

## User Guide



### **FetHead** High-end microphone pre-amplifier.



## General description

### **Philosophy**

Inspired by the positive results of the BigAmp we wondered if a phantom powered, high quality preamp preceding the microphone cable could improve the sound quality of a ribbon or dynamic microphone. The results were more than convincing. Enter FetHead, our newest innovation in phantom powered preamp design.

### **Which microphones benefit**

In short, we noticed an improvement on all tested dynamic microphones. A Shure sm58 for instance, sounded more responsive over a broader frequency range. When mated with a high-end dynamic microphone like a Sennheiser MD441, FetHead really shines. Ribbon microphones benefit greatly too because of a much better impedance match, which lessens the load on the microphone, thus giving it better transient response characteristics. FetHead's high quality, low noise signal amplification also extends the usable range of a ribbon microphone, by making it more suitable for recording softer passages without introducing noise. Some ribbon microphones do not tolerate phantom power, FetHead's circuit uses Phantom power but shields it from its input (and the microphone's output), as a result it offers effective protection to the microphone.

### **Low noise**

Fethead uses low noise jfets configured as a double class a amplifier. Jfet's are among the most quiet amplifying elements available today. The calculated noise figure of the FetHead based on the jfet's datasheet is lower than we are able to measure. In the real world the noise injected by a FetHead depends on the noise generated by the phantom power supply, if the power supply is quiet, FetHead is quiet.



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### Circuit topology

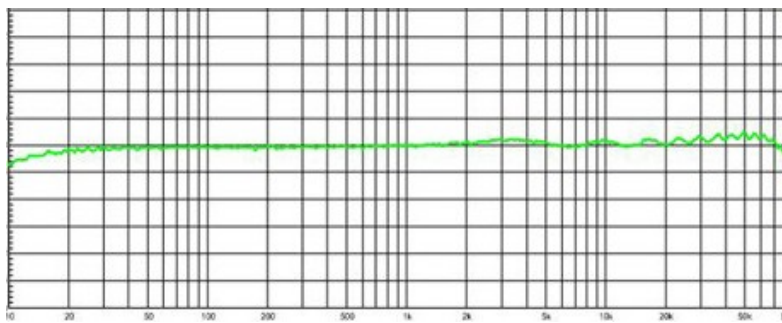
FetHead utilises a low noise jFet amplifier circuit which reveals every detail with pinpoint accuracy and offers high-end sound quality.

### Features

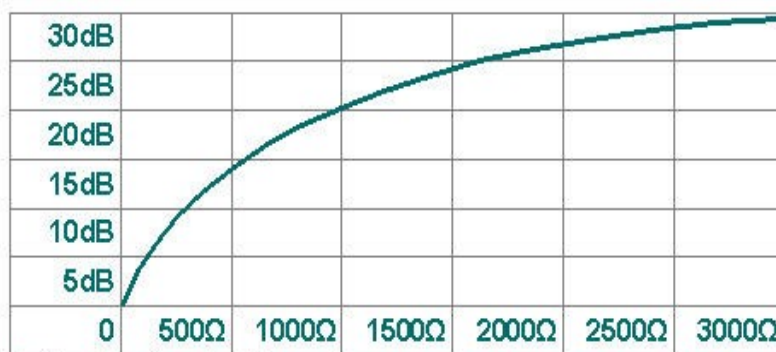
- Low noise Class A JFet amplifier
- 20db amplification (@ 1000 ohm load)
- double single ended amplifier topology
- Balanced xlr input/output
- Lots of headroom
- Power on indicator
- 9-48 v phantom power

### Frequency response

- 10hz-100khz(+/-1db)



### Gain



FetHead: gain vs. load impedance

### Dimensions

height: 3,5"/82,5mm

width: 0,95"/23mm

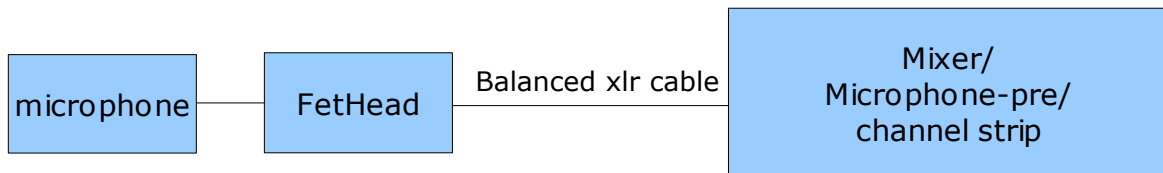
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### Operation

Attach FetHead on to a balanced microphone cable and plug it in a dynamic microphone, switch on phantom power and enjoy FetHeads Natural open sound!

It's also very well possible to use FetHead as a D.I. Simply mount an jack to XLR converter to the input and use it in combination with any instrument with a jack output. Because of the quality of the amplifier FetHead improves the overall sound quality of most channel strips and competes for sound quality with top range microphone pre amplifiers.



### Website

For information on new products, product warranty or technical information please visit [www.tritonaudio.com](http://www.tritonaudio.com)