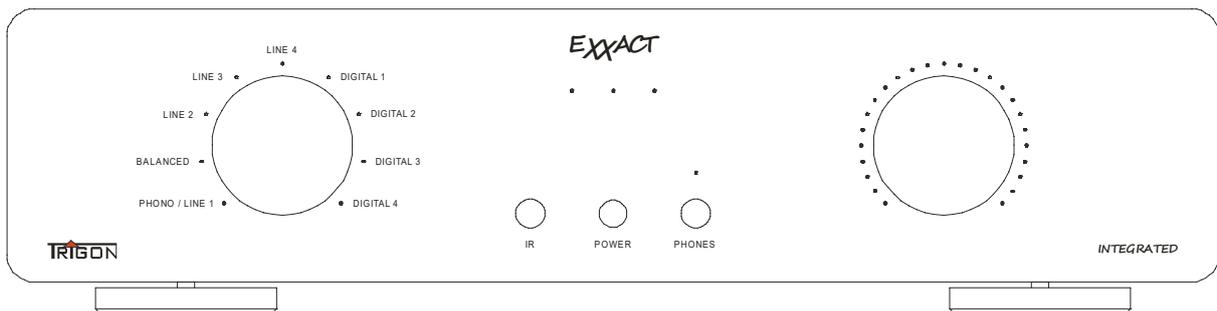




OPERATING MANUAL

FOR INTEGRATED AMPLIFIER

EXXACT



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1 Introduction

Valued **TRIGON** - Customer,

We are excited that you have chosen to purchase the **EXXACT** integrated amplifier.

This unit was built using the highest quality control to insure utmost precision in manufacturing.

Whether you are a beginner to High-Fi or advanced user, it is highly recommended that you read and understand this User's Manual thoroughly before using your new integrated amplifier.

Be sure to keep this manual easily accessible as it could come in handy during normal use of this amplifier.

We hope that you enjoy your new amplifier and thank you for choosing **TRIGON**.

2. General Description

The **EXXACT** is a High-End integrated amplifier with 9 inputs (CD-Player, Tuner, TV etc.). There are 5 analogue inputs and 4 inputs for digital devices.

The integrated PHONES amplifier is able to drive headphones with an impedance between 30 and 250 Ohm. The PCM power amplifier is able to drive loads ≤ 4 Ohm. The **EXXACT** can be operated completely via two rotary knobs and a push button as well as via an optionally available IR remote control **DIRECTOR**.

The LED displays are customizable in 4 levels in brightness to suit your personal needs.

The massive cabinet of the **EXXACT** consists of 2mm steel plate as well as a 6mm strong aluminum front panel. The device feet work according to the principle of the disc spring and decouple the **EXXACT** effectively from the stand. Due to this elaborate cabinet construction, microphony sound effects are minimized.

2.1 Safety Information

TRIGON ELEKTRONIK GMBH will not assume any responsibility for damages occurred from unsafe handling of the product or from not adhering to the recommend safety instructions below.

- The amplifier should not be used un-monitored in close proximity to heat producing devices such as Water heaters, Fireplaces or Flammable materials.
- The amplifier is not designed to withstand heavy impacts or severe vibrations.
- The amplifier should not be used un-monitored when being transported from a cold environment into a warm room.
- The amplifier should not be used when placed out in direct contact with the Sun.
- Insure that the installation location for this product has adequate ventilation.
- The amplifier should not be doused with any type of liquid. It is imperative that no liquid get inside the unit.

- Never use this product without the shielded top cover installed.
- Before removing the top cover always insure that the AC cord has been removed from the AC outlet and that the product has sat to drain any residual current.
- Never short any of the fuses. Replace broken fuses only with original fuses of the same value and type.
- Do not attempt to service this unit. Repairs are only to be done by authorized service centers or through the factory direct. Any such unauthorized repairs will result in a voided warranty.
- Always make sure that your complete audio system is shut off before changing any cables or connecting any other components.

The **EXXACT** power supply is set at the factory to be operated in 230V. Contact your local dealer or **TRIGON** directly if you should need a different voltage version.

2.2 Installation Information

During unpacking, please inspect the unit for any potential transportation damage. If you notice any damage, please get in contact with your dealer.

