



**S-150m**  
**Mono Power Amplifier**

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## Instructions for Use

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**Owner's Reference**

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## Introduction

Thank you for your purchase of the Krell S-150m Mono Power Amplifier. This configurable power amplifier has a discrete signal path from input to output and employs a wide bandwidth design with low negative feedback for sonic accuracy throughout the frequency spectrum. All circuits up to the driver stage are balanced and pure Class A.

Krell's new surface mount technology (SMT) means that the S-150m is a power amplifier with big power—150 Watts that does not require big space. SMT allows individual circuit elements to be placed very closely together. This shortens signal paths and allows circuit elements to operate at the same temperature, resulting in more accurate signal transfer and enhanced reliability.

The S-150m is a slim line design allowing five amplifiers to fit into a space normally occupied by one. This owner's reference contains important information on the placement, installation, and operation of the S-150m. Please read this information carefully. A thorough understanding of these details will help ensure satisfactory operation and long life for your S-150m and related system components.

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## Definition of Terms

Following are the definitions of key terms used in your owner's reference manual.

### INPUT AND OUTPUT CONNECTIONS

#### **Balanced**

A symmetrical input or output circuit that has equal impedance from both input terminals to a common ground reference point. The industry standard for professional and sound recording installations, balanced connections have 6 dB more gain than single-ended connections and allow the use of long interconnect cables. Balanced connections are completely immune to induced noise from the system or the environment.

#### **Single-ended**

A two-wire input or output circuit. Use care when using single-ended connections as the ground connection is made last and broken first. Turn the system off prior to making or breaking single-ended connections. Single-ended connections are not recommended for connections requiring long cable runs.

## **OPERATION**

### **Off**

The component is off when the rear panel button is in the down position.

### **Stand-by Mode**

A low power consumption status that keeps the audio circuits at idle. Move the rear panel breaker switch to the on position and the power status indicator illuminates in red. The component is now ready to be switched to the operational mode. Krell recommends leaving the component in the stand-by mode when it is not playing music.

### **Operational Mode**

When the component is in stand-by mode, press the power button on the front panel and the power status indicator will change to blue. The component is in the operational mode and is ready to play music.

## **TECHNOLOGY**

### **12VDC Trigger**

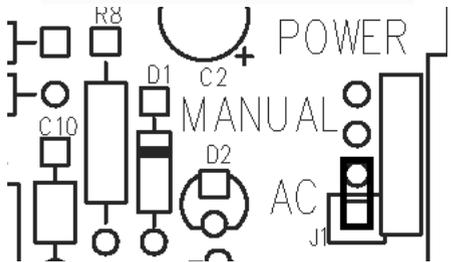
The S-150m may be turned on remotely via a 12 volt trigger. Connect the 12V trigger output from a compatible device to the 12VDC trigger input. The S-150m will go from stand-by to operational mode when a 12 volts signal is applied. The S-150m will return to Stand-by when the 12 volt signal is removed. The S-150m can turn on other devices via 12 volt connection by connecting them to the 12VDC trigger output. When the S-150m enters operational mode, it will output 12VDC and remove it when returned to stand-by.

### **Input Selection**

Put the input select switch in the position that matches the connection being used. Krell recommends the use of balanced/XLR whenever possible.

## OPTIONAL CONFIGURATIONS

**Figure 1 AC Power On**



Faceplate board shown with jumper installed to AC power on.

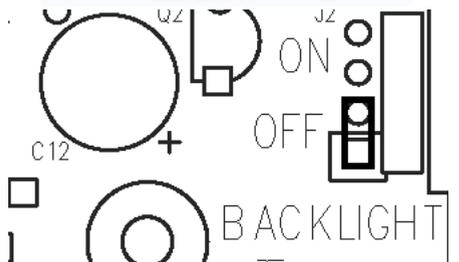
### AC POWER ON

For installations where the S-150m is not accessible or the 12V trigger feature cannot be used, the S-150m may be set to power on and off with the application or removal of AC power. This mode bypasses the stand-by mode. The S-150m will go from power off to full power when the AC outlet is energized. Conversely, the S-150m will power off when power is removed from the connected outlet.

