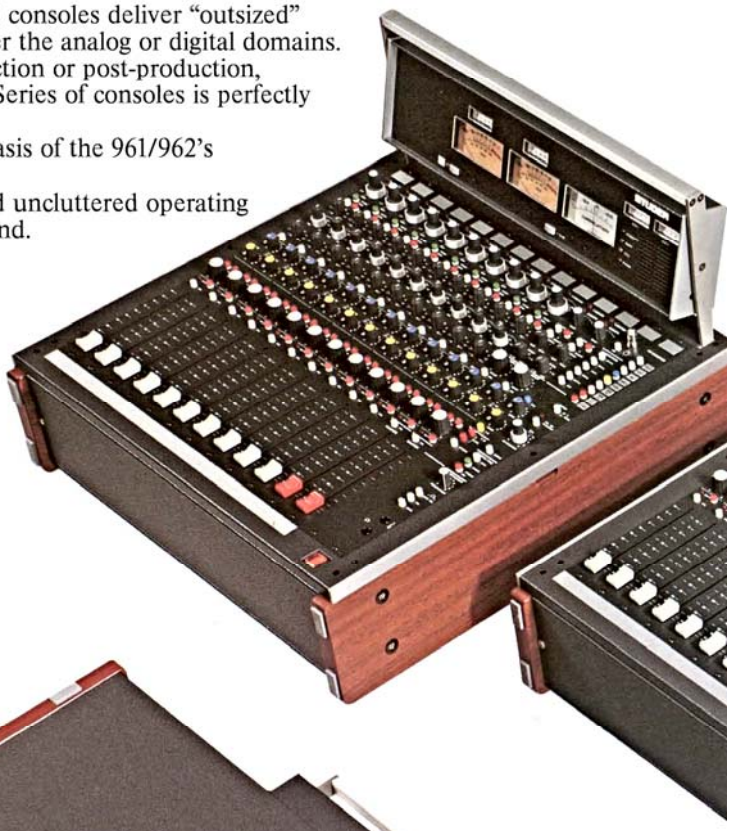
STUDER



STUDER SERIE 961/962
Series of Portable Mixing Consoles

Compact mixing consoles with a wide range of applications

Big performance from a small package. Compact and portable, the 961/962 consoles deliver "outsized" performance wherever top quality, professional audio is required – in either the analog or digital domains.
Highly flexibile. In the studio, in OB or remote recording, in audio production or post-production, in the control room, or for sound reinforcement in theaters: the 961/962 Series of consoles is perfectly adaptable to the user's requirements.
Highly reliable. Innovative refinement of proven technology: that is the basis of the 961/962's extraordinary record of reliability and dependability.
Highly convenient operation. 30 mm modules result in a compact, neat and uncluttered operating surface. The controls are logically arranged with the audio engineer in mind.





Portable studio convenience

On location, the sturdy flight case unfolds with minimal set-up time into a comfortable audio mixer. If necessary, the 961/962 can be operated without mains connection using an optional DC converter.



Mobility in the studio

The 961/962 is ergonomically designed for flexible integration into the studio environment without sacrificing any of the features that make it such an excellent portable console. Available with either the standard instrument panel or with optional modular panel components from the 900 Series studio mixing console.