Confirm the contents of the box. In addition to the **EXXACT**, you should also have the following:

- 4 User's Manual
- 5 Warranty Card
- 6 Power cord

Place the unit on a dry, level surface. Be sure that the unit has good ventilation around it. Strong magnetic fields commonly found in amplifier transformers and halogen light transformers can induce hum into a system. Because of this, it is best to place the unit a reasonable distance from such devices. Also, the audio interconnects should not be run in parallel to AC power cables as this can also induce noise.

Hum is also produced from light bulbs. It is best to place audio equipment at least 3 feet away from them.

Try to utilize natural light and make sure not to use the **EXXACT** unmonitored next to heat sources.

2.3 Warranty and Service Information

In choosing the **EXXACT**, you have selected a valuable and technologically advance product. We at **TRIGON** are trying to improve our quality control through all steps in the production cycle to insure that all **TRIGON** products meet our quality expectations. If a problem is experienced, **TRIGON ELEKTRONIK**

GMBH offers a three-year warranty. This warranty covers repairs for any manufacturing defects.

It does not cover damages that are the result of neglect or misuse. It also is considered void if unauthorized personnel do any repairs or modifications. Any alterations to the serial number, or transportation damage are not covered as part of this warranty.

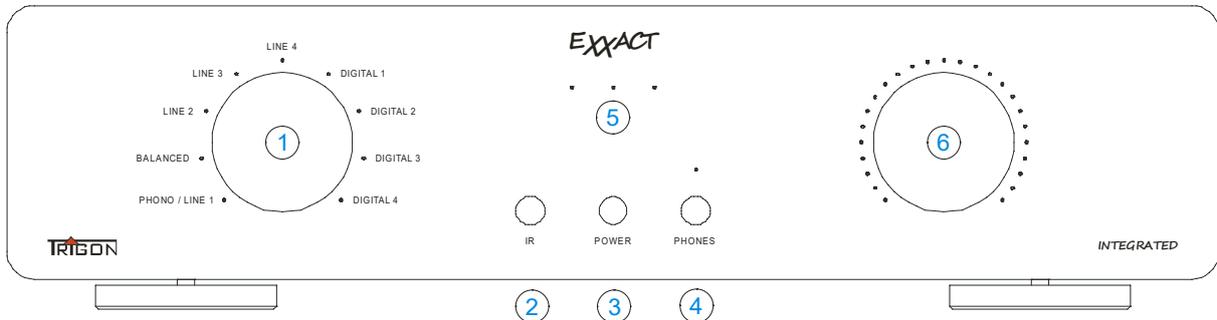
3 Initial Setup

After you have unpacked the preamplifier, you should first connect the unit to the power supply and plug it into the AC outlet. Before you have connected any of your other components turn the unit on to test that it powers up properly.

After a short warm-up period, you will hear a quiet “clicking” sound from Relays within the **EXXACT** signalling that the unit is ready to be operated. At this time you should become more familiar with the proper usage and connection possibilities of the **EXXACT**. Test the various controls (i.e. input selection, volume, etc..) at this time for functionality, while none of your sources are connected. This will insure that no damage can occur. After you have tested all the functions and understand how to control the **EXXACT**, you can begin to connect your other audio components.

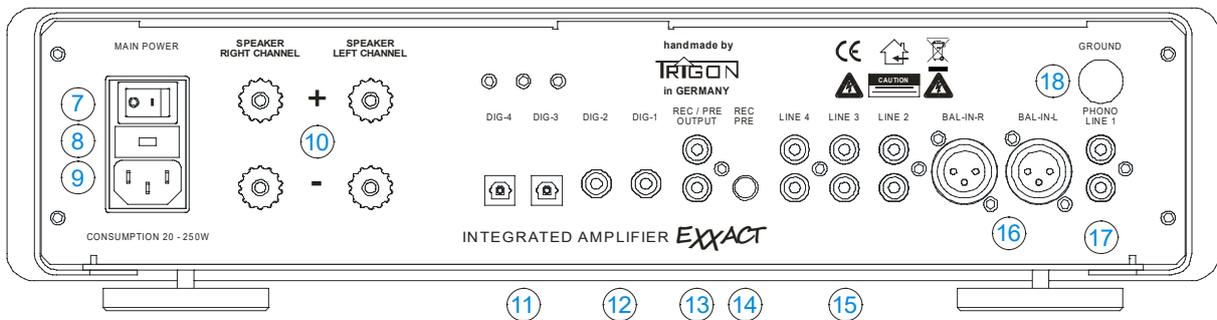
When connecting cables between components, be sure that both the **EXXACT** and other components are powered OFF!