Follow these steps to set the S-150m for AC power turn on:

1. Unplug the S-150m from the AC power outlet.
2. Use a T-15 Torx driver to remove the top cover screws (14)
3. On the left side of the amplifier, behind the faceplate, move the jumper labeled POWER from the two pins labeled MANUAL to the pins labeled AC. See Figure 1

**Figure 2 AC Power On**



Faceplate board shown with jumper installed to BACKLIGHT OFF.

### BACKLIGHT ON/OFF

The S-150m power indicator may be disabled so that it is not illuminated in stand-by (default is red) or operational mode (default is blue).

Follow these steps to disable the S-150m power indicator:

1. Unplug the S-150m from the AC power outlet.
2. Use a T-15 Torx driver to remove the top cover screws (14)
3. On the left side of the amplifier, behind the faceplate, move the jumper labeled BACKLIGHT from the two pins labeled ON to the pins labeled OFF. See Figure 2

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## Unpacking

Follow these steps to safely unpack the S-150m:

1. Open the shipping box and remove the top layer of foam. The S-150m and the S-150m accessory kit containing the following items are visible:
  - 1 AC power cord
  - 1 packet containing the Quick Setup Guide and the warranty registration card
2. Grasp the underside of the amplifier and lift it straight out of the packing box.
3. Place the amplifier in a safe location and remove the protective plastic wrapping.

*If any of these items are not included please contact your authorized Krell dealer.*

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### Notes

*Save all packing materials. If you must ship your S-150m in the future, repack the unit in its original packaging to prevent shipping damage.*

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## Placement

Before you install the S-150m into your system, review the following guidelines to choose the location for the S-150m. This will facilitate a clean, trouble-free installation. The S-150m does not require any type of special rack or cabinet for installation. For the dimensions of the S-150m, see **Specifications**.

Place the S-150m on a firm, level surface, away from excessive heat, humidity, or moisture. The S-150m requires at least 1 inch (2.54 cm) of clearance on each side and at least two inches (5 cm) of clearance above the component to provide adequate ventilation. Installations inside cabinetry may need extra ventilation.

The S-150m is not hum-sensitive. Other components may be placed on or around the S-150m (make sure ventilation grids remain unobstructed).

Place the amplifier as close to the loudspeakers as possible and keep loudspeaker cable lengths to a minimum. Loudspeaker cable adds impedance to the load the amplifier must drive, regardless of the cable's gauge. All Krell amplifiers drive the lowest impedances with ease, but long loudspeaker cables reduce the maximum power that can be delivered to the loudspeakers.

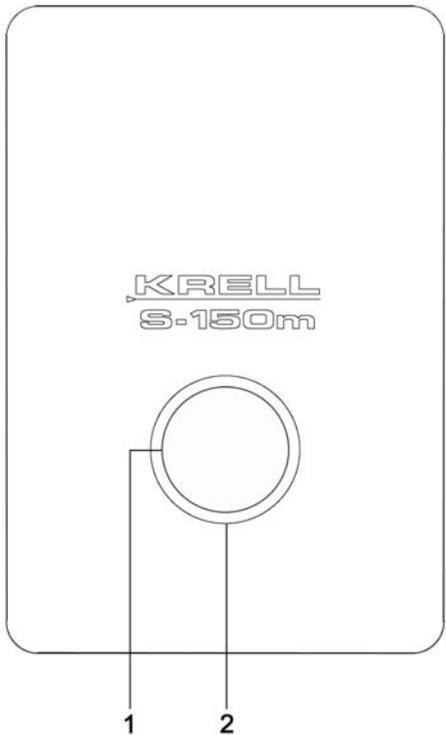
## AC Power Guidelines

The S-150m has superb regulation and does not require a dedicated AC circuit. Avoid connections through extension cords or multiple AC adapters. High quality 15 amp grounded AC strips are acceptable. High quality AC line conditioners or filters may be used if they are grounded and meet or exceed the unit's maximum power consumption of 550 Watts.

## Power Cord

The S-150m should be operated with the power cord supplied and connected directly to the AC power outlet. Please contact your authorized Krell dealer, distributor, or Krell before using any devices designed to alter or stabilize the AC power for the S-150m.

