



SERIES 700

The D R series 700-2 is the successor to the highly successful 700-1 series and has been designed to meet the demand for a professional quality mixer at a budget price, but with yet more facilities, such as higher input sensitivity for home and classical recording. It is an ideal partner in 2 track Public Address and audio visual recording situations.

Each channel has as standard an extremely low noise electronically balanced mic amp with high hum rejection utilising the successful combination of bipolar low noise PNP-transistors with high slew-rate Bi-Fet opamps. Another innovation is the switched line input which, of course, can also be used as an unbalanced mic input. It gives the advantage of having a high level input. It can then be seen as an input pad. Below the XLR input there is an insertion point at 0 dBu for connecting ancillary equipment such as Compressor, Noise gate, etc.. The gain control, with a range 42 dB, adjusts the incoming signal.

By making use of the -20 dB switch it can be further extended.

The equalizer section spans the whole audio spectrum. The high shelves at 10 kHz and the low at 70 Hz whilst the mid section is sweepable from 200 Hz to 7000 Hz, an enormous range. This form of equalizer can handle any incoming signal adequately. As an option we can build in an equalizer on/ off switch. Then there are 3 aux sends. Aux 1 is intended to be used as foldback send and therefore wired pre-fader. Aux 2 and 3 are wired post-fader and mainly intended to be used as effect sends. As option we can offer factory set pre post selection Aux 1 to 3. The pan pot adjusts the signal from left to right with a -3 dB down in the centre which is standard studio practise studio for mono compatibility.

Pre fade listening is provided by the solo switch while Overload is indicated by the peak led. A smooth acting fader completes the channel.

The master section has three faders, one for Aux 1 (foldback) and the other two for master left and right. These 3 master sections have electronically balanced outputs on XLR connectors. The Aux send 2 and 3 have rotary master controls and have also balanced outputs intended as effect sends. These 2 Aux masters have returns in the Aux 1 and master left / right mix amps.

Monitoring is done through a high level stereo headphone amp which can handle headphones with an impedance from 8 to 2000 Ohm.

The Led bar is a well proven design with 13 segments with vu characteristics and can be switched to any in- or output. The 700 series has standard a talk-back facility and a tape output.

All the electronics include the latest development in low noise high output Bi-Fet op-amps. A complete new approach to limiting of above audio frequencies, through passive filtering (in place of the standard active filtering) gives this console an incredible transparency through its absence of transient distortion.

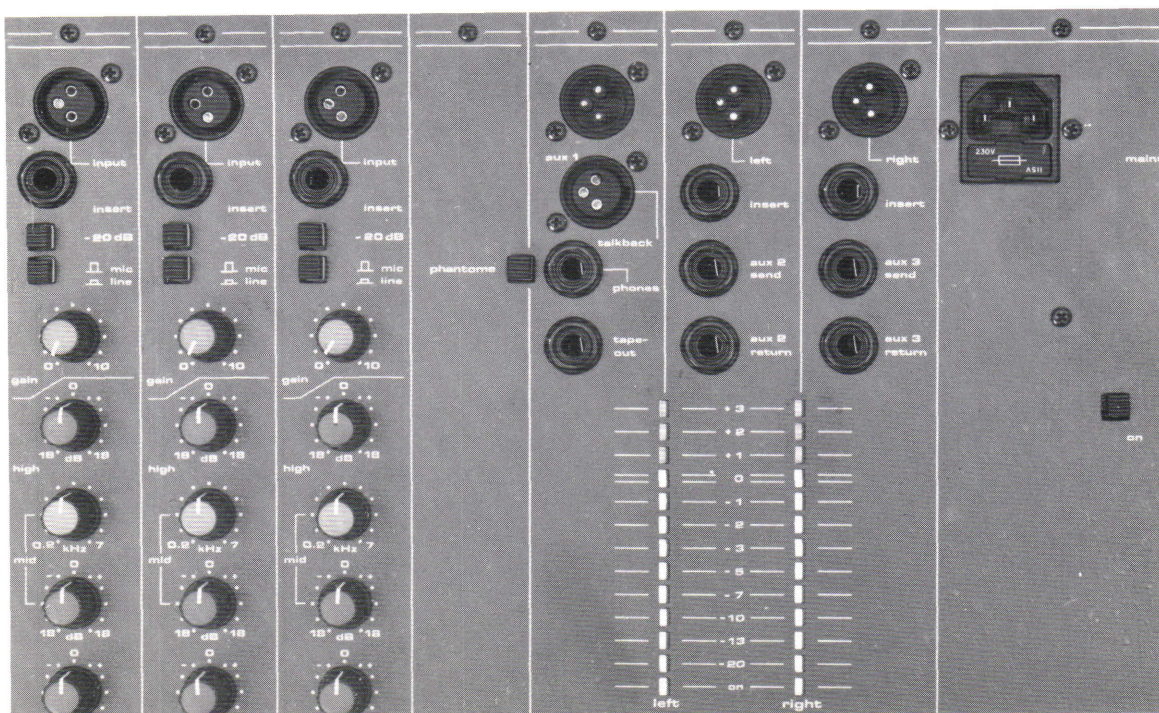
By critically damping every integrated circuit at a 40 kHz square wave, we have achieved complete elimination of overshoot and/or ringing and slewing. This way of designing the electronics in a mixing console contributes to a superb transparency throughout the audio range.

Construction is of aluminium covered with transparent udestructable finish, which gives an excellent protection for the lettering. The mixer is housed in a 'road proof' console but can also be delivered in a flight-case.

The mixer is available in 6, 12, 18 and 24 channel versions.