EXXACT front view



Plug the Trigon Volt cable into the Exxact's power socket (9), then connect the power plug to the power supply.
Switch on the integrated standby power supply by pressing the switch (7) on the back of the power supply.

EXXACT rear view



CAUTION!!! Before you start with the wiring, however, you should switch off the Exxact as well as the other devices of your system, as always when working on the cabling!

Avoid plugging into a UNBAL INPUT when the Exxact is switched ON. Unfortunately, these connectors are connecting the signal contact first and then connect to the neutral feedback (ground), which usually leads to a very strong buzz , which can destroy the amplifiers and / or your speakers!

3.1 Front Panel Controls

We tried to design the number of control elements according to the formula "as much as necessary, as little as possible". In addition, it was important to us during the conceptualization that the amplifier in the basic functions remains as simple to operate as possible and can be operated intuitively. So everyone will immediately assign the function of the volume setting to the large rotary knob (6).

The inputs are selected with the rotary knob (1) and the **EXXACT** is switched on or off with the (3) button.

The elements in detail:

(1) Inputselector

This knob selects the input. The LED's around this knob show the selected input.

(2) IR-Window

Behind this disc is the infrared remote control receiver.

(3) On-Off button

At this button the Exxact can be switched On or Off. The middle LED of the three LEDs (5) above this button flashes until the amplifier is switched on and then illuminates slightly brighter. When switched off, this LED is slightly darker if the main power switch (7) on the rear panel is switched on and the mains voltage is applied.

NOTE: We have equipped the **EXXACT** with a very power saving standby power supply. The power consumption in standby mode is less than 1 watt, ie. you can always connect the **EXXACT** to the power supply in standby mode without switching it off completely with the mains switch (7).

If, however, you do not want to use the **EXXACT** for an extended period of time (holidays, etc.), you can switch off the power supply completely with the switch (7).

In case of severe storms with a risk of lightning, it is also recommended to disconnect the mains connection, ie pull the mains plug!

(4) Headphones

A 6.3mm jack plug of a headphone can be plugged into this socket. The impedance of the headphone should be between 32 and 250 ohms.

If you want to switch off the playback via the loudspeakers while you are using the headphones, briefly press the input selection switch (1).

The LED above the headphone connector lights up and indicates that the loudspeakers are now switched off.

To switch the speakers back on, press the input selector (1) again. The LED above the headphone socket switches off, the volume is reduced to the power-on volume, and the speakers are reconnected.

(5) Clipping LED, Power LED, Overheat LED

The right LED indicates an overdrive of the output stage. The LED in the center is the power indicator of the amplifier. This LED flashes when the amplifier is turned on and when receiving remote signals from the IR remote control. The left LED lights up when the amplifier is overheated. If the left and / or right LED is permanently lit and no signal is heard, the amplifier is in protection mode. This is used to ensure the amplifier is overloaded. To reset it, it must be switched off once.

(6) Volume Knob

This knob is used to adjust the volume. The adjusted volume is indicated by the LEDs arranged around the volume knob.

Pressing the volume knob invokes the MUTE function. The MUTE function is indicated by a flashing LED of the volume display.

Pressing the knob again or turning the volume knob will cancel the MUTE function and restore the previous volume level.

3.2 Rear Panel Connections

(7,8,9) Power Connection, Power Switch and Fuse

Use the supplied high-quality power cord Volt to connect the unit to the power supply. Pay close attention to the markings (red dot) and be sure that all power plugs of your system are connected properly by inserting them in the same direction into the AC outlet.

Set the power switch to the on position to supply AC power to the unit. When the fuse blows, replace it only by a fuse of the same rating. Be sure to unplug the unit before replacing the fuse.

(10) Loudspeaker Binding Posts

The loudspeaker cable can be connected to the two binding posts of that terminal. The positive output terminal is in the top row, the negative is in the bottom row. Make sure that no loudspeakers with an impedance of less than 3 Ohm are connected. Never short-circuit the binding posts in order to avoid damage to your integrated amplifier.

