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ADVANCE  
INFORMATION

# The Quad 510 and 520 power amplifiers.

Quad, synonymous with performance and reliability, introduce two amplifiers for professional users, the Quad 510 and Quad 520.

Both amplifiers incorporate the experience gained during nearly half a century of amplifier manufacture, and are designed for use in broadcasting and recording studios and for sound reinforcement wherever performance quality is a first consideration.

They are fully protected and are virtually proof against mis-use. No harm can be caused by factors such as gross overload, continuous operation or short circuits, heavy reactive loading, inadequate ventilation etc.

Both amplifiers use a refined version of the current dumping circuit technique first used in the Quad 405.

The Quad 510 is a single channel 130 watt amplifier for 19 inch 2U rack mounting. The balanced signal input is suitable for bridging 600 $\Omega$  lines, 0.775V rms, with a lockable gain control.

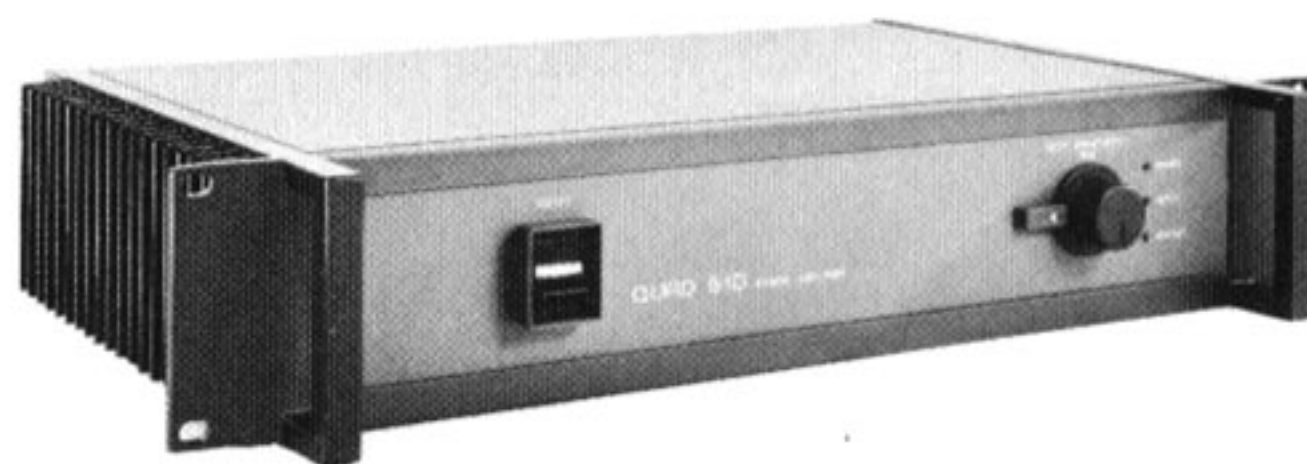
The output is isolated and provides up to 130 watts into almost any impedance from 2 $\Omega$  to 75 $\Omega$ , the choice being determined by a plug-in card.

The Quad 510 is thus highly versatile and can be used either singly or in groups to provide virtually any power into any load.

The Quad 520 is a two-channel 100 to 150 watt amplifier for 19 inch 2U rack mounting. Intended to drive loudspeaker loads the amplifier will deliver up to 100 watts into 8 $\Omega$  or 150 watts into 4 $\Omega$  with very low distortion.