**Figure 3 The S-150 Front Panel**



**Front Panel**

- 1 Power Button
- 2 Power Indicator

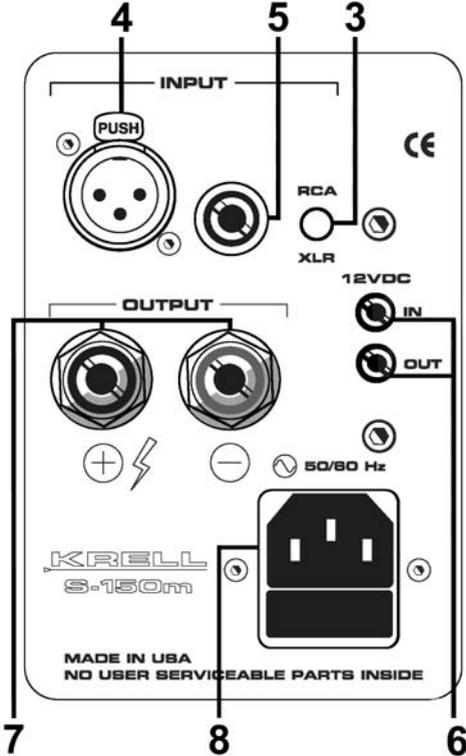
**Rear Panel**

- 3 Input Switch
- 4 Balanced Analog Input
- 5 Single ended Analog Input
- 6 12 VDC Trigger In/Out

**Power**

- 7 Speaker Connectors
- 8 IEC Connector / Fuse Holder

**Figure 4 The S-150 rear panel**



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## Front and Rear Panel Description

See Figures 3 and 4 on page 6 and 7

### 1 Power Button

Use this button to switch the S-150m between the stand-by and the operational modes.

### 2 Stand-by Indicator

The red stand-by indicator illuminates when the S-150m is plugged into a standard AC wall receptacle and the rear panel power button is pressed, indicating that the amplifier is in the stand-by mode and ready to be switched to the operational mode. The indicator turns blue when in operational mode

The S-150m back panel provides connections for all inputs and outputs, power on/off, and additional remote connections.

### 3 Input Switch

Set this switch for the style of connection being used, balanced/XLR or single-ended/RCA.

### 4 Balanced Analog Input

The S-150m is equipped with one balanced input via XLR connector.

### 5 Single-Ended Analog Input

The S-150m is equipped with one single-ended input via RCA connector.

*Consult the owner's reference of the components used in a custom installation to take full advantage of the remote capability of the S-150m.*

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## Front and Rear Panel Description, continued

### **6. 12 Volt Trigger Input/Output.**

**Out.**The output sends 12 VDC (12 V trigger) to other Krell components and other devices that incorporate a 12 V trigger.

**In.**The input receives 12 VDC (12 V trigger) from other Krell components and other devices that incorporate a 12 V trigger.

*The 12 VDC output current is limited to 30 ma.*

### **7 Speaker Connections**

The S-150m is equipped with standard binding posts for each amplifier channel. These connectors accept bare wire, pins, banana plugs, or spade lugs. Use the red terminal for the positive connection and the black terminal for the negative connection.

### **8 IEC Connector / Fuse Holder**

The connector is for use with the provided IEC standard 20 amp power cord.

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# Connecting the S-150m to Your System

## USING BALANCED CONNECTIONS

Krell recommends using balanced interconnect cables. Balanced interconnect cables not only can minimize sonic loss but are also immune to induced noise, especially with installations using long cables. Balanced connections have 6 dB more gain than single-ended connections. When level matching is critical, keep this gain value in mind.

## Connection Steps

Follow these steps to connect the S-150m to your system.

1. Make sure all power sources and components are off before connecting inputs and outputs.
2. Neatly organize the wiring between the S-150m and all system components. Separate AC wires from audio cables to prevent hum or other unwanted noises from being introduced into the system.
3. Connect the loudspeaker cables to the amplifier's loudspeaker output terminals (7).

The S-150m is equipped with standard binding posts for each amplifier channel. These connectors accept bare wire, pins, banana plugs, or spade lugs. Use the red terminal for the positive connection and the black terminal for the negative connection.

4. Connect the output(s) of your preamplifier/processor to the appropriate input (4,5) on the S-150m.

The S-150m is equipped with one balanced input via XLR connector and one single ended input via RCA connector. Set the input switch (3) to the match the input connection.

