



EMT 128 User Manual



Thank you for choosing the EMT 128.

Take your time to install and adjust your product properly. Please remember to work carefully and to follow the instruction manual step by step.

You will find actual information about our products on www.emt-tontechnik.ch.



Safety warning

- Read this manual carefully before putting the EMT 128 into operation.
- The EMT 128 is a Class I product. It is essential that it is connected to a mains socket outlet with a protective earthing connection.
- Never try to open your EMT 128 when it is powered to prevent the risk of electric shock and burns. Switch it OFF, remove the mains cable from the back panel and wait at least 10 minutes before any intervention into your EMT 128 such as for gain adjustment or tube exchange.
- Should you have any questions on how to setup or use your EMT 128, please contact your EMT dealer.

Warranty

EMT Tontechnik certifies that this device has been inspected and tested before leaving the factory.

This product is covered by EMT's two-year warranty for the EMT 128 and six months for the tubes, valid from the day of purchase (dealer's invoice). It covers all factory materials and processing errors.

However, this warranty does not cover any failure caused by putting the device to improper use; malfunction caused by neglecting the instructions elsewhere in the owner's booklet; normal tube wear. Unauthorized disassembly or modifications whatsoever of the product will also avoid the warranty. In any case of warranty claims please contact your dealer.

Package contents

The package contents:

- EMT 128 Precision Phono Stage
- Mains cable, depending on the country of purchase, the cable supplied by EMT will feature an European or Swiss plug
- User Manual
- Allen key (2.0mm) to open the left top panel



Positioning

The EMT 128 must not be exposed to water or liquids. Use indoors only.

There must be enough space all around the chassis for adequate ventilation. Ventilation should not be impeded by covering the ventilation openings with any item.

The EMT 128 must rest on a stable support.

Front Panel



Power Switch (1)

Off:	The device is in standby mode.
On:	The tube amplifier circuit is set into operation. Active operation is indicated by the green glowing LED above the switch. Please note the audio signal is muted while heating up the tubes. This takes ca. 20 seconds after switching to On.

Mode Switch (2)

Mono:	The device is set to mono mode.
Stereo:	The device is set to stereo mode.

Curve Switch (3)

DIN 78:	De-emphasis curve for playback of 78 records (78 rpm shellac records)
RIAA:	De-emphasis curve for playback of mono and stereo records (vinyl records)

Mute Switch (4)

Mute:	The audio output signal is muted, however the amp itself is fully running.
Sound:	The audio output signal is present at the output sockets.



Mains Input



Connector (1)	
IEC C14:	Before connecting your EMT 128 to the mains, make sure the Input Voltage stated on the Type Plate (2) complies with the mains of your local electricity supply. Use the power cable provided with your EMT 128 to connect the device to the mains.
Warning:	Always switch the mains switch to “0” before connecting or disconnecting any cable to the device.

Fuse Holder (2)	
Location:	The fuse holder is located under the mains input connector. It includes a replacement fuse.
Replacement:	Disconnect the device from the mains. Use a small screwdriver to open the fuse-holder. Replace the rear fuse and close the fuse-holder.

Power Switch (3)	
Function:	Switch to “1” before setting the device into operation. If your EMT 128 is not in use, always switch to “0”.

Type Plate (4)	
CE:	Please refer to separate declaration of conformity, included in this manual.
Disposal:	For disposal, please refer to separate information, included in this manual.
Input Voltage:	Make sure the Mains Input Voltage complies with the mains of your local electricity supply.
Fuse:	If a fuse replacement is required, make sure to use the type as indicated on the Type Plate.