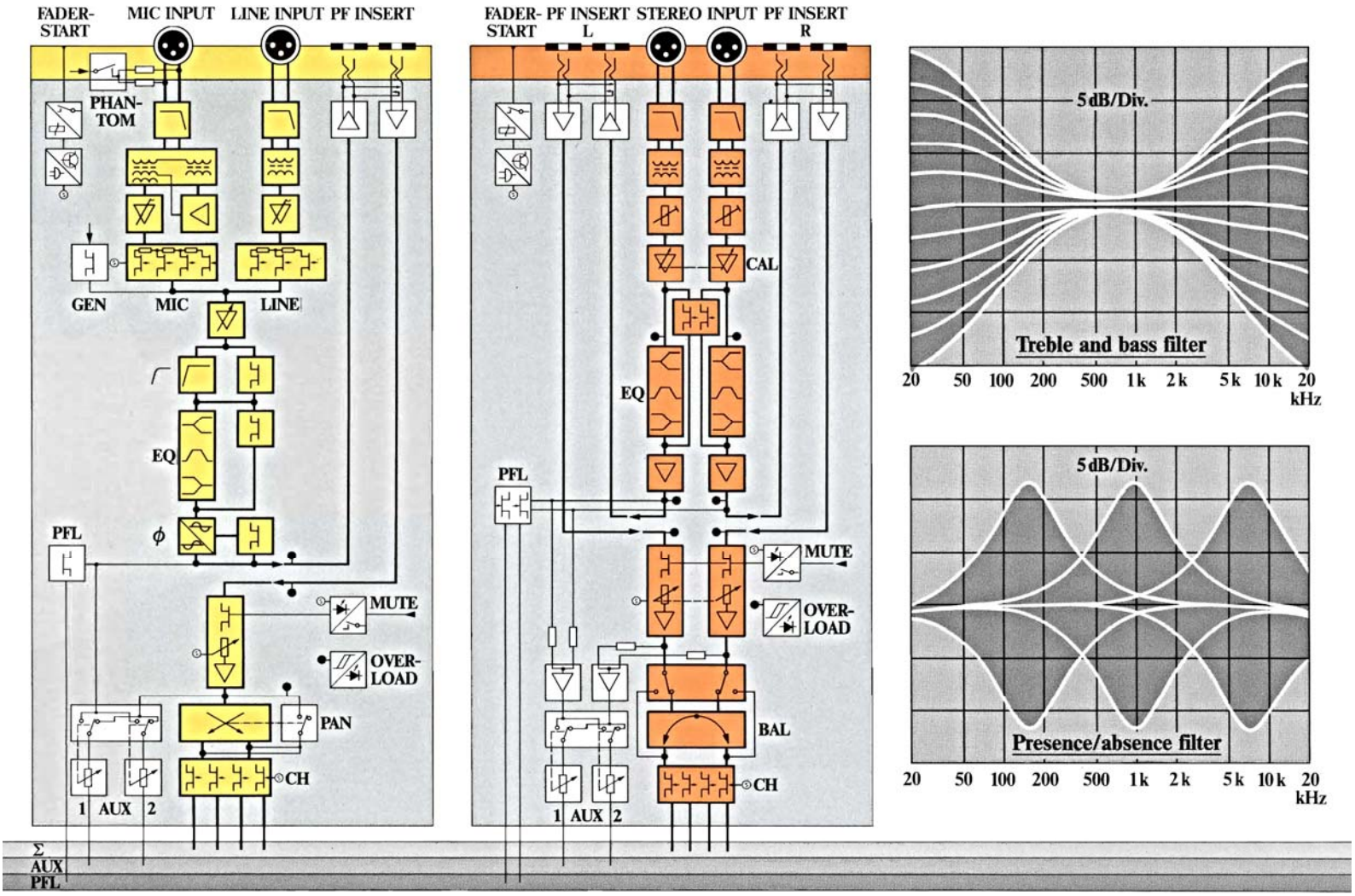
Adaptable

The fully modular plug-in design of the 961/962 makes individual channel configuration possible. Two different size baseframes accommodate 14 or 20 modules respectively. Two slots are reserved for both the monitor and the talkback modules. Depending on the channel configuration of the mixing console, two to four additional slots are occupied by master output modules. All other slots are available for custom configuration with modules from a complete line of mono and stereo input units.

Upgradable and Expandable

If additional inputs are required, there are two possible alternatives: using a mixing console coupling kit, or a slave mixer. With the coupling kit, a bus interface is used to join the inputs of two separate 961/962 mixing consoles. In this configuration, input capacity can be increased by the number of inputs available in the coupled mixing console. With the slave mixer – an expansion unit fitted only with input modules built in a 961 or 962 frame and coupled to a 961/962 master console – up to 18 additional inputs become available.

Modular plug-in concept:
For maximum use of a comprehensive range of functions



Mono input module

Using electronic, click-free selection, the mono input module is switchable to three input sources:

- Microphone input: balanced and floating with continuously variable input sensitivities from −70 to −10 dBu, or in 15 dB steps. Maximum input level is +6 dBu. The patented circuit (US PAT. 4,567.442) performs in the same manner as an active balanced input. The 48 V phantom power supply is on/off switchable for every Mic input.
- High-level balanced and floating line input with sensitivity from −10 to +24 dBu that can be varied continuously or in 15 dB steps.
- Generator input for connecting the built-in test oscillator: five fixed frequencies with adjustable level from 0 to 15 dB.

Additional features include: a phase inverter switch that acts on all input sources, a switch-controlled high-pass filter (bass cut) with a cutoff frequency of 75 Hz, a master selector for two or four master buses and a panorama potentiometer (switchable).

