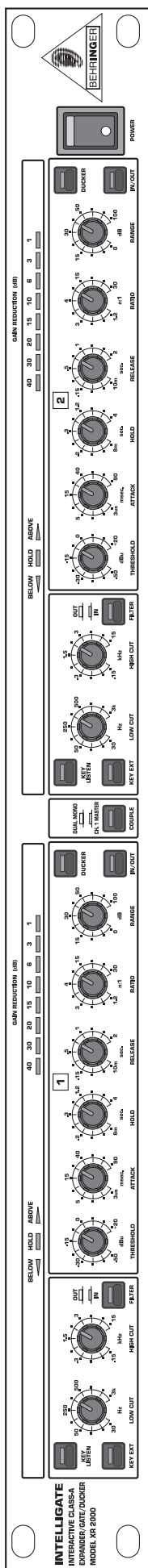


INTELLIGATE®

XR2000



Technical Specifications

Version 1.0 May 2000

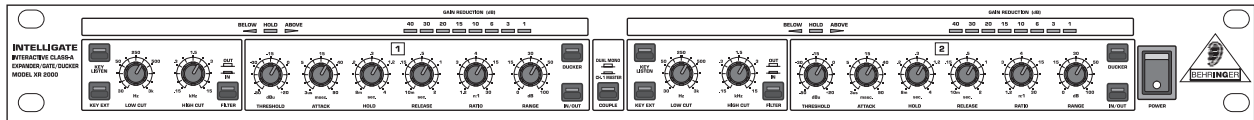
ENGLISH



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INTELLIGATE

The interactive Class-A Expander/Gate/Ducker



- ▲ Ultra-fast gate ($< 3 \mu\text{sec.}$) employing the UTR (Ultra Transient Response) circuit
- ▲ No clicks or pops, regardless of attack speed
- ▲ High-performance Class-A VCA
- ▲ BEHRINGER's extremely low-noise audio op-amps
- ▲ Ultra-low distortion
- ▲ 100 dB of attenuation
- ▲ Servo-balanced inputs and outputs
- ▲ IRC (Interactive Ratio Control) expander circuit eliminates "chatter" on or around the threshold point
- ▲ Relay controlled hard-bypass with auto-bypass function during power failure (failsafe relay)
- ▲ Cut-in delay to avoid switch-on thumps
- ▲ High precision key filters for frequency selective operation
- ▲ Key external and key listen facilities
- ▲ Accurate gain reduction meter
- ▲ Illuminated switches
- ▲ 41 detent potentiometers
- ▲ XLR and 1/4" jack connectors
- ▲ High-performance output transformer BEHRINGER OT-1 retrofittable
- ▲ Manufactured under ISO9000 certified management system

SPECIFICATIONS

Analog inputs

Connectors	XLR and 1/4" jack
Type	RF filtered, servo-balanced input
Impedance	80 k Ω , balanced
Max. input level	+20 dBu balanced and unbalanced
CMR @ 1 kHz	> 40 dB

Key input

Connectors	1/4" jack
Type	DC de-coupled, unbalanced input
Impedance	> 20 k Ω
Max. input level	+20 dBu

Analog outputs

Connectors	XLR and 1/4" jack
Type	electronically servo-balanced output stage (optional transformer-balanced), automatic level correction for unbalanced use (correction = 6 dB)
Impedance	< 40 Ω balanced and unbalanced
Max. output level	+26 dBm balanced, +20 dBm unbalanced

Key input

Connectors	1/4" jack
Type	DC de-coupled, unbalanced input
Impedance	< 150 Ω
Max. input level	+20 dBu

System specifications

Bandwidth	5 Hz to 100 kHz, +0/-0.2 dB
Noise	> -96 dBu, fully off
THD	0.01 % typ. @ +4 dBu, 1 kHz, gain 1
Crosstalk	> -85 dBu @ 20 kHz

Gate section

Type	UTR (Ultra Transient Response) gate
Threshold	variable (-50 dBu to +20 dBu)
Attack	variable (3 μ s to 90 ms)
Hold	variable (8 ms to 4 seconds)
Release	variable (10 ms to 2 seconds)
Range	variabel (0 to 100 dB)

Expander section

Type	IRC (Interactive Ratio Control) expander
Ratio	variable (1.2:1 to 30:1)

Key filter section

Low cut	variable (30 Hz to 3 kHz, 12 dB/oct.)
High cut	variable (150 Hz to 15 kHz, 12 dB/oct.)

Function switches

In/Out	relay controlled hard-bypass
Filter	inserting the internal key filters
Key external	switching to the external key input
Key listen	monitoring the external key input
Ducker	switching to ducker mode
Couple	linking both channels for stereo operation

Indicators

8 element gain reduction meter 1/3/6/10/15/20/30/40 dB

"Below" LED key signal level is below the threshold

"Hold" LED key signal level is at threshold

"Above" LED key signal level is above threshold

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 ~:	T 320 mA H
	200 - 240 V ~:	T 160 mA H
Mains connection	standard IEC receptacle	

Physical

Dimensions (H * W * D)	1 3/4" (44.5 mm) * 19" (482.6 mm) * 8 1/2" (217 mm)
Net weight	app. 3.2 kg
Shipping weight	app. 4.5 kg

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