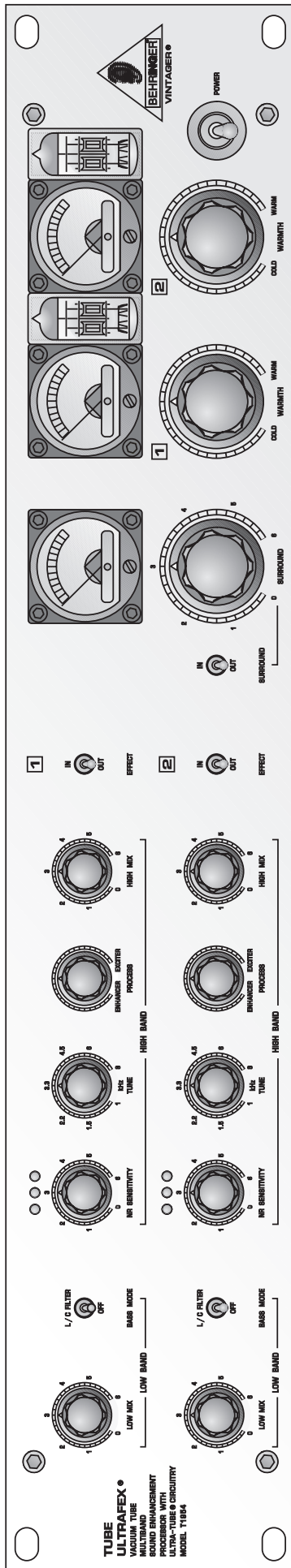


TUBE ULTRAFEX® T1954



Tech. Specifications

Version 1.1 May 2000

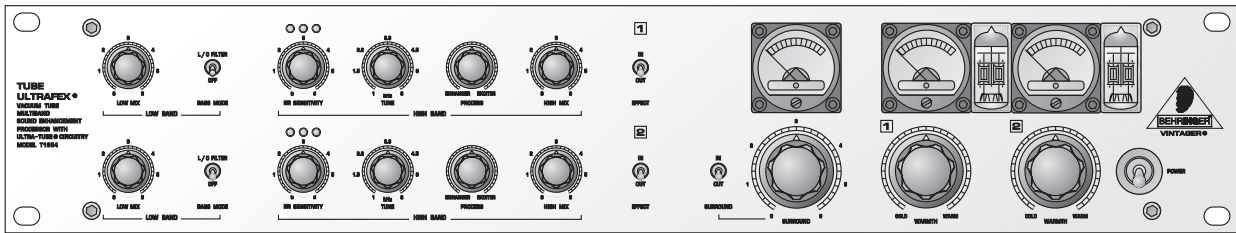
ENGLISH



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TUBE ULTRAFEX

Professional, multi-purpose Sound Enhancement system for high-end studio and stage applications



- ▲ 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
- ▲ Gives your music extra sparkle and makes your instruments or mixes stand out
- ▲ Releases untapped sonic resources and adds detail to instruments, vocals and mixed program material
- ▲ Multiband concept provides incredible bass power and high frequency transparency
- ▲ “Natural Sonic” processor for ultra-musical sound improvement
- ▲ VSP (Variable Sound Processing) circuit for simultaneous Enhancer and Exciter processing
- ▲ Special LC coil/cap filter produces authentic vintage “soft” and “tight” bass sounds
- ▲ Surround processor provides real spatial enhancement and improved stereo imaging
- ▲ Built-in Noise Reduction system with precision LED display to provide clear visual indication of operation
- ▲ Servo-balanced gold-plated XLR and 1/4" TRS inputs and outputs
- ▲ Ultra-low noise 4580 audio operational amplifiers for outstanding sound performance
- ▲ Relay-controlled Hard-Bypass with auto-bypass function during power failure (failsafe relay)
- ▲ High-quality detented potentiometers and switches with authentic vintage style knobs
- ▲ Huge back-lit analog VU meters and “Retro” design
- ▲ BEHRINGER high-performance OT-1 output transformer retrofittable
- ▲ Exceptionally rugged construction ensures long life and durability
- ▲ Manufactured under ISO9000 certified management system

SPECIFICATIONS

Audio input

Connectors	XLR and 1/4" jack
Type	RF filtered, servo-balanced input
Impedance	50 kOhms balanced, 25 kOhm unbalanced
Max. Input Level	+21 dBu balanced and unbalanced (unity gain)
CMRR	typ. 40 dB, >55 dB @ 1 kHz

Audio output

Connectors	XLR and 1/4" jack
Type	electronically servo-balanced output stage (optional transformer-balanced). Automatic level correction for unbalanced use (6 dB)
Impedance	60 Ohms 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	0.008 % typ. @ +4 dBu, 1 kHz, Gain 1 0.04 % typ. @ +20 dBu, 1 kHz, Gain 1
IMD	0.01 % typ. SMPTE
Crosstalk	< -100 dB, 22 Hz to 22 kHz

Bass Processor

Type	"Dual Mode" Bass Processor
Low Mix	variable (0 to 6)

Multiband Processor

Type	"Natural Sonic" Processor with VSP (Variable Sound Processing)
NR Sensitivity	variable (0 to 6)
Tune	variable (1 to 8 kHz)
Process	variable (Enhancer to Exciter)
High Mix	variable (0 to 6)

Surround section

Surround	variable (0 to 6)
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Function switches and controls

Bass Mode	switches the bass sound from "Soft" to "Tight"
Effect In/Out	activates the relay controlled hard-bypass
Surround In/Out	activates the Surround Processor

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

Physical

Dimension (H * W * D)	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. 10.0 kg

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