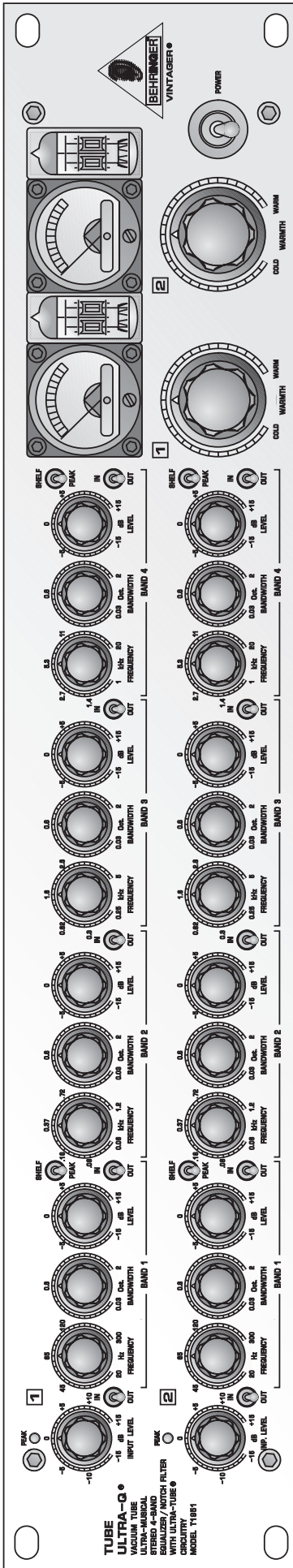


TUBE ULTRA-Q® T1951



Tech. Specifications

Version 1.1 May 2000

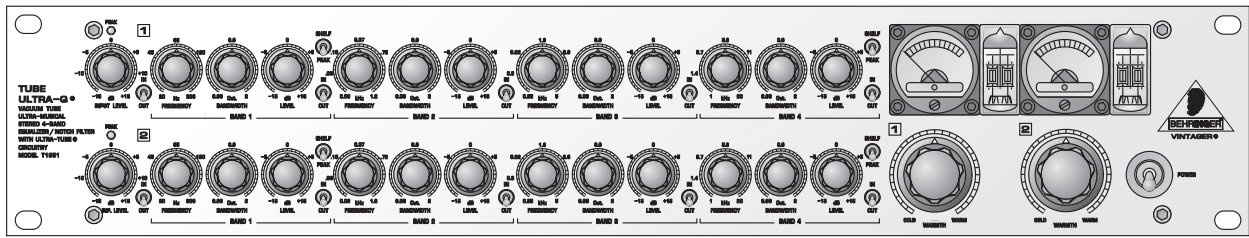
ENGLISH



www.behringer.com

TUBE ULTRA-Q

Ultra-musical 4-band Tube Parametric Equalizer delivers outstanding equalization both in live applications and in the studio



- ▲ For gentle contouring and audio sweetening in audio post-production and recording studios
- ▲ For room equalization and extreme corrective surgery e.g. notching out unwanted frequencies
- ▲ Our new ULTRA TUBE circuitry warms up your music without unwanted noise
- ▲ A special “Warmth” control lets you add the amount of tube sound you want
- ▲ Selected 12AX7 tubes for outstanding, ultra-musical tube sound
- ▲ Parallel filter architecture ensures minimal phase shift and extremely transparent audio performance
- ▲ Precision State-Variable filters with Constant-Q principle ensure absolutely stable filter characteristics
- ▲ Each band is switchable in/out and is fully adjustable from extremely narrow notch filter (0.03 octave) to broadband equalization (2 octaves)
- ▲ A wide overlap between frequency bands allows for extreme cut or boost
- ▲ Additional sweepable High and Low Cut filters remove unwanted frequencies e.g. floor rumble and tape hiss
- ▲ Servo-balanced inputs and outputs
- ▲ Gold-plated XLR and 1/4" TRS connectors
- ▲ Relay-controlled Hard-Bypass with an auto-bypass function during power failure (failsafe relay)
- ▲ Cut-in delay to avoid switch-on “thumps”
- ▲ Ultra-low noise 4580 audio operational amplifiers offer outstanding sound performance
- ▲ High-quality detented potentiometers and illuminated switches
- ▲ Huge back-lit analog VU meters with stylish “Retro” design
- ▲ BEHRINGER’s high-performance OT-1 output transformer retrofittable
- ▲ High-quality components and exceptionally rugged construction ensures long life
- ▲ Manufactured under ISO9000 certified management system

SPECIFICATIONS

Audio input

Connectors	XLR and 1/4" TRS jack
Type	RF filtered, servo-balanced input
Impedance	50 kOhm balanced, 25 kOhm unbalanced
Max. input level	+21 dBu balanced and unbalanced
CMRR	typ. 40 dB, >55 dB @ 1 kHz

Audio output

Connectors	XLR and TRS 1/4" jack
Type	electronically servo-balanced output stage
Impedance	60 Ohm balanced, 30 Ohm unbalanced
Max. output level	+21 dBu, +20 dBm balanced and unbalanced

System specifications

Bandwidth	18 Hz to 30 kHz, +/- 3 dB
Signal-to-noise ratio	>100 dB, unweighted, 22 Hz to 22 kHz
THD	0.002 % typ. @ +4 dBu, 1 kHz, unity gain
IMD	0.01 % typ. SMPTE

Filter section

Type	state-variable parametric filter
Level	variable (-15 dB to + 15 dB)
Frequency	band 1: 20 Hz to 300 kHz band 2: 60 Hz to 1.2 kHz band 3: 250 Hz to 5 kHz band 4: 1 kHz to 20 kHz
Bandwidth	variable (0.03 to 2 Octaves)

Function switches/indicators

Audio In/Out	relay-controlled hard-wire bypass
Shelf/Peak	switches outer bands from shelving to parametric
In/Out	activates each filter bank
Peak LED	LED indicator of input overload
Warmth	variable (+10 dB to +60 dB)

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
Power consumption	max. 35 Watts	
Fuse	100 - 120 V ~: T 1 A H 200 - 240 V ~: T 500 mA H	
Mains connection	standard IEC receptacle	

Physical

Dimension	app. 3 1/2" (89.5 mm) * 19" (482.6 mm) * 8 1/2" (217 mm)
Net weight	app. 8.0 kg
Shipping weight	app. 10 kg

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