(11) Optical Digital Inputs (DIG-3, DIG-4)

These two sockets can be used to connect digital source devices (according to the SPDIF standard) via fiber optics. (E.g., TV set)

(12) Digital Inputs (DIG-1, DIG-2)

To these two socket, digital sources devices (according to SPDIF standard) can be connected. (E.g., CD player)

(13) REC/PRE OUTPUT

The preamplifier signal is applied to this output. Depending on how the button (14) is switched, the preamplifier signal is applied without a volume control or with a volume control.

(14) REC/PRE Switch

When the button is pressed, the volume-controlled preamp signal is applied to the REC / PRE OUTPUT jack (13). Then, e.g. an active subwoofer can be connected. When the button is not pressed, the unregulated preamplifier signal is applied. Now, e.g. a recording device or a headphone amplifier with its own volume control can be connected.

NOTE: Switch off the connected devices at these output first before you switch of the **EXXACT** to avoid a “Blop“ noise.

(15) Analogue Inputs (LINE-2, 3, 4)

Analogue high-level source devices can be connected to these sockets. (E.g., tuner, CD player, etc.)

(16) Analogue Balanced Input (Bal-In)

Analogue high-level source devices with balanced outputs (XLR) can be connected to these sockets.

(17) PHONO / LINE-1

For the **EXXACT** we also offer a retrofitable PHONO preamplifier. If this is installed, a record player can be connected to this jack.

(18) GROUND

An earth cable can be connected here. This connection is, however, usually required only in conjunction with the PHONO preamplifier.

3.3 Quick Start Manual

For the very impatient of you, who have already gained some experience with the use of high-end amplifiers, there is a short introduction to the speed-up.

- Cabling (connect sources and speakers)
- Connect the appliance to the mains and switch on the mains switch (8) on the back
- Press the On/Off button (3)
- Select the source device with the input selection switch (1)
- Use the volume knob (6) to adjust the monitor volume
- Ready for operation

3.4 Remote Control DIRECTOR

The **EXXACT** offers an optional IR Remote called the **DIRECTOR**.



Figures 1 to 3 show the control panel of the Remote controller **DIRECTOR**. In Fig. 3 the buttons, which have no function with **EXXACT**, are highlighted brightly. The Remote controller **DIRECTOR** is a system remote control, i. with it, several devices from the company **TRIGON** can be remote controlled.

The complete keypad can be used three times. A level is provided for the operation on amplifiers, CD-Player and Server. Press the (1) button on the top right, next to the signal LEDs, to select the device type to be operated.

To operate the **EXXACT**, press the button (1) until the first LED flashes under the amplifier symbol [].

The "Amplifier Level" is selected and remains selected until another level is selected with key (1). The LED, whose level is currently selected, therefore also illuminates with each pushbutton.

The functions in detail:

Press the (1) button to select the remote control keyboard for three different devices. The three LEDs indicate the selected user interface.

The **EXXACT** can be switched on or off with the (2) button, if the mains switch (7) is switched on.

The brightness of the LED's can be adjusted step by step using the (3) button in four steps.

The settings remain stored even after the **EXXACT** is switched off. If you have switched off the LED's completely, the LEDs always light up for a short moment when the Exxact is operated. Change e.g. the volume is displayed briefly the change and a short moment later the display switch off again.

Button (4) has no function at **EXXACT**.

Button (5) has no function at **EXXACT**.

Button (6) has no function at **EXXACT**.

Button (7) has no function at **EXXACT**.

Taste (8) has no function at **EXXACT**.

Taste (9) has no function at **EXXACT**.

Use the (10) button to turn the **MONO** function on or off. In addition, the LED at the lower right of the volume indicator is lit.

Button (11) has no function at **EXXACT**.

Press the (12) button to select the previous input. If you reached input 1 nothing happens.

Press the (13) button to switch on the next input. When the highest input is reached, nothing happens.

Button (14) has no function at **EXXACT**.

Pressing the button (15) will decrease the volume 10 steps.

Pressing the button (16) increases the volume by 10 steps.

Pressing the button (17) turns the **MUTE** function on or off. **EXXACT** remembers the currently setting of the volume level and sets the volume to the lowest value for **MUTE**. A new push at that button disables the **MUTE** function again and the previous volume value is reset. When the **MUTE** is on, the volume indicator flashes. The **MUTE** function can also be canceled by changing the volume.

