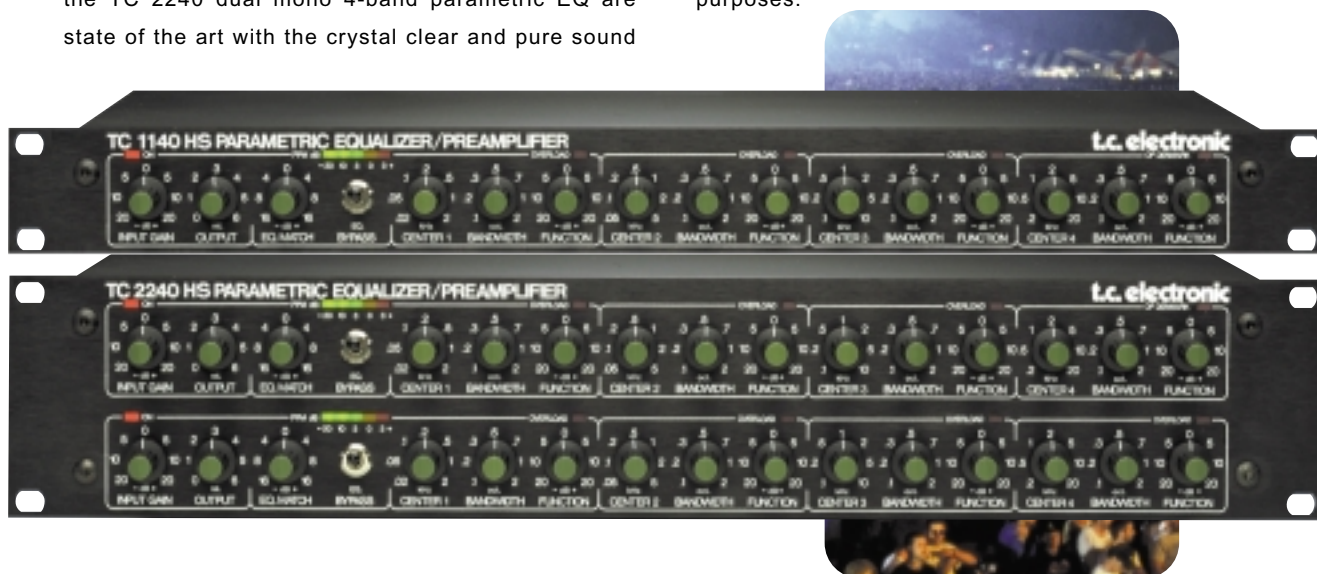


TC 1140 / 2240

PARAMETRIC EQUALIZER/PREAMPLIFIER

The TC 1140 and the TC 2240 are the timeless equalizer creations from TC Electronic designed for maximum audio reliability. The TC 1140 mono and the TC 2240 dual mono 4-band parametric EQ are state of the art with the crystal clear and pure sound

quality. Widely controllable and precise filters of minimum-phase type. The simple design and construction make them easy to operate for all purposes.



FEATURES:

- ◆ 4-BAND PARAMETRIC EQUALIZER.
- ◆ +/- 20 dB CUT OR BOOST ON EACH BAND.
- ◆ WIDE OVERLAPPING OF EQ BANDS.
- ◆ SYMMETRICAL MINIMUM-PHASE FILTERS.
- ◆ PREAMPLIFICATION OF LOW LEVELS UP TO 20 dB BOOST.
- ◆ DYNAMIC RANGE: >116 dB.
- ◆ FREQUENCY RESPONSE: 10-100kHz, +/-1dB.
- ◆ BANDWIDTH FOR EACH OF THE 4 FILTERS 0.1 - 2 OCTAVES.
- ◆ BALANCED AND UNBALANCED INPUTS AND OUTPUTS.
- ◆ EQ MATCH LEVEL FOR UNITY GAIN.
- ◆ EXTERNAL BYPASS OF THE EQ-SECTION.