Stereo/high-level input module

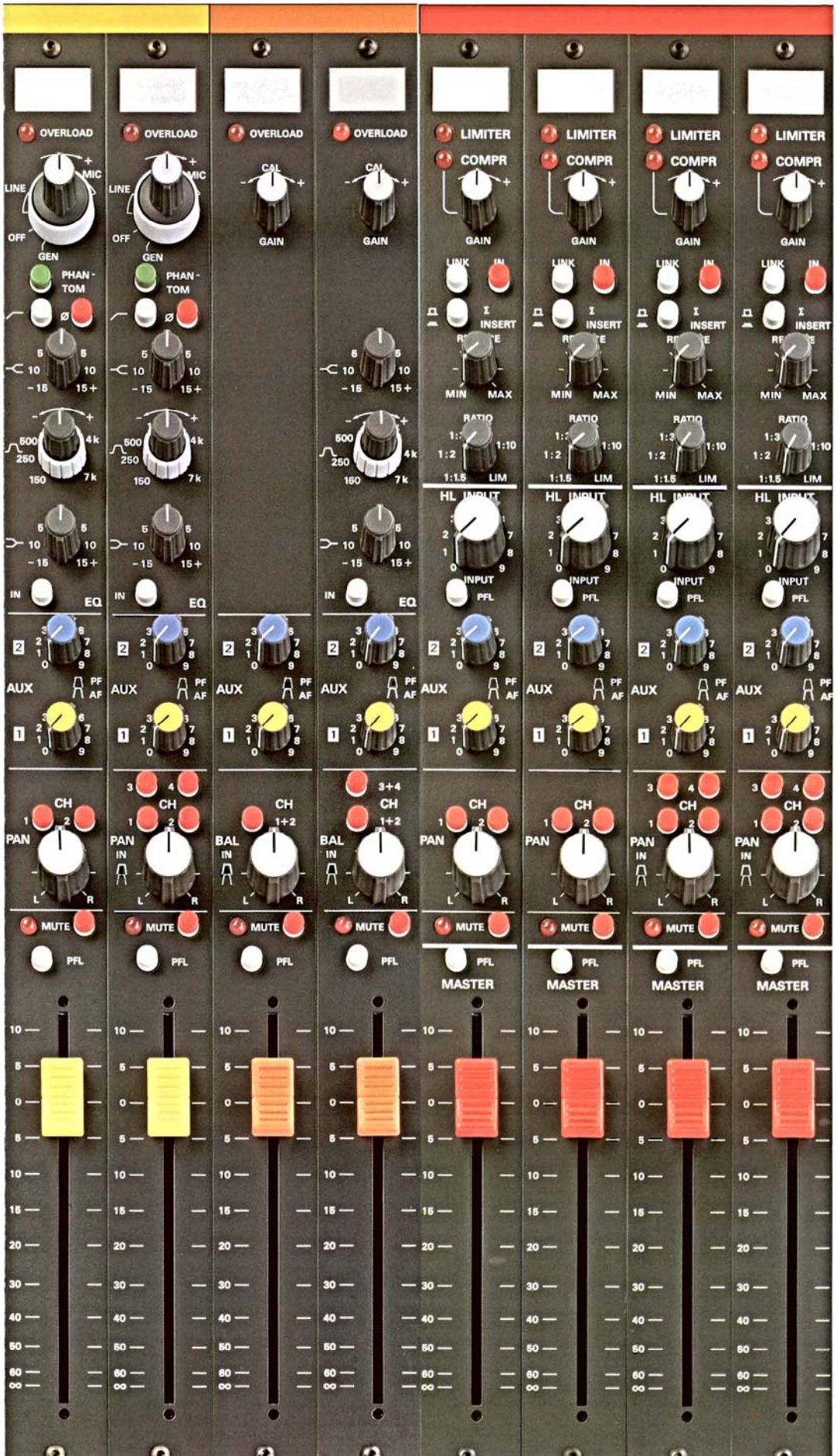
- Balanced and floating high-level input for mixing stereo signal sources with studio level
- Input sensitivity factory aligned to the nominal level specified by the customer
- Fine level-adjustment for calibrating the input gain by ±10 dB
- Master selection, for joint selection of the master buses 1+2 or 1+2/3+4
- Balance potentiometer (switchable).