5. Plug the AC cord into the IEC connector (8) on the back panel of the S-150m. Plug the remaining end into the AC wall receptacle. Press the Power Button on the rear panel, The red stand-by indicator (2) illuminates.

## Operating Your S-150m

The S-150m Amplifier is easy to operate. However, great care should be exercised when operating a system that includes the S-150m, because of the amplifier's power output. Switching between active sources without muting the preamplifier output, or bumping/miscuing a device, can generate large transients at low frequencies. The S-150m may generate enough power with these transients to damage most loudspeakers. To avoid damage, be sure to switch all sources with the preamplifier level either muted or fully attenuated.

*Krell amplifiers have large reserves of clean power and can safely drive loudspeakers to higher sound pressure levels than other amplifiers. However, use care when setting high playback levels and lower the volume level at any sign of loudspeaker distress.*

When powering up any system, always turn amplifiers on last. When powering down, always turn amplifiers off first.

When the amplifier is in stand-by mode, with the red stand-by LED (2) illuminated, turn the amplifier on by pressing the power button on the front panel or the power key on the remote control (1). There is an audible click. The blue power LED (2) illuminates. The S-150m is now in the operational mode and ready to play music.

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## Questions and Answers

- Q. Should I leave my S-150m on at all times?
- A. Krell recommends leaving the amplifier in the stand-by mode, ready to play music. If you are not going to play music for a long time, you may turn off the rear panel power button.
- Q. When I turn on the amplifier there is a loud hum through the loudspeakers. What should I do?
- A. Check all cable terminations, making sure they have solid solder joints and are of sound construction.

With the amplifier off, remove the interconnect cables, then turn the amplifier on. If the hum disappears, turn the amplifier off and reinsert one of the interconnect cables. Turn the amplifier back on. If the hum reappears with one or both cables reinserted, there may be a defective cable. Have the interconnect cables checked before proceeding.

- . If the interconnect cables are sound, you may be experiencing a ground loop. Please contact your authorized Krell dealer, distributor, or Krell for suggestions on how to solve this problem.

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# Warranty

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***To register your product for warranty benefits, please complete and return the Warranty Registration Card enclosed in the shipping box within 15 days of purchase. Thank you.***

This Krell product has a limited warranty of five years for parts and labor on circuitry from date of purchase or six years from date of original shipment from the Krell factory. Should this product fail to perform at any time during the warranty, Krell will repair it at no cost to the owner, except as set forth in this warranty.

The warranty does not apply to damage caused by acts of God or nature.

The warranty on this page shall be in lieu of any other warranty, expressed or implied, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose. There are no warranties which exceed beyond those described in this document. If this product does not perform as warranted herein, the owner's sole remedy shall be repair. In no event will Krell be liable for incidental or consequential damages arising from purchase, use, or inability to use this product, even if Krell has been advised of the possibility of such damages.

Proof of purchase in the form of a bill of sale or receipted invoice substantiating that the unit is within the warranty period must be presented to obtain warranty service. The warranty begins on the date of retail purchase, as noted on the bill of sale or receipted invoice from an authorized Krell dealer or distributor.

The warranty for Krell products is valid only in the country to which they were originally shipped, through the authorized Krell distributor for that country, and at the factory. There may be restrictions on or changes to Krell's warranty because of regulations within a specific country. Please check with your distributor for a complete understanding of the warranty in your country.

If a unit is serviced by a distributor who did not import the unit, there may be a charge for service, even if the product is within the warranty period.

Freight to the factory is your responsibility. Return freight within the United States (U.S.A.) is included in the warranty. If you have purchased your Krell product outside the U.S.A. and wish to have it serviced at the factory, all freight and associated charges to the factory are your responsibility.

Krell will pay return freight to the U.S.A.-based freight forwarder of your choice. Freight and other charges to ship the unit from the freight forwarder to you are also your responsibility.

Krell is not responsible for any damage incurred in transit. Krell will file claims for damages as necessary for units damaged in transit to the factory. You are responsible for filing claims for shipping damages during the return shipment.

Krell does not supply replacement parts and/or products to the owner of the unit. Replacement parts and/or products will be furnished only to the distributor performing service on this unit on an exchange basis only; any parts and/or products returned to Krell for exchange become the property of Krell.

