

# AFS™ 224

*Advanced Feedback Suppression*

**dbx**<sup>®</sup>  
PROFESSIONAL PRODUCTS

## VISIONARY DESIGN

The AFS 224 Advanced Feedback Suppression processor was designed to provide state-of-the-art feedback elimination processing, while maintaining a simple and intuitive control interface. From the powerful DSP module to the no-nonsense user interface, the AFS 224 provides all the processing and control necessary for both installation and live use. The AFS 224 is an absolute must for any live sound application.

## REVOLUTIONARY ENGINEERING

Ten and twelve filter feedback elimination processors have become the de facto standard, but the engineering staff at dbx have never been content residing in the neighborhood of the status quo. So, to raise the bar once again, they went out and developed a dedicated feedback suppression processor that offers up to 24 filters per channel with filter Qs up to 1/80 of an octave. To achieve these staggering numbers dbx utilized their patent-pending AFS technology that had previously only been available in the upper echelon line of products and made it available in this stand-alone processor. In addition to the plethora of feedback suppression filters available, the AFS 224 also offers selectable modes, live filter lift, and types of filtration, which are all readily available via the intuitive user interface front panel. For more information please visit: [www.dbxpro.com](http://www.dbxpro.com).

## FEATURES

- ***dbx's patent-pending Advanced Feedback Suppression (AFS™) technology***
- ***24 Programmable Filters per Channel***
- ***Stereo or Dual Independent Channel Processing***
- ***Live and Fixed Filter Modes***
- ***Selectable Filter Lift Times***
- ***Application-specific filter types include: Speech; Music Low, Med and High***
- ***Input Channel Metering***
- ***24 Segment Filter Metering per Channel***
- ***XLR and TRS Electronically Balanced Inputs and Outputs***

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**H** A Harman International Company



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## SPECIFICATIONS

### Analog Inputs:

Number of Inputs: 2  
Connectors: Female XLR and 1/4" TRS  
Type: Electronically balanced/unbalanced, RF filtered  
Impedance: Balanced 50k $\Omega$ , Unbalanced 25k $\Omega$   
Max input line level: +20dBu  
CMRR: >40dB, typically >55dB @ 1kHz

### Analog Outputs:

Number of Outputs: 2  
Connectors: Male XLR and 1/4" TRS  
Type: Electronically balanced/unbalanced, RF filtered  
Impedance: Balanced >120 $\Omega$ , unbalanced >60 $\Omega$   
Max Output Level: +20dBu

### A/D Performance:

Type: dbx Type IV conversion system  
Dynamic Range: >113 dB A-weighted, >110 dB unweighted, 22kHz BW  
Type IV dynamic range: >119 dB, A-weighted, 22kHz BW  
>117 dB, unweighted, 22kHz BW  
A/D Conversion: 24 bit  
Sample Rate: 48kHz

### D/A Performance:

Dynamic Range: 112 dB A-weighted, 109dB unweighted  
D/A Conversion: 24 bit

### System Performance:

Dynamic Range: >109dB A-weighted, >106 dB unweighted, 22kHz BW  
THD+N: 0.003% typical at +4dBu, 1kHz  
Frequency Response: 20Hz – 20kHz, +/- 0.5dB  
Interchannel Crosstalk: >80dB typical  
Crosstalk input to output: >80dB  
Operating Voltage: 100VAC 50/60Hz, 120VAC 60Hz and 230VAC 50/60Hz  
Power Consumption 9 Watts

### Safety Agency Approvals:

UL 6500, IEC 60065, EN 55013, E 60065

dbx engineers are constantly working to improve the quality of our products. Specifications are, therefore subject to change without notice.

### FOR MORE INFORMATION CONTACT:

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The Professional's Choice In Signal Processing™

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