

iA 231FD Dual Channel 31-Band Digital Graphic Equalizer

Feedback Detection System instantly reveals critical frequencies

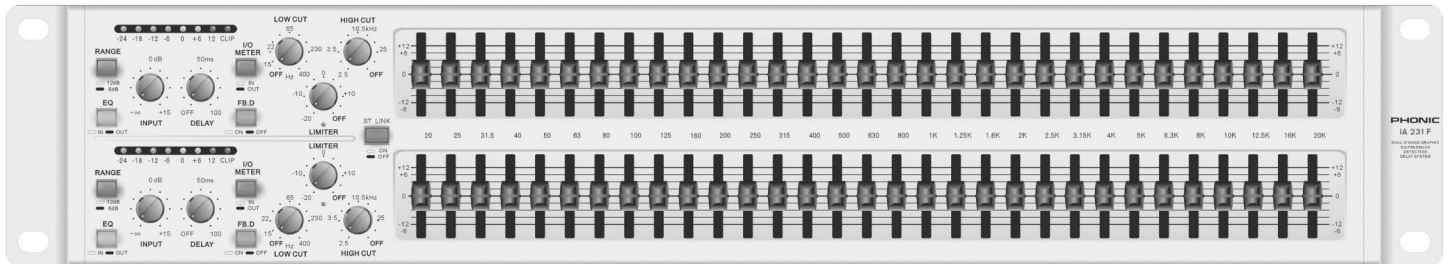
Built-in delay control form (OFF) 1 ms to 100 ms variable

Built-in limiter control form -20 dB to +20 dB(OFF)

Variable low-cut filter, 15 to 400 Hz (off), and high-cut filter, 2.5 to 30 kHz (off)

Dedicated mono subwoofer output with adjustable crossover frequency

Digital AES/EBU and S/PDIF interface 1/4" TRS and XLR connectors (only iA231FD)



FEATURES

- ▶ Professional DUAL 31-band , 1/3 octave stereo Graphic Equalizer
- ▶ 30mm VR for precise adjustment
- ▶ Feedback Detection System instantly reveals critical frequencies and can also be used as Audio Analyzer
- ▶ Built-in delay control form (OFF) 1 ms to 100 ms variable
- ▶ Built-in limiter control form -20 dB to +20 dB (OFF)
- ▶ Variable low-cut filter, 15 to 400 Hz (off), and high-cut filter, 2.5 to 30 kHz (off)
- ▶ Switchable boost/cut range between 6 dB and 12 dB
- ▶ EQ IN/OUT switch
- ▶ I/O Level meter switch
- ▶ Dedicated mono subwoofer output with adjustable crossover frequency
- ▶ +15dB to $-\infty$ input gain range for easy level matching
- ▶ Stereo link function
- ▶ 8-segment LED meter with clip warning for input
- ▶ Illuminated fader
- ▶ Relay-controlled bypass
- ▶ Servo-balanced outputs with 1/4" TRS and XLR connectors
- ▶ Digital AES/EBU and S/PDIF interface 1/4" TRS and XLR connectors (iA231FD only)

The new Phonic iA231F and iA231FD, dual 31-band 1/3 octave graphic equalizers, allow users to easily and conveniently adjust the frequency response of their sound system to best suit their environment. Features include feedback detection, adjustable delay times, variable low and high cut filters, adjustable limiter, as well as a subwoofer output with its own crossover frequency control. With both XLR and 1/4" TRS input and output jacks on all models, the iA231FD also consists of digital AES/EBU and S/PDIF connections, making for a more versatile equalizer. Encompassing an array of useful features, the iA231F and iA231FD are the most necessary components to any live stage or studio set up.

Specifications

Analog Inputs	
Type	balanced input stage
Connector	XLR and 1/4" TRS
Impedance	40 k ohms
Maximum input level	+24 dB
Analog Outputs	
Type	Servo, balanced output stage
Connector	XLR and 1/4" TRS
Impedance	600 ohms
Maximum output level	+24 dB
System	
Frequency Response	20 Hz to 20 kHz +/- 1 dB
THD	0.006% typ @ +4 dBu 1 kHz
Crosstalk	<-80 dB
Noise	<-80 dB
Graphic Equalizer	
Type	Digital 1/3-oct EQ
Frequency Range	20 Hz to 20 kHz, 1/3-oct 31 bands ISO frequencies
Bandwidth	1/3 octave
Control Range	+/-6 or +/-12 dB
Filter	
Type	18 dB/oct, butterworth
Low-cut	Variable 10 Hz to 400 Hz

High-cut	variable 2.5kHz to 30kHz
Limiter	
Attack/Release	20 ms / 85 ms
Threshold	-20 dB to +20 dB (off)
Sub Out	
Frequency Range	20 Hz to 250 Hz
Function Switch and Controls	
FB.D	Feedback detection system
EQ IN	Switch to active and bypass equalizer
I/O Meter	Switch meter display from input to output
RANGE	Switch cut/boost range from +/-6 dB to +/-12dB
DELAY	From 0 to 100ms
LIMITER	Variable -20 dB to +20 dB (off)
STEREO LINK	on/off
SUB OUT	Variable 20 Hz to 250 Hz
INPUT SELECT	Analog / AES / SPDIF (iA 231FD only)
OUTPUT SAMPLING RATE	44.1 / 48 / 96 kHz (iA 231FD only)
Indicators	
Level Meter	8-segment LED display -24/-18/-12/-6/0/+6/+12/clip
Limiter	LED (red)
Power Supply	
Main Voltage	100 to 240 v ~ switching power
Power Consumption	35 W



Back Panel