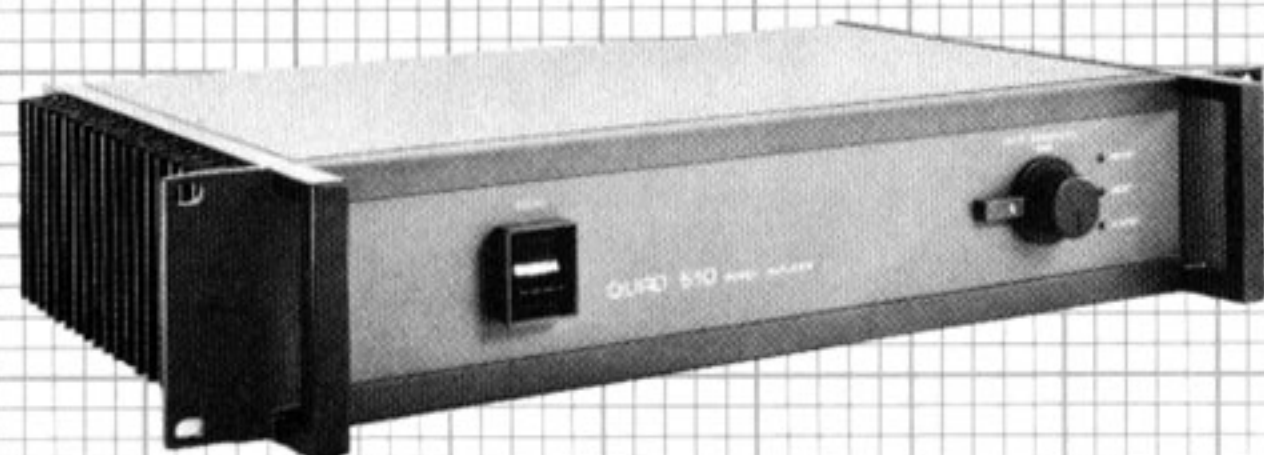
Input sensitivity is 0.5V rms for full output with a lockable gain control. Balanced inputs can be provided to special order.

The standard of quality of both amplifiers is of the highest order, and with any complex input distortion falling within the useful part of the audio range will not exceed a small fraction of one percent. Overloading with any load will not significantly affect long time constants, ensuring immediate recovery and minimum distortion resulting from such overload.



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## THE QUAD 510 SPECIFICATION.

Power Output: 135 watts rms. Any load 2 to 75 $\Omega$ .

Distortion: Less than 0.01% at 1kHz. Less than 0.1% at 20kHz.

Hum and Noise: Better than -115dB referred to full output (unweighted).

Frequency Response: 600 $\Omega$  bridging: -2dB at 30Hz and 20kHz referred to 1kHz.

Input Level: 0.775V rms for full output, balanced. Pre-set adjustment for higher levels.

Input Impedance: 600 $\Omega$  bridging: Greater than 14k $\Omega$  in parallel with 50H.

Stability: Unconditionally stable with any load.

Power Response: Better than -1dB at 30Hz and 20kHz referred to maximum output.

AC Input: 110 to 120V or 220 to 240V. 50 to 60Hz.

Weight: 12.5Kgs.

Dimensions: 482.6mm (19") wide. 88mm(2U) high, 310mm deep (including handles).

Output Options: Volts rms. Recommended Minimum Load Impedance

100V	72 $\Omega$
66V	32 $\Omega$
50V	18 $\Omega$
33V	8 $\Omega$
25V	4 $\Omega$
16V	2 $\Omega$



## THE QUAD 520 SPECIFICATION.

Power Output: 100 watts per channel into 8 $\Omega$ . 150 watts per channel into 4 $\Omega$ .

Distortion: Less than 0.01% at 1kHz. Less than 0.1% at 20kHz.

Hum and Noise: Better than -115dB referred to full output (unweighted).

Frequency Response: -1dB at 20Hz and 20kHz referred to 1kHz.

Input Level: 0.5V rms. Pre-set adjustment for higher levels.

Input Impedance: 20k $\Omega$  unbalanced.

Stability: Unconditionally stable with any load.

AC Input: 110 to 120V or 220 to 240V. 50 to 60Hz.

Weight: 12.5Kgs.

Dimensions: 482.6mm (19") wide. 88mm(2U) high, 310mm deep (including handles).

Quad Electroacoustics Ltd  
Huntingdon Cambs PE18 7DB England  
Telephone (0480) 52561  
Telex 32348 QUAD G

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