Press the button (18) to decrease the volume.

Press the button (19) to increase the volume.

NOTE: The function "Volume" (key 18 and key 19) is always available for amplifier operation, regardless of which remote control unit is currently set. Therefore, these two buttons do not have any function for CD players or servers.

4 What to do, if...

This chapter is designed to help diagnose and trouble-shoot some of the most common errors.

4.1 ... unit doesn't turn on?

- Is the AC plug from the Power supply connected properly to the AC outlet? – *Secure connection.*
- Does the AC outlet that you have the power supply connected to have current, or is it possible that the fuse for that outlet has been blown? – *Test the fuse for that AC outlet at the house fuse box.*
- Is the power switch (7) at the rear side switched ON? – *Switch it ON.*
- *Is the internal fuse blown? – Contact your dealer.*

4.2 ... no sound is produced?

Do you have the correct input selected? – *Select the intended input..*

Is the selected source even sending a signal? – *Select a different input with another connected source to test if it works. If this source works, then you should test the first source to be sure that it is functioning properly.*

Is the *MUTE* function activated? – *Press the MUTE button, or simply turn the volume knob.*

Has the unit encountered a static electric charge? – *Sometimes it can occur, especially during winter months, when humidity is higher, that your clothing will carry a slight static electric charge. This charge can be transmitted to the preamplifier during normal use and may confuse the microprocessor used to control the EXACT. This is a common problem with many common computers as well. If this happens, the EXACT will turn off the output relays to protect the rest of the system. To fix, first try to change the selected input, which should reset the output relays. If this doesn't seem to work, disconnect the AC cord from the wall outlet for approx. 30-60 seconds. Reconnect the AC cord and the amplifier should work without any problems.*

4.3 ... there is a hum?

Are all the connections fastened securely? – *Test all cable connections.*

Sometimes multiple problems can contribute to a magnetic reception, which will result in a system hum. To fix these types of problems, it is recommend that you contact your local dealer who has many years of experience in trouble shooting such issues.

It hums only when connected to a Tuner, VCR or Television? – *All of these components are also connected to some type of grounded Antenna. This problem can also be related to a magnetic reception. In this case however, the resolution is quite simple. Use of a shielded power filter on the antenna can reduce or eliminate this hum. These types of shielded power filters are readily available at most HiFi or Radio stores.*

4.4 ... the remote control doesn't seem to work?

Does the remote work when set into the Preamplifier mode? – *Press the (PRE)AMP button on the remote control. It is now set to control the **EXXACT** integrated amplifier.*

Are the batteries empty? – *Install new batteries.*

Are you using the remote too far from the preamplifier? – *Get closer to the preamplifier. IR-remote controls do have an ideal use distance. With full batteries, the unit will only function with in ≤ 7 meters from the amplifier.*

If the sensor of the remote control is exposed to direct, bright sunlight, the use distance will become shorter. - *Avoid direct sunlight!*

4.5 ... unrealistic tests are carried out ?

The Exxact integrated amplifier has been designed to operate under normal real conditions intended for audio amplifiers. Only in this way it will be able to produce high quality playback of audio signals. Unrealistic tests, such as listening to an unoccupied input at full volume, only result in a nonsense noise and noise signal, which is normal under such conditions. Also quickly successive actuation of the control buttons or rotary switches at the **EXXACT** or also at the remote control has no realistic meaning or purpose and produces only malfunctions, without having any benefit or symbolizing a quality feature.

So that you can enjoy your audio system for a long time, it should be operated as intended.

5 Technical Data

Inputs	: 5x analogue, 4x digital SPDIF
Input Impedance	: analogue 47 KOhm
Input Sensitivity	: 0,5V
Output Power	: 2x 95 / 130 W at 8/4 Ohm
Damping Factor	: >100 (at 8 Ohm 1KHz)
Distortion (THD + N)	: < 0.02%
Outputs	: 1x Speaker, 1x Phones, 1x unbalanced Line Out
Bandwidth	: 20 Hz – 22kHz (-3dB)
Signal Noise	: -94 dB at 1 Watt at 4 Ohm
Weight	: 11,3Kg
Dimensions	: 440 x 110 x 380 mm (BxWxD)

10.2016 Specifications subject to change

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