No expressed or implied warranty is made for any Krell product damaged by accident, abuse, misuse, natural or personal disaster, or unauthorized modification.

***Any unauthorized voltage conversion, disassembly, component replacement, perforation of chassis, updates, or modifications performed to the unit will void the warranty.***

The operating voltage of this unit is determined by the factory and can only be changed by an authorized Krell distributor or at the factory. The voltage for this product in the U.S.A. cannot be changed until six months from the original purchase date.

In the event that Krell receives a product for warranty service that has been modified in any way without Krell authorization, all warranties on that product will be void. The product will be returned to original factory layout specifications at the owner's expense before it is repaired. All repairs required after the product has been returned to original factory specifications will be charged to the customer, at current parts and labor rates.

All operational features, functions, and specifications and policies are subject to change without notification.

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## Return Authorization Procedure

### HOW TO EXPEDITE SERVICE

If you believe there is a problem with your component, please contact your dealer, distributor, or the Krell factory to discuss the problem *before* you return the component for repair. To expedite service, you may wish to complete and e-mail the Service Request Form in the Service section of our website at:

<http://www.krellonline.com>

### To contact the Krell Service Department:

TEL	203-799-9954 Monday-Friday, 9:00 am to 5:00 pm EST
FAX	203-799-9796
E-MAIL	<a href="mailto:service@krellonline.com">service@krellonline.com</a>
WEBSITE	<a href="http://www.krellonline.com">http://www.krellonline.com</a>

### HOW TO RETURN A PRODUCT

To return a product to Krell, please follow this procedure so that we may serve you better:

1. Obtain a Return Authorization Number (R/A number) and shipping address from the Krell Service Department.
2. Insure and accept all liability for loss or damage to the product during shipment to the Krell factory and ensure all freight (shipping) charges are prepaid.

The product may also be hand delivered if arrangements with the Service Department have been made in advance. Proof of purchase will be required for warranty validation at the time of hand delivery.

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### IMPORTANT

**Use the original packaging to ensure the safe transit of the product to the factory, dealer, or distributor. Krell may, at its discretion, return a product in new packaging and bill the owner for such packaging if the product received by Krell was boxed in nonstandard packaging or if the original packaging was so damaged that it was unusable. If Krell determines that new packaging is required, the owner will be notified before the product is returned.**

### HOW TO PURCHASE ADDITIONAL PACKING

To purchase additional packaging, please contact your authorized Krell dealer, distributor, or the Krell Service Department for assistance.

Krell Industries, LLC.  
45 Connair Road  
Orange, CT 06477-3650 USA

TEL 203-799-9954, FAX 203-891-2028  
E-MAIL krell@krellonline.com  
WEB SITE www.krellonline.com

# S-150m

## Mono Power Amplifier

v 1.0

### Specifications

*All operational features, functions, specifications, and policies are subject to change without notification.*

#### FREQUENCY RESPONSE

20 Hz–20 kHz

+0 dB, -0.12 dB

#### SIGNAL-TO-NOISE RATIO

“A” weighted

119 dB

#### TOTAL HARMONIC DISTORTION (THD)

1 kHz <0.03%

20 kHz <0.20%

#### GAIN

26.2 dB

#### INPUT SENSITIVITY

1.7 V

#### INPUT IMPEDANCE

20 kOhms single-ended

20 kOhms balanced

#### OUTPUT IMPEDANCE

<.0.080 Ohms

#### POWER CONSUMPTION

Idle 30 W

Max. 550 W

#### TRANSFORMER

310 VA

#### INPUTS

1 balanced via XLR connector

1 single-ended via RCA connector

#### OUTPUTS

1 loudspeaker via 2-standard binding posts

#### OUTPUT VOLTAGE

Peak to Peak 99V

#### OUTPUT POWER

150/300 WPC 8/4 Ohms

#### REMOTE CONTROL

1 12 VDC trigger Output

1 12 VDC trigger Input

#### DIMENSIONS

3.40w X 5.66h X 21.90d in.

86w X 144h X 556d mm

#### WEIGHT

##### Shipped

21.0 lb., 9.5 kg

##### Unit only

17.0 lb., 7.7 kg