Standard features

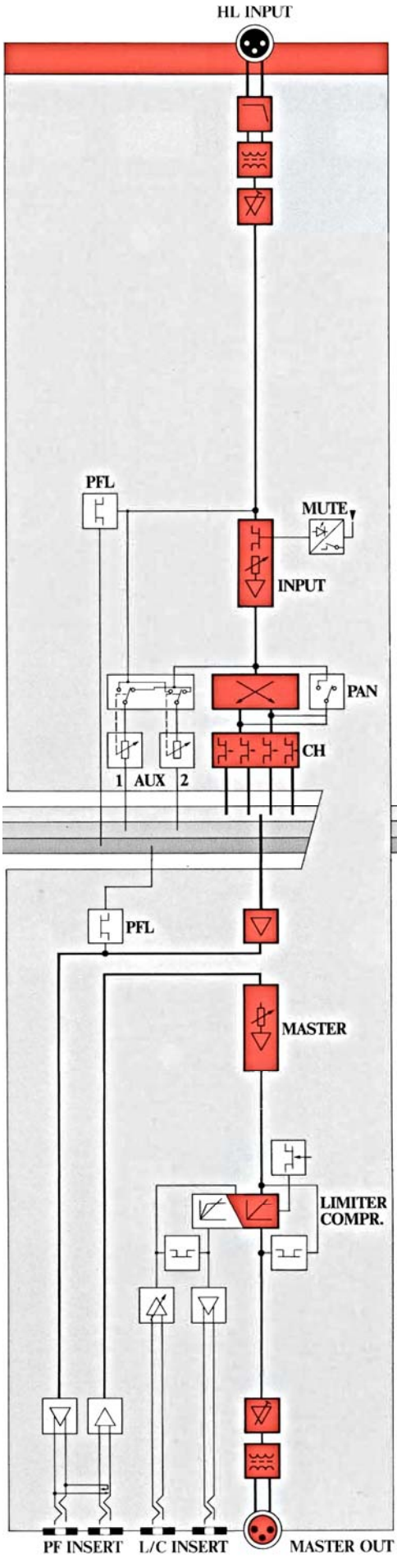
- Overload indicator: signals that the admissible level before or after the fader has been exceeded
- Two individually adjustable auxiliary outputs AUX1/AUX2, connectible before or after the fader
- 3-band equalizer: connectible treble and bass filters (±15 dB) combined with a presence/absence filter with center frequency (150 to 8000 Hz) adjustable within the range of ±12 dB
- Mute key: mutes the input channel electronically (click-free), remotable, with status indicator LED
- Prefader listening of the mono or stereo signal
- Precision conductive plastic fader with 100 mm travel (stereo version, mechanically coupled)
- Fader start logic detects the input operating state and enables the fader start (relay contact)
- Signalization logic detects the input operating state for correct studio signalization
- Electronically balanced PF insert for each input channel. Insert level +6 dBu.

Input modules

Output modules



High-level input
Master output
Limiter Compressor



Three function groups are combined in the master module:

...Balanced and floating high-level input

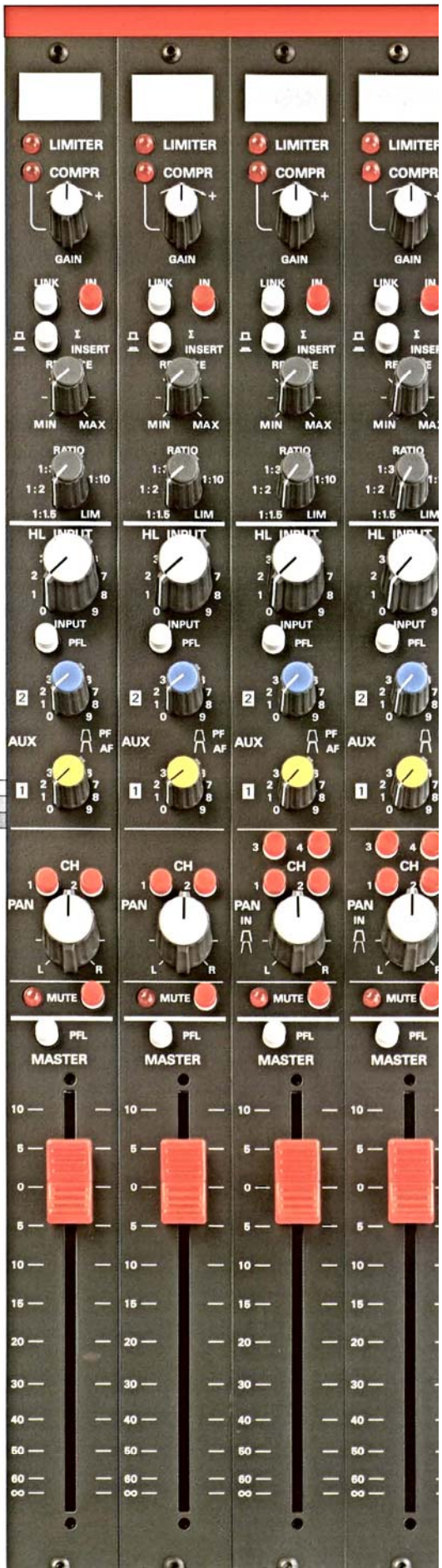
Internally aligned to the nominal level specified by the customer ● Master selection for two or four master buses ● Switch-controlled panorama potentiometer ● Two individually adjustable auxiliary outputs AUX1/AUX2, connectible before or after the channel fader ● Electronic channel mute button, remotable with status indicator LED ● PFL signal path.

