



# DENOISER®

Professional and all-purpose “single-ended” noise reduction system

- ▲ TAC (Transient Attack Control) dynamic filters respond accurately to signals with fast attacks
- ▲ Auto-filter circuitry for automatic sliding filters
- ▲ IRC (Interactive Ratio Control) downward expander for inaudible noise reduction during signal pauses
- ▲ Accurate “gain reduction” and “cut-off frequency” meters
- ▲ Dual mono or true stereo couple function
- ▲ Servo-balanced inputs and outputs on XLR and 1/4" TRS connectors
- ▲ Relay-controlled hard bypass with auto-bypass function during power failure (failsafe relay)
- ▲ Cut-in delay to avoid switch-on “thumps”
- ▲ Ultra low-noise audio operational amplifiers offer outstanding sound performance
- ▲ High-quality detented potentiometers and illuminated switches
- ▲ High-performance output transformer BEHRINGER OT-1 retrofitable
- ▲ Manufactured under ISO9000 certified management system

# SPECIFICATIONS

## Analog inputs

Connectors	XLR and 1/4" TRS
Type	RF filtered, servo balanced input
Impedance	80 kOhms balanced
Nominal operating level	-10 dBV to +4 dBu (switchable)
Max. input level	+20 dBu balanced and unbalanced

## Analog outputs

Connectors	XLR and 1/4" TRS
Type	Electronically servo-balanced output stage (optional transformer-balanced)
Impedance	40 Ohms balanced or unbalanced
Max. output level	+26 dBm balanced, +20 dBm unbalanced

## System specifications

Bandwidth	5 Hz to 100 kHz, +0/-3 dB
Noise	> 104 dBu, fully off
THD	0.02% typ. @ +4 dBu, 1 kHz, Gain 1
Crosstalk	< -85 dBu

## Expander section

Threshold	variable (-40 to +20 dBu)
Release	variable (0.05 to 6 seconds)
Ratio	variable (1:1 to 1:6)

## Filter section

Sensitivity	variable (-50 to +10 dBu)
Release	variable (0.06 to 1.2 seconds)
Cut-off	variable (800 Hz to 6 kHz)

## Function switches

Channel IN/OUT	Relay controlled hard-bypass
Expander IN/OUT	Activates the expander section
Filter IN/OUT	Activates the filter section
Auto	Activates the automatic filter circuitry
Couple	Link feature for stereo tracking

## Indicators

8 LED gain reduction	1/2/4/6/10/15/20/30 dB
8 LED filter bandwidth	1/1.5/2.2/3.3/5/7.5/12/20 kHz
LED indicator for each function switch	

## Power supply

Mains voltages	USA/Canada	120 V ~, 60 Hz
	U.K./Australia	240 V ~, 50 Hz
	Europe	230 V ~, 50 Hz
	General export model	100 - 120 V ~, 200 - 240 V ~, 50 - 60 Hz
Fuse	100 - 120 V ~: <b>T 320 mA H</b>	
	200 - 240 V ~: <b>T 160 mA H</b>	
Power consumption	9 Watts	
Mains connection	Standard IEC receptacle	

## Physical

Dimensions (H x W x D)	1 3/4" (44.5 mm) x 19" (482.6 mm) x 8 1/2" (217 mm)
Net weight	approx. 3 kg
Shipping weight	approx. 4.2 kg

BEHRINGER is constantly striving to maintain the highest professional standards. As a result of these efforts, modifications may be made from time to time to existing products without prior notice. Specifications and appearance may differ from those listed or illustrated.

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