

SCHERTLER SA

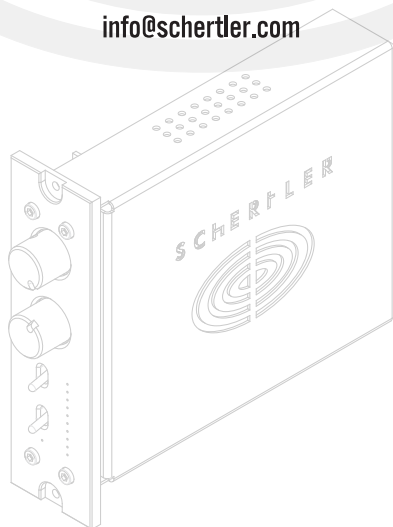
Via Beroldingen 18
6850 Mendrisio
Switzerland

Tel. +41-91-630 07 10

Fax. +41-91-630 07 11

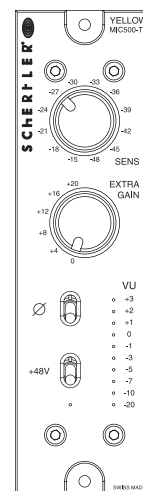
www.schertler.com

info@schertler.com



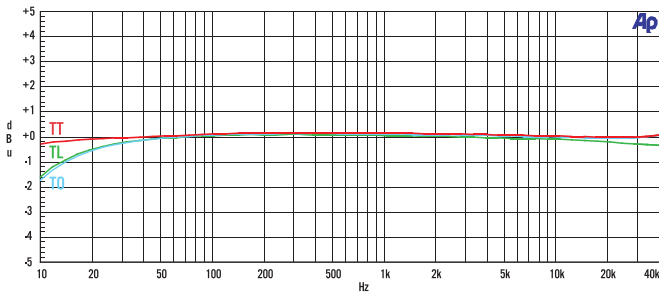
YELLOW MIC500

pro audio microphone preamplifier

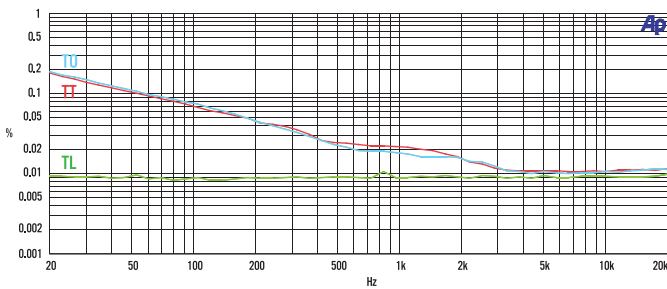


DIAGRAMS

FREQUENCY RESPONSE 10Hz - 40kHz



TOTAL HARMONIC DISTORSION VS FREQUENCY %



QUALITY CONTROL

Date:

Model : TL

Serial Number:

TO

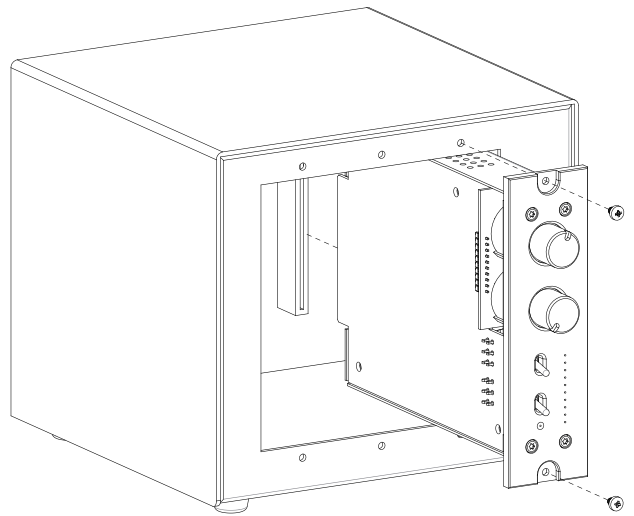
TT

Signature:

INSTALLATION

YELLOW MIC500

Install the YELLOW MIC500 in your Lunchbox by simply pushing the preamp into your free cardslot. Secure the preamp by fixing it to the chassis using the screws supplied with the Lunchbox. Power up your unit and you're ready to use it!



NEW PRO AUDIO 500 SERIES...

Dear Customer,

Welcome to the SCHERTLER pro audio world. We're proud to introduce the first products in a new range that has been specifically developed with the pro audio user in mind.

The YELLOW MIC500 is a single channel, full Class A pro audio microphone preamp designed for user installation in an API 500 Series Lunchbox rack.

Available in three models, MIC500-TL, -TO and -TT, the microphone preamp's high quality electronics are contained within a totally shielded metal enclosure, while an anodized aluminium front panel provides intuitive access to its controls. These include a 12-step rotary switch for adjusting input sensitivity (in 3dB increments), plus an extra gain control for use in weak signal conditions or when connecting low output sources such as ribbon microphones. A full 10-segment VU meter with peak hold provides highly accurate signal monitoring. A two-position phase reverse switch and phantom power switch (+48V) are also included.

Designed to offer the best possible audio quality, the YELLOW MIC500 has a fully balanced signal path with no capacitor over the entire path (except for the TT model). Only discrete electronics are used on the signal circuitry. Power supply rails with active filter are designed to improve Power Supply Rejection Ratio (PSSR). All models include a low-noise matched transistor array from THAT Corporation. The TO and TT models offer a high-quality output only (TO) or input/output (TT) audio transformer from Lundahl.

