

i7100

Digital Feedback Eliminator

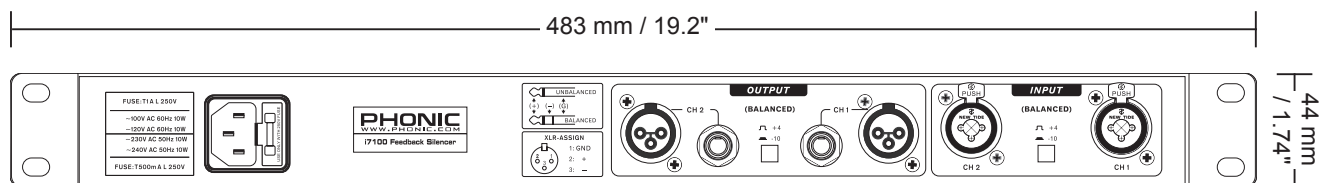


Features

- ▶ 24-bit A/D and D/A converters with 256/512 times over sampling for high headroom and resolution
- ▶ Internal 32-bit processor with 48 kHz sampling rate
- ▶ Automatically searches for feedback in up to 12 frequencies per channel and intelligently removes it
- ▶ 24 fully programmable parametric filters spread over two channels that can be set manually
- ▶ Single-Shot Mode automatically seeks and destroys feedback, locking the filters until manually reset
- ▶ Auto Mode constantly monitors the mix and automatically resets the filters
- ▶ Manual Mode provides each channel with up to 12 fully parametric filters, which include frequency, bandwidth, and gain
- ▶ Single-Shot, Auto, and Parametric filters can be assigned to each individual filter
- ▶ Balanced XLR and 1/4" TRS inputs and outputs
- ▶ 20 user-definable presets, as well as 20 factory presets
- ▶ A 10-segment LED meter per channel for displaying output levels
- ▶ Immediate display and parameter tuning for easy operation
- ▶ Most recent changes are automatically stored and kept - even after the power is off
- ▶ Key-locking of device provides security against accidental alteration of settings

Description

Phonic's i7100 offers 24 feedback filters over two channels. Each filter can be independently set to operate in one of three modes: Single-Shot, Auto, and Parametric. In the Single-Shot mode, each filter is automatically assigned and locked to a feedback frequency until it is manually reset. This mode is best for equalizing systems with stationary microphones where feedback generally occur at only certain fixed frequencies. In the Auto Mode, the filters are dynamically assigned and reassigned to match with varying feedback frequencies. This mode is ideal for systems with mic movements where feedback frequencies tend to vary throughout a program. In Parametric mode, the filters can be manually set to function as a fully parametric EQ, capable of fine adjustments over center frequencies, bandwidth, and gain.



Specifications

Analog Inputs

Connectors	Balanced XLR and 1/4" TRS
Impedance	20 K Ω
Nominal Operating Level	-10dB to +4dB
Max. Input Level	+16 dBu

Analog Outputs

Connectors	Balanced XLR and 1/4" TRS
Impedance	600 Ω balanced
Nominal Operating Level	-10dB to +4dB
Max. Output Level	+16 dBu

System Specifications

Bandwidth	20 Hz to 20 kHz, ± 0.5 dB
Noise	> -90dB, unweighed, 20 Hz to 20 kHz
THD	0.0075%typ at +4 dBu, 1 kHz, Gain 1
Crosstalk	< -80 dB

Digital Processing

Converters	32-bit Sigma-Delta, 256/512-times Oversampling
Sampling Rate	48KHz
Controls	4 function keys and 2 selection jog wheels

Display

Type	3-digit numeric LED-Display
Indication	Channel select mode/frequency mode

Power Supply

Mains Voltages	USA/Canada ~120 V AC, 60 Hz U.K./Australia ~240 V AC, 50 Hz Europe ~230 V AC, 50 Hz
Fuse	100-120V AC: 1A 200-240V AC: 0.5A
Power Consumption	10 Watts
Mains Connection	Standard IEC receptacle

Physical

Dimensions (WxHxD)	483 x 44 x 208 mm (19.02" x 1.74" x 8.19")
Weight	2.2Kg (4.8lbs)