APPLICATIONS:

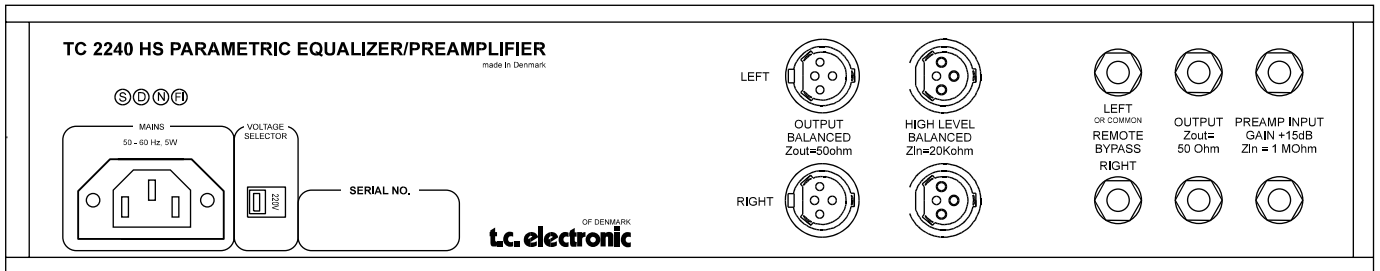
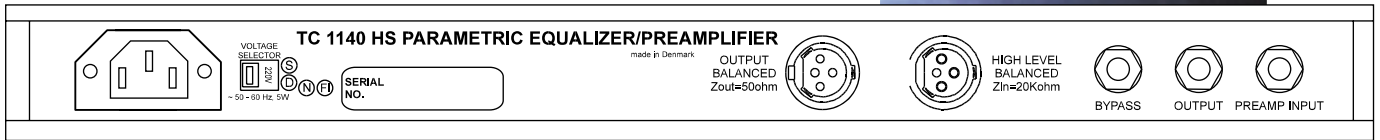
- ◆ **Sound Reinforcement:** MASTER EQ FOR PA TOWERS, SPEAKER ALIGNMENT AND FEEDBACK SUPPRESSION FOR STAGE MONITOR SOUND.
- ◆ **Fixed Installations:** MASTER EQ, SPEAKER ALIGNMENT AND FEEDBACK SUPPRESSION FOR WIRELESS MICROPHONES.
- ◆ **Recording Studio:** MASTER OR OUTBOARD EQ FOR CHANNEL INSERTION.
- ◆ **Broadcast:** TRANSMISSION EQ AND OUTBOARD EQ FOR SOUND PRODUCTION.
- ◆ **Post Production:** MASTER OR OUTBOARD EQ FOR SOUND PRODUCTION.
- ◆ PREAMPLIFICATION FOR INSTRUMENTS AND WITH LINEDRIVEN BALANCED AND UNBALANCED OUTPUTS.

t.c. electronic[®]
ULTIMATE SOUND MACHINES

Aug/98

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V I S I T O U R W E B S I T E A T : H T T P : / / W W W . T C E L E C T R O N I C . C O M

TC 1140/2240



TECHNICAL SPECIFICATIONS:

