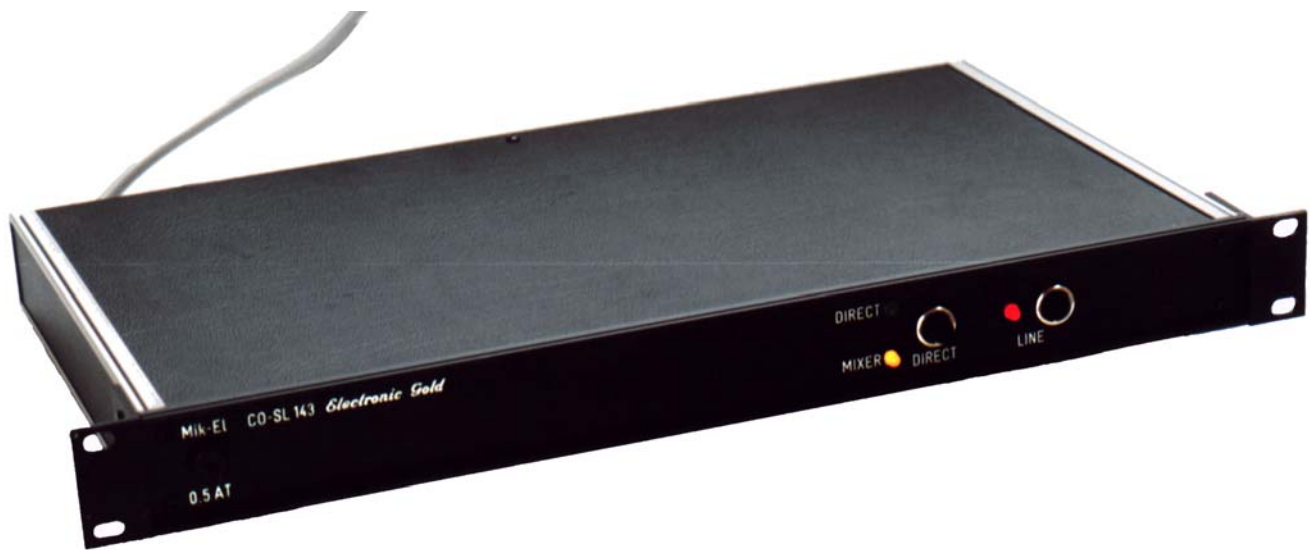




Date: 26.04.2002

## CO - SL 1 4 3 E G



# STUDIO LINE AMPLIFIER ELECTRONIC MANUAL

# Mikkelsens Elektronikk



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CO - SL143EG

## Description:

The CO-SL143EG Studio Line Amplifier has one switched transformer balanced stereo output for transmitter, four electronic balanced stereo outputs for tape recorders and three unbalanced stereo outputs for cassette recorders with a signal level at - 12dB. There are two balanced stereo inputs, one from mixer output and one direct input to put another source directly on air. The transmitter lines are provided with inserts for sound processing equipment such as limiters, equalisers etc. The lines are then balanced by transformers and protected against voltage spikes. That makes it possible to connect the output **TRANS** directly to the lines for the transmitter.



By using the switches on the front panel You choose the source for the transmitter lines. LEDs indicates the operating mode at a glance. The **DIRECT**-button let you choose either the mixer or another source on air. The other source could for instance be an edited tape with a complete program. By deactivating the **LINE**-button the lines to transmitter are muted, thus keeping your studio off air during editing/recording. This is imperative at locations where several studios share one transmitter. In addition to the LEDs on the front panel the mode of the switches is available at a connector at the rear for remote light indication.

CO-SL143EG contains 4 electronic balanced input amplifiers, 8 electronic balanced output amplifiers, power supply, direct- and line-switches and balancing transformers for the transmitter line. The output amplifiers separates the transmitter line and the other lines against any fault that might occur in a connection or input on a tape recorder or cassette recorder. The balancing of the in- and outputs improves the noise immunity significantly (especially important when using long lines and/or in an electrically noisy environment), and also a correct adaptation to the tape recorders. That will in total improve Your sound quality.

## COMMENTS TO CONNECTIONS:

When connecting unbalanced signals to the **MIXER**- and **DIRECT** inputs pin 1 and pin 3 is connected together to screen and signal (+) is connected to pin 2. If pin 3 is left unconnected You will get a signalloss of 6dB.

PS!! When connecting unbalanced signals on the balanced outputs you must leave the B-row (-) unconnected. Grounding the B-row can seriously damage the output amplifiers ! You **MUST** connect the screens to the C-row and signals to the A-row. PS!!



Address: Nygaardstubbyen 5 N-1454 Fagerstrand	Phone: +47 66 91 92 95 Fax: +47 66 91 51 81	Giro: 9710.4771789 E-mail: kunder@mik-el.no	Company no: NO-946971243 MVA Internett: <a href="http://www.mik-el.no">http://www.mik-el.no</a>
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Markings	Description	Connector
TRANS	Output for transmitter.	<u>XLR-5F Balanced Stereo:</u> 1: Screen 2: Left out (+) 3: Left out (-) 4: Right out (+) 5: Right out (-)
INSERT L, R	Inserts for left and right channel after direct and line switches.	<u>1/4" Jack Unbalanced:</u> Center: Signal out Ring: Signal return Chassis: Screen



MIXER L, R	Balanced inputs left and right channel from mixer.	<u>XLR-3F Balanced:</u> 1: Screen 2: Signal in (+) 3: Signal in (-)
DIRECT L, R	Balanced inputs left and right from an external source.	<u>XLR-3F Balanced:</u> 1: Screen 2: Signal in (+) 3: Signal in (-)
LIGHT	Remote of external lights showing the operating mode of the switches at front. (See Block Schematic)	<u>4-Pin DIN-connector:</u> 1: Common 2: Direct 3: Line 4: Mixer



**OUTPUT  
1 - 4**

Balanced outputs for  
tape recorders.  
NB! When connecting  
unbalanced signals  
do not connect the  
B-row.

DIN 41622 F. Connector:

- C1-10: Screen
- A1: Output 1, Left (+)
- B1: Output 1, Left (-)
- A2: Output 2, Left (+)
- B2: Output 2, Left (-)
- A3: Output 3, Left (+)
- B3: Output 3, Left (-)
- A4: Output 4, Left (+)
- B4: Output 4, Left (-)
- A5: NC
- B5: NC
- A6: Output 1, Right (+)
- B6: Output 1, Right (-)
- A7: Output 2, Right (+)
- B7: Output 2, Right (-)
- A8: Output 3, Right (+)
- B8: Output 3, Right (-)
- A9: Output 4, Right (+)
- B9: Output 4, Right (-)
- A10: NC
- B10: NC

**OUTPUT  
5**

Unbalanced outputs  
to cassette recorders.  
Level: -12dB.

PHONO Unbalanced:

Center: Signal  
Chassis: Screen