

# **THEATER 7 XD**

**7 CHANNEL POWER AMPLIFIER**

**100 WATT AMPLIFIER FEATURING KRELL iBIAS TECHNOLOGY**



**100 Watt Seven Channel Power Amplifier with  
Krell iBias Class A Technology**

# THEATER 7 XD

## 100 WATT 7 CHANNEL POWER AMPLIFIER

Krell iBias Class A amplifiers are the first to deliver the rich musicality of Class A amplifiers and the uncompromised dynamics of classic Krell amplifiers with greater efficiency and lower power consumption than conventional Class A amplifiers.

## DESIGN

### Circuitry Highlights

The amplifier design uses Krell Current Mode technology that is fully differential and discrete in the critical gain stages. This results in a highly linear and extended frequency response, well beyond the range of hearing, for smooth effortless highs and tight high impact bass.

### Power Supply Highlights

The power supply consists of two 787VA toroidal transformers and 160,000uF of capacitance. This is shared among all the channels so all of that power is available to the channels with the most demand.

In real world conditions the left, right, and center channels require the lion's share of the power so this gives the Theater 7 a more effective power supply than other amplifiers that have smaller dedicated power supplies for each channel.

### Feature Highlights

Network connectivity brings convenience, monitoring, and reporting to end users from any smartphone, tablet, or laptop.

Amplifier configuration options include display brightness timeout and inactivity timeout. The inactivity timeout conserves energy by placing the amplifier in stand-by when there is no signal for longer than the selected time period. Firmware updates can also be initiated directly from the web server.

Output current, fan status, and operating temperature are monitored in real time for conformance with preset limits. Any faults are reported on the front panel and also on the web server interface. Additionally, the amplifier will send notification of any operational anomalies to the e-mail addresses entered on the web server interface.

### XD Explained

Krell's "XD" (Xtended Dynamics, Xtended Dimensionality, Xtended Detail) upgrade for the iBias amplifiers takes an already great sounding amplifier and raises its performance to the next level. "XD" is a classic example of Krell's continuous R&D efforts reaping benefits across multiple product lines. During the development of the K-300i Integrated Amplifier we discovered substantial sonic improvements by lowering the output impedance below traditional norms. So we applied this technique to our existing line of amplifiers and the improvement was so substantial that it required a unique designation, hence, "XD."

It was no simple matter to just lower the output impedance. This affects the amplifier's stability and transient response so each stage prior to the output stage had to be re-tuned to work optimally with the lower output impedance. This lower output impedance exerts more control over the speaker drivers and damps out unwanted vibrational modes, allowing a more accurate reproduction of the original signal.

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## SPECIFICATIONS

- 100 Watts into 8 Ohms
- 7 ea - Single-ended RCA and Balanced XLR Inputs
- 1 RJ45 Ethernet Port
- 1 12V Trigger Input
- 7 pr 5-way Speaker Binding Posts
- Optional Rack Mount Kit
- 17.1" (43.4cm) W x 7.65" (19.4cm) H x 21.1" (53.6cm) D
- Weight: 70lb (31.8kg)



Krell Industries, LLC. • 45 Connair Road • Orange, CT 06477-3697 USA  
Tel: 203-298-4000 • Fax: 203-799-9796 • Sales Dept: 203-298-4010 • [contact@krellonline.com](mailto:contact@krellonline.com) • [www.krellonline.com](http://www.krellonline.com)

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