...a master output channel

● Precision conductive plastic master fader with 100 mm travel ● End contacts for fader start, signalization, and muting logic ● Electronically balanced insert points before the master channel fader, with nominal insert level of +6 dBu ● PFL button.

...a limiter/compressor circuit

● PDM-type, selectively connectible to the master output as a line protection limiter or to the input channels as a compressor ● Compression ratio adjustable from 1:1.5 to 1:20 ● Adjustable (program-dependent) release time ● Stereo coupling link for two master channels ● Indication of the gain reduction via GRM instrument ● Additional channel amplification before the compressor section, adjustable with potentiometer.



Meter panel
Connector panel



The meter panel: professional functionality throughout

The clear layout of the large, functional meter panel provides critical program information at a glance. Large precision moving coil meters (VU or Peak) indicate output channel levels. Meter sensitivity can be boosted by 20 dB via a key. Separate meters indicate the amount of gain reduction of the built-in limiter/compressor. AUX1/AUX2 level indicators are provided for the two auxiliary outputs. A correlation meter is available optionally for checking the mono compatibility of stereo program material. FAST key enables PCM-compatible peak level indication. The PFL speaker can be muted automatically or manually. Status indication of the audio signalization circuits is provided.

A flexible connector panel for fast setups

Full features and clear, logical layout are primary characteristics of the Series 961/962 system concept. The design of the connector panel reflects these concerns, extremely important requirements for fast setup and flexibility during production. All inputs and outputs are balanced and floating on XLR sockets. Electronically balanced insert points for all main paths and the compressor/limiter path, as well as remote control connectors for channel muting and fader start are provided. Multipin D-type connectors provide access to the control room and studio monitor function such as prefader listening, intercom, signalization, insert source preselection, tape/source monitoring, etc.



AUX Master 1/2
Studio intercom
Studio insert
Test tone generator

Control room monitoring
PFL Facility
Studio signalization
Programm selection

Monitor modules

AUX Master module / Studio monitor

● Two individually adjustable auxiliary masters (AUX1/AUX2) with balanced and floating outputs ● TB keys for talkback via auxiliary channels ● Studio monitor (optional) with five source selection keys for selecting the master output, the control room monitor and external program sources ● Level potentiometer for monitor output ● Intercom via built-in TB microphone. Key for talkback via studio monitor with automatic muting (defeatable). Keys for talkback via the master outputs. Volume control for the studio intercom signal ● Test tone generator with five fixed frequencies, connectible to any mono input module.