No Negative Feedback (NFB) is applied for faster attack and improved slew rate. The YELLOW MIC500 simply slots into an available space in the Lunchbox rack and is secured to the chassis using supplied screws. Ready for instant use on power-up.

SPECIFICATIONS

YELLOW MIC500

Input impedance	TL&TO: 1880 Ohm ; TT: 1300 Ohm
Output impedance	TL: 70 Ohm ; TO&TT: 315 Ohm
Maximum input level	+8dBu (@1kHz ; THD<0,5%)
Maximum output level	+18dBu (@1kHz ; THD<0,5%)
Gain range	15 - 68 dB
Frequency response	20Hz - 20kHz +/- 0.5 dB
Equivalent input noise (EIN)	-128.7dB (@max gain)
Distorsion (THD+N)	< 0,02 % (@1kHz, -10 dBu)
Power consumption	84 mA DC
Size & Weight	170x134x37 mm ; 0,27 kg
Conditions	Use in dry locations, 0°<T< 40°



CONTROL PANEL

1. SENSITIVITY

Use this 12-step rotary switch to adjust the sensitivity of your preamp according to the signal strength. Sensitivity increase steps are in increments of 3dB.

2. EXTRA GAIN

If necessary, add more gain to your signal using this 6-step rotary switch. Every gain step adds an increase of 4dB. Use this extra gain for weak signal conditions, or when working with low output sources like ribbon microphones. Only use this extra gain if really necessary. First adjust your sensitivity to the maximum value in order to achieve the best signal to noise performance.

3. PHASE

Dual position switch for inverting signal phase.

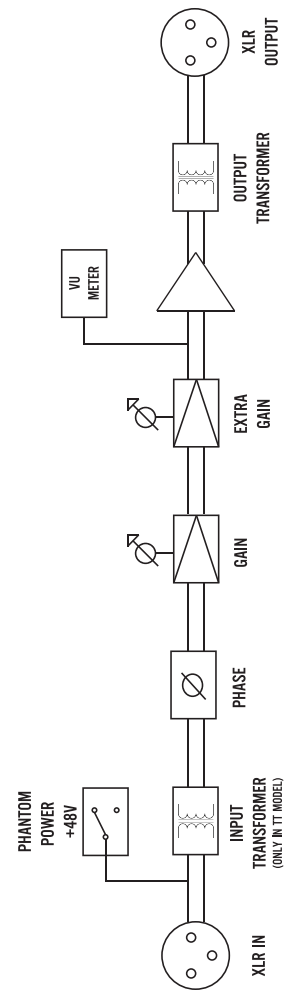
4. PHANTOM POWER

Provides +48V phantom power for active microphones.

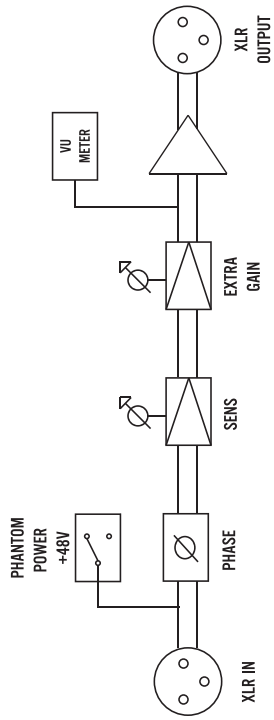
5. VU METER

Precision 10-LED VU meter with peak hold.

BLOCK DIAGRAM YELLOW MIC500-TO & TT



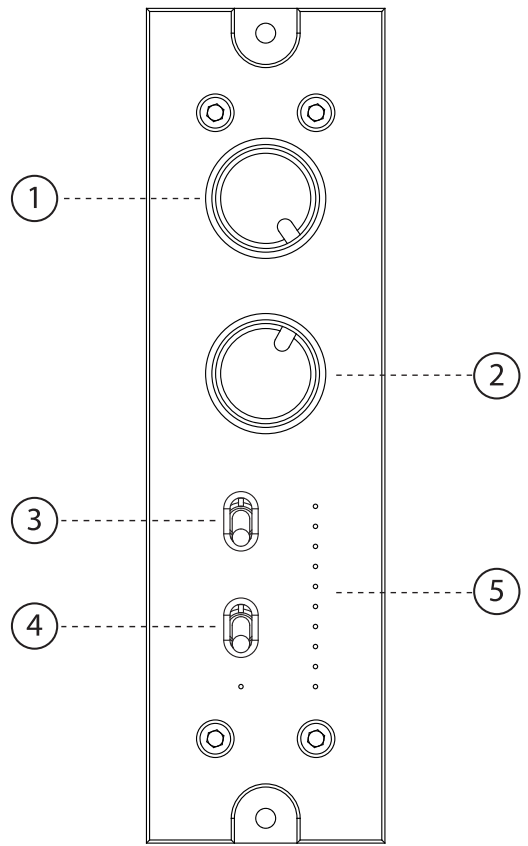
BLOCK DIAGRAM
YELLOW MIC500-TL



7

FRONT PANEL

YELLOW MIC500



4

DISCOVERING YELLOW MIC500...

YELLOW MIC500

Totally shielded metal enclosure with front panel in anodized aluminium

Full 10-segment LED meter for accurate signal monitoring

Low-noise matched transistor array from THAT Corporation

Power supply rails with active filter for improving PSRR

Full Class-A preamplifier

High quality audio transformer from LUNDAHL (TO & TT models only)

No capacitor over the entire signal path (with exception of TT model)

Only discrete electronics on the signal circuitry

No negative feedback applied, faster attack and improved slew rate