Connection



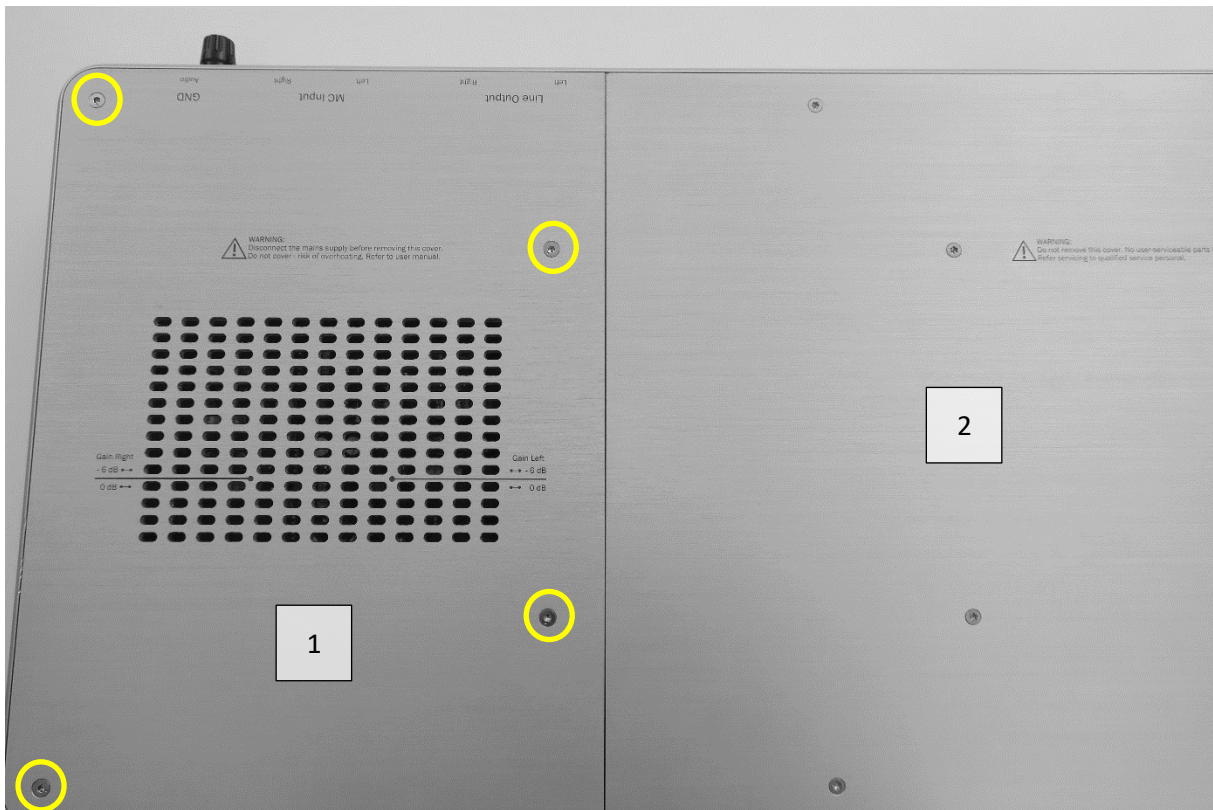
Line Output (1)	
XLR Connector:	Connect the XLR-terminal with your preamplifier or integrated amplifier.
Pins:	1=GND 2=Hot 3=Cold
RCA Option:	On request, the output terminal can be configured to RCA terminals. For further information, please contact your dealer.

MC Input (2)	
RCA Connector:	Connect the RCA-connector with your turntable. Make sure a moving-coil (MC) cartridge is mounted. To avoid malfunction, do not connect the following: <ul style="list-style-type: none">- moving-magnet (MM) cartridge- step-up-transformer- line-level device
MC-Cartridge:	The EMT 128 is specifically designed for EMT MC cartridges. If you decide to use other MC cartridges, the following cartridge specs are recommended: Cart Impedance: 12...30 Ohms Cart Output Voltage: 0,6...1mV @ 5cm/s (Gain Setting = -6dB) Cart Output Voltage: 0,3...0,6V @ 5cm/s (Gain Setting = 0dB)

Audio GND (3)	
GND-Terminal:	Connect the GND-terminal with the chassis of your turntable and tonearm. Proper ground wiring prevents hum and electrostatic issues in your turntable setup.



Top Cover



Top Cover Left (1)

Cover left:	The left part of the top cover can be removed in order to get access to - the gain setting - all audio tubes
Warning:	Disconnect the mains supply connection cable and let the unit rest for 10 minutes before removing this cover.
Removal:	Release and fully remove the four screws (M3x6). Use the allen-key (2.0mm) delivered with your EMT 128. The left top cover is partly lifted by a spring-loaded mechanism. Carefully remove the left top cover.
Installation:	Carefully place the top cover in left section of the chassis. Place and tighten the four screws (M3x6). Use the allen-key (2.0mm).

Top Cover Right (2)

Warning:	Do not remove the right part of the top cover. No user-serviceable parts inside. Refer servicing to qualified service personal.
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Case cleaning