Monitor expansion module

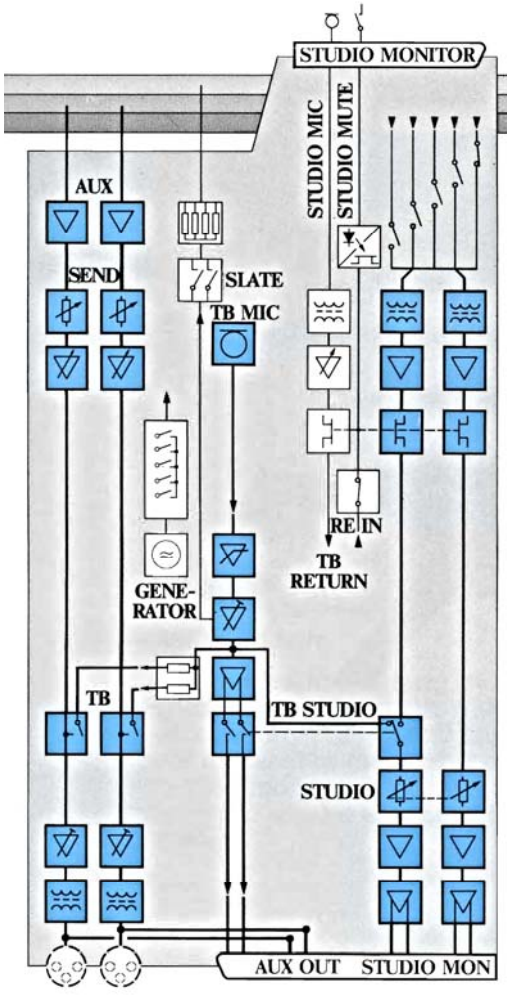
Expands the CR and STUDIO monitor via 2 x 9 source selection keys to a total of 13 (studio monitor) or 17 (CR monitor) selectable signal sources.

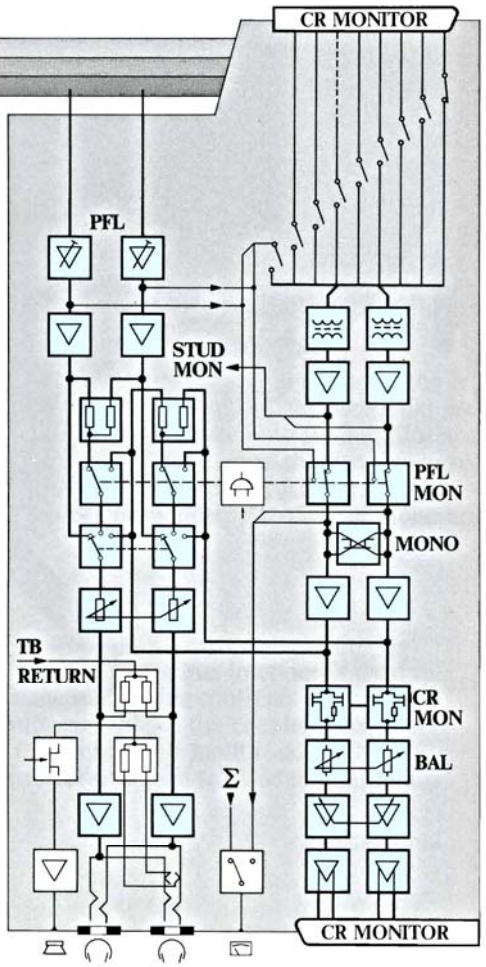
Continuity/control room monitor unit

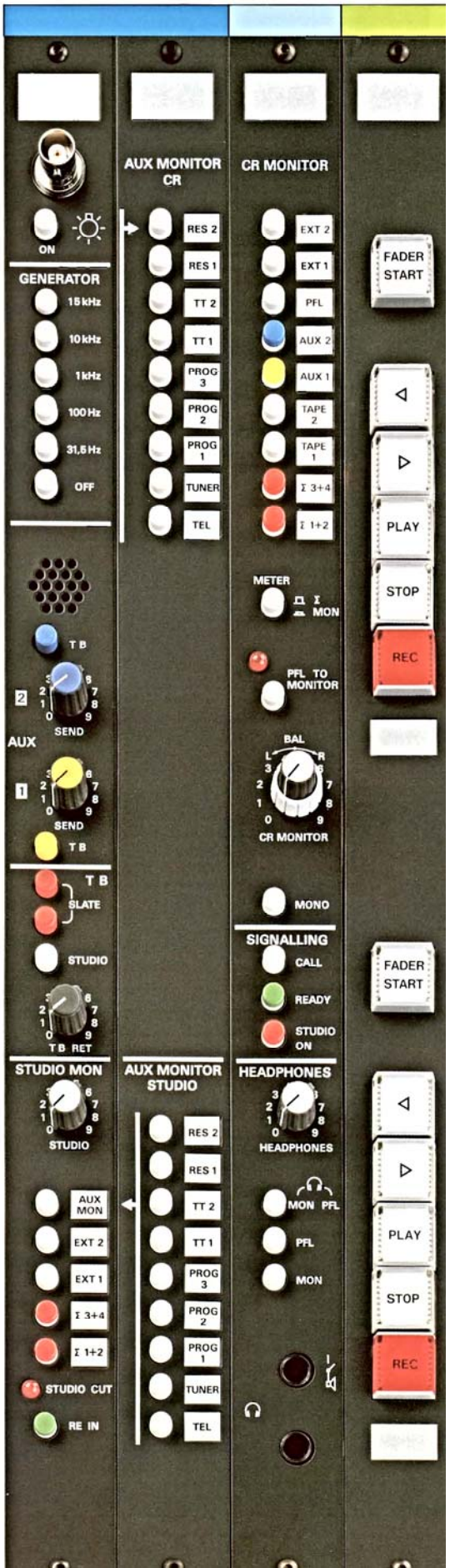
● Central monitor module for the control room monitor speakers and the headphones outputs ● Volume and balance control for monitor speakers ● Headphones outputs with volume control ● MONO key for monophonic monitoring of stereo sources ● Source preselection for PFL and/or MONITOR signals, stereo or with channel separation via left and right earpiece ● Automatic changeover to stereo signal if no PFL key is active ● Automatic PFL selection if at least one PFL key is active ● Selector keys for nine monitoring sources such as PFL, AUX and master outputs, as well as the external source signals ● Meter changeover for indicating the level of the master or monitor outputs ● Studio signalization for yellow, green and red light with visual feedback and status indication ● Red light signalization with logic gating for record/on-air status.