OPTIONS

Equalizer on / off switches (except for stereo)
Mute switches
Factory set pre / post wiring for Aux 1,2,3.
Fader start switches
Stereo R.I.A.A. channels.
Penny & Giles faders
Alps Luxe faders



SPECIFICATIONS

INPUTS

mic impedance 2 kOhm balanced common mode rejection at 50 Hz -70 dB
line impedance 10 kOhm unbalanced
min/max line input sensitivity -20 dBu to +22 dBu
Aux returns 10 kOhm -20 dBu.

INSERTS

0 dBu at 100 Ohm output impedance and 10 kOhm input impedance

OUTPUTS

Left / right / Aux 1 +4 dBu at 100 Ohm balanced
Aux 2/3 +4 dBu at 100 Ohm balanced

NOISE

mic input at max gain -126,5 dB 20 - 20.000 Hz
output noise master fader down -92 dBu
output noise master fader up -79 dBu (12 channel)

FREQUENCY RESPONSE

20 - 20.000 Hz 0.025 dB -3 dB at 80.000 Hz

EQUALISATION

± 18 dB at 15.000 Hz shelve
± 16 dB at 10.000 Hz shelve
± 18 dB from 200 Hz to 7000 Hz bell curve Q 2.5
± 16 dB at 70 Hz shelve
± 18 dB at 50 Hz shelve

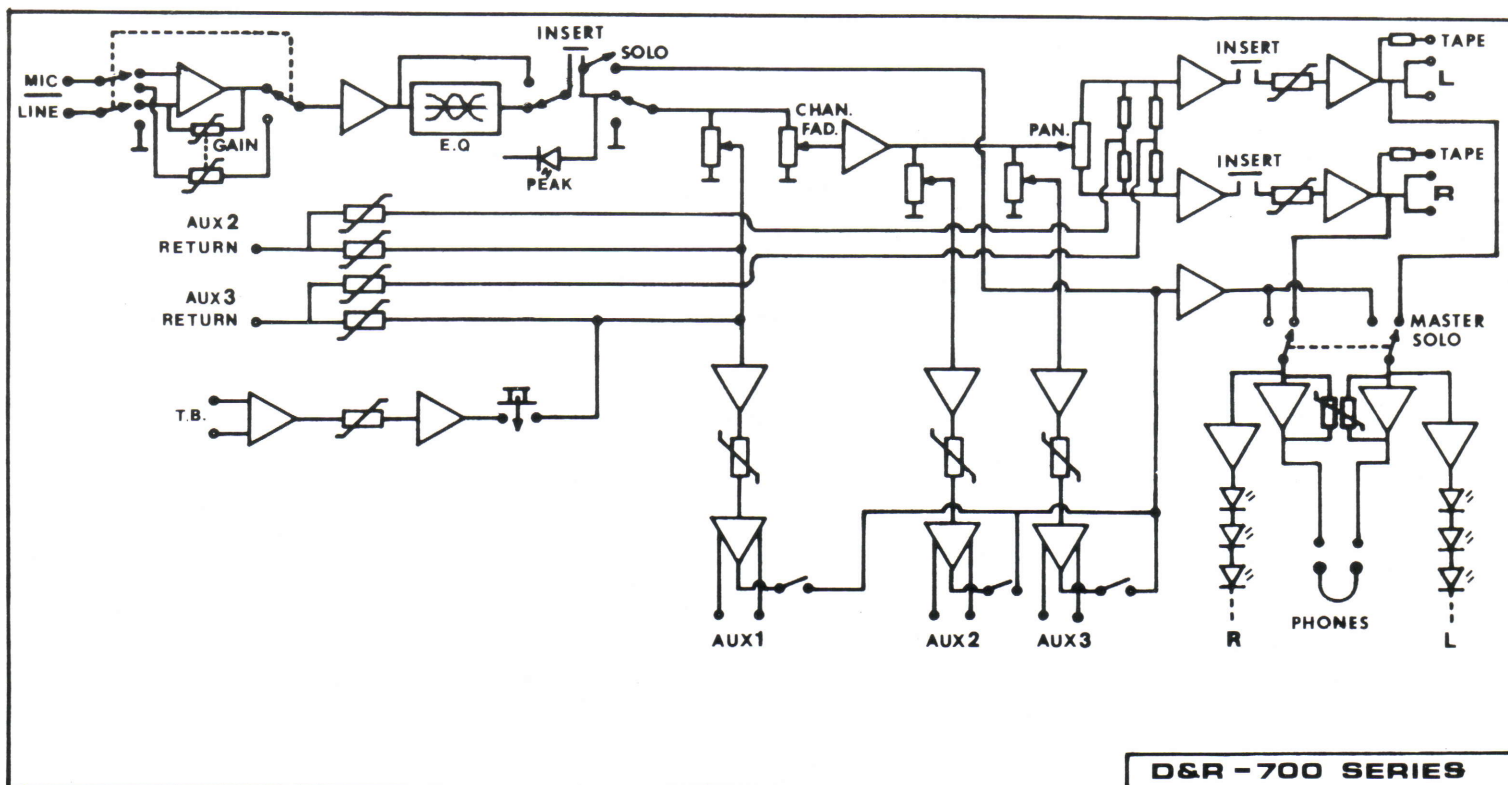
OVERALL

total harmonic distortion typically 0.01 % or less at any level
fader attenuation greater than 78 dB
max gain through desk 74 dB
after the channel fader is 10 dB of gain available

Dimensions

700-6 560 x 590 x 90 mm
700-12 840 x 590 x 90 mm
700-18 1115 x 590 x 90 mm
700-24 1390 x 590 x 90 mm

BLOCK DIAGRAM



D&R - 700 SERIES

We reserve the right to modify or change designs without prior notice.