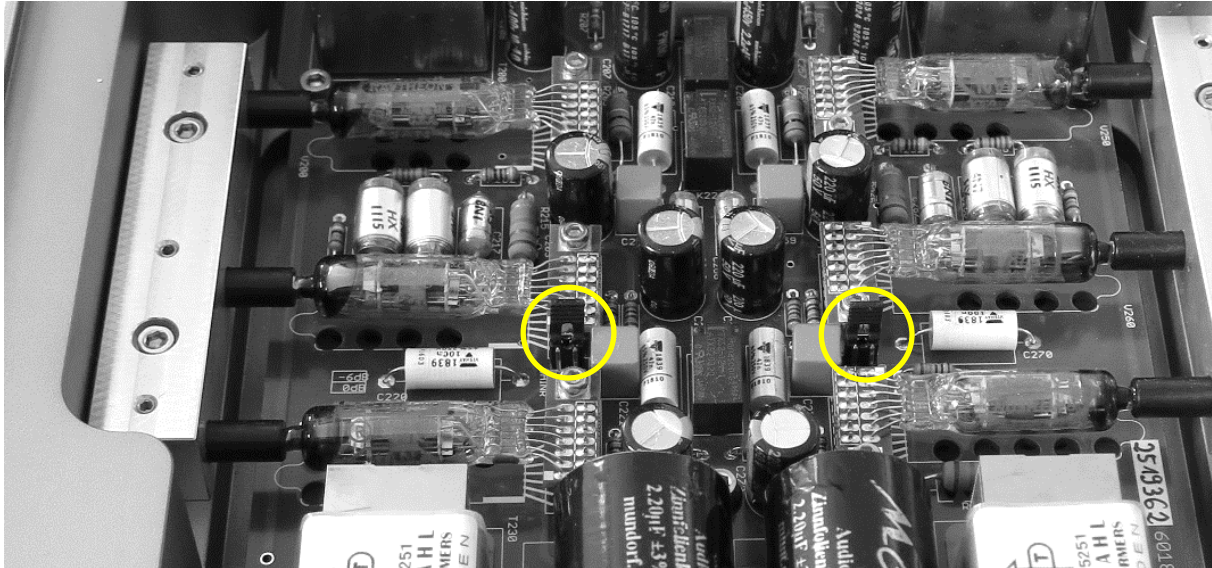
Clean the EMT 128 case using a soft, non-fluffy, slightly damp cloth. Do not use any cleaning products or liquids.



Gain Setting

The EMT 128 offers two settings for the gain:

Setting	Overall gain	MC-Cartridge
-6dB (nominal gain)	64dB	Output voltage: 0,6...1mV
0dB (maximum gain)	70dB	Output voltage: 0,3...0,5mV



Nominal Gain Setting



Maximum Gain Setting

Gain -6dB (nominal)	
Warning:	Disconnect the mains supply before removing the cover.
Open Cover:	Open the left part of the top cover. Refer to the related description in this manual.
Jumpers:	The gain is set by two jumpers as indicated in the above picture.
Setting:	Set the two jumpers (L & R) to the - 6dB position for nominal gain.

Gain -0dB (maximum)	
Warning:	Disconnect the mains supply before removing the cover.
Open Cover:	Open the left part of the top cover. Refer to the related description in this manual.
Jumpers:	The gain is set by two jumpers as indicated in the above picture.
Setting:	Set the two jumpers (L & R) to the 0dB position for maximum gain.



Tube Replacement

The EMT 128 tubes are carefully selected and tested by EMT Tontechnik. Tubes have limited lifespans, depending on the way of use, so no specific number of hours can be stated.

EMT strongly recommends switching the EMT 128 to “On” a few minutes prior to listening, and always switch to “Off” after listening.

Note:

Tubes rarely “decease” quickly. However, there are a few typical signs indicating tube ageing or failures:

- The sound gets slowly duller.
- The sound gets noisy, f. e. with different kind of background noise.
- The distortion gently increases to an audible level.

As soon as one of these signs appears, please contact your EMT dealer and order an EMT 128 tube replacement kit. Follow the instructions delivered with the tube replacement kit.

Disposal



Disposal of old electrical & electronic equipment (Applicable in the European Union and other European countries with separate collection systems).

This symbol on the product or on its packaging indicates that it should be handed over to the applicable collection point for the recycling of electrical and electronic equipment.

By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local authority, your household waste disposal service or the shop where you purchased the product.



Technical specifications

Inputs:	MC, sensitivity 1mV nominal on RCA (1)
Outputs:	Line level 1.55 V on XLR (2)
Overall Gain:	64dB nominal (3) or 70dB max. user selectable by internal jumpers
Signal to Noise:	>80dB (4)
THD & N:	-40dB @ 1kHz and nominal level
Mode:	Stereo / Mono
Curve:	RIAA / DIN 78 selectable
Mains:	Factory set for either 230, 115 or 100 VAC, +/- 5%
Power Consumption:	25 Watts
Operating temperature:	18...25 °C / 65...77 °F unrestricted air flow, non-condensing humidity
Operating environment:	For indoor use only
Dimensions:	480x315x60 mm / 19x12.5x2.3 inches
Weight:	12kg / 26.5 lbs

- 1) EMT MC cartridge 1 KHz level @ 30 µm/5.65 cm/sec
- 2) Load \geq 10 KOhm, fully symmetrical and floating
- 3) 1mV input @ 1 KHz gives 1.55V output
- 4) According to ITU-R 468 standard

Features and specifications subject to change without notice.

Version: V1.4
Date: 22.12.2022