Tape deck remote control module

for two tape machines.







Studer Series 961/962...



On Air...



On Air with the Studer 961/962

Ideal as a disc jockey style on-air mixer...
● Universal input modules for line level or microphone level, with switch-controlled microphone phantom supply ● Mechanically coupled stereo high-level inputs ● Fader start facility ● Remotable MUTE key (cough button) for each input ● Filter section for sound modification or as a personal equalizer ● Compressor/limiter ● Control room monitor with PFL monitoring ● Studio signalization for visual on-air status indication ● Studio monitor with comprehensive talkback facility, built-in TB microphone, and automatic monitor muting ● AF generator connectible to any mono input module, for simple calibration and quick fault isolation, ●●● and many other ingenious auxiliary control room functions.
In addition, Studer offers a comprehensive line of system-compatible peripherals.

on OB assignment...



In the recording or broadcasting van: STUDER 961/962

The rugged, compact 961/962 consoles handle tough OBV assignments easily. High standards of technical excellence, the optimal use of space, reliability, and ease of maintenance are the outstanding qualities of the 961/962 Series.
Though compact the Studer 961/962 offers a very generous operator surface and exceptional performance. Mechanically as well as electronically, this audio mixer concept is designed for high power handling capacity and reliability – two extremely important requirements for OBV applications.

Studer 961/962
as an integral part of video post production

in production and audio post-production...

Studer mixer controlled by a video editor

When configured with the video editor interface, the Studer 961/962 permits additional creativity in video post production as an audio mixer/switcher for simple and automatic editing of playback program sources. Accurate fading/cross-fading as well as channel-specific muting/switching of monitor sources are provided. Central operation from the keyboard of the video editor[1].

Studer tape machine controlled by a video editor

The audio transport interface creates full compatibility between the audio transport control and the video control systems. This means that Studer multichannel tape machines can be used in the video post-production studio as high-quality audio program sources. All tape deck functions can be centrally remote controlled via the video editor, in perfect synchronization with the master video recorder.



[1] e.g. SONY® BVE900 Automatic Video Editing Control Unit

... with a broad range of accessories

A mixing console, in order to deliver full performance in whatever application or environment it operates, must offer a full array of system-compatible peripheral devices. Drawing on years of experience in studio planning, Studer offers a comprehensive range of peripherals and accessories for its 961/962 consoles, among them:



- Studio consoles for ergonomic workstations
- Studio meter panels from the Series 900 (in place of the pluggable standard panel) for enhanced instrumentation
- A full line of modules such as bargraph level indicators, illuminated moving coil instruments, a faderstart-controlled digital stop watch, tape recorder remote control modules and much more.

19" base rack for convenient installation of peripheral devices such as telephone hybrid, noise reduction systems, power amplifiers, etc.



Slave mixer
for up to 18 additional inputs.



Distribution boxes
for extended connection facilities.



Talkback box
for monitoring, intercom, and signalization in the studio.

Your STUDER Representative:

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