FREQUENCY RESPONSE:	10Hz -100 kHz, +/-1dB
DYNAMIC RANGE:	> 116 dB (120 dB bypass)
THD:	< 0.015% @ 1kHz, 0 dBu
INPUT:	Balanced XLR 20 kOhm, max. +22 dBu Unbalanced Jack 1 MOhm, max. +6 dBu
OUTPUT:	Balanced XLR 50 Ohm, max. +27 dBu Unbalanced Jack 50 Ohm, max. +21 dBu
PPM:	5 LED Peak Programme Metering
INPUT GAIN:	-20 dB, Jack input +15 dB
OUTPUT GAIN:	0 dB to mute
EQUALIZER FILTERS:	Boost/Cut -20 dB, symmetrical boost/cut Bandwidth 0.1 to 2 octave Range 1: 20-2,000 Hz Range 2: 50-5,000 Hz Range 3: 100-10,000 Hz Range 4: 200-20,000 Hz
POWER:	Voltage Selector: 100-120 or 220-240 V, 50-60 Hz IEC mains connector, External fuseholder
ON:	Lights up when unit is powered, stronger when equalizer section is switched on
INPUT GAIN:	Adjusts sensitivity at input by +/-20dB
OUTPUT LEVEL:	From +6dB to minus infinity
EQ MATCH:	Level control of equalized signal
PPM INDICATOR:	Indicates available headroom before clipping
EQ BYPASS:	Equalizer bypass
CENTER:	Picks frequency band for correction. Marking in kHz
BANDWIDTH:	Controls broadness of affected band. Scaling in octaves
FUNCTION:	Boost, neutral, at level control
OVERLOAD:	Indicates overload
DIMENSIONS (WxHxD):	TC 1140: 482x44x185 mm. 19 x 1.75 x 7.3 TC 2240: 482x89x185 mm. 19 x 3.5 x 7.3
NET. WEIGHT:	TC 1140: 2.7 Kgs/6 lbs TC 2240: 3.5 Kgs/7.7 lbs
SHIPPING WEIGHT:	TC 1140: 3.5 Kgs/7.7 lbs TC 2240: 5.0 Kgs/11.0 lbs
ENVIRONMENT:	Operating 0 °C to 50 °C, storage -20 °C to 60°C
FINISH:	Black anodized aluminum faceplate

Note: Due to continuous development and standardization all specifications are subject to change without notice

ARCHITECTS & ENGINEERS SPECS:

The parametric shall contain one set (two in the case of 2240) of 4 filters with overlapping frequency centers. The range of the four filters shall be 20-2000Hz, 50-5000Hz, 100-10,000Hz and 200-20,000Hz. Each filter shall provide up to 20 dB boost or cut at center frequency. Boost/Cut, Bandwidth and Center Frequency shall be controlled by variable potentiometers. The filters shall be of an adjustable Q design and shall have a bandwidth of 0.1 to 2 octaves wide. The equalizer shall contain an input gain control that permits adjustment of input gain -20 dB and an output level control with an additional 6dB of available gain. The equalizer shall also have an EQ stage level control to allow the comparison of levels in and out of EQ bypass. The unit shall provide a front panel electronic EQ bypass switch which shall remove all equalizers from the signal chain. With the unit in the EQ off position the input and output gain amplifiers shall remain in the circuit.

The input shall be active and receive either balanced or unbalanced sources. Unbalanced input shall be on a 1/4 Phone jack and shall have an input impedance of 1MOhm, while output shall have impedance of 50Ohm. Unbalanced inputs and outputs shall be capable of a maximum level of +6dBu. Balanced inputs and outputs shall be on XLR connectors. The XLR inputs shall have an input impedance of 20 kOhm in the balanced mode and 10 kOhm in the unbalanced mode. Balanced inputs and outputs shall be capable of a maximum level of +22dBu (0 dBu = 0.775 V). Total harmonic distortion shall not exceed 0.015% at 1kHz at 0dBu. frequency shall be flat +0, -1dB from 10Hz to 100kHz. In the event of a power loss, the unit shall contain a circuit that ensures that the equalizer remains in-circuit on power up.

The unit shall contain an electronic bypass jack on the rear panel (1/4) that is internally switchable between momentary and latching switch types. The unit shall measure 482 mm (19) wide and shall occupy 1 (2 in case of 2240) EIA rack space(s). Depth behind the front panel shall be 185 mm (7.3 inches). The unit shall have user selectable mains voltage at 120/240 volts AC, at 50/60 Hz. The unit shall be capable of operating between -20% and +10% nominal line voltage and shall draw no more than 5 watts (1140) and 8 watts (2240). The acceptable operating environment shall be from 0 °C to 50 °C and storage environment shall be from -20 °C to 60 °C. The unit shall be a TC Electronic 1140 (2240) Parametric Equalizer/Amplifier.

AUTHORIZED DEALER:

