

# D&R SERIES 300 MARK II



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## GENERAL INFORMATION

The 300 series are the latest development in mixing-desk design from D&R. It was designed to supply the increased demand for a 19 inch rack mounting desk. The 300 series has basically 8 mono inputs with balanced mic inputs. Stereo channels are available as an optional extra with R.I.A.A. correction and stereo line inputs.

Our long experience, we have been more than 14 years in the business, is your guarantee that you buy a mixing desk with very high specifications. We know how to maintain the superb performance of the now-days integrated circuits. They can be easily ruined by bad printed circuitboard lay-outs with subsequent over-compensation, resulting in transient distortion. Our electronics are absolutely stable and our desks would have a linear frequency response of more than 500 kHz if they were not passively compensated. Because of the excellent printed circuitboard lay-out and design, crosstalk and distortion are so low that they are insignificant.

Active compensation is employed around integrated circuits only to cope with ringing and overshoot. This is the only way to assure you of a superb transparency in your recordings. The bandwidth in our consoles is limited only through passive filtering. If the configuration of even one integrated circuit in your console is not properly designed it will degrade the sound. This extremely important aspect will not show up in the specifications. If an integrated circuit has a slew rate of 13 Volt per usec does not necessarily say that your console has it. Proper transient handling is one of the most important things in a desk. Our desks can handle any transient.

## Other features

The 300 series is especially designed for high-quality stereo recording in Audio & Video productions and can also be used in a discotheque as well as stereo broadcasting.

The input channel features are:

An electronically balanced XLR microphone input and a separate balanced line input for line-level signals. A dual gain control with a smooth range adjusts both the mic and line signals. Switchable phantom powering of 48 Volt is standard. The ideal combination of integrated circuits and discrete transistors assures you of a very low noise level of -126.5 dBu in your mic amps. The equalizer is of our well proven design with on/off switching. Of the two Aux sends 1 is prefader wired and Aux 2 postfader wired. Internal links can change this. The Panpot pans the signal between the outputs. The peak led turns on when the signal reaches +18 dBu, this is 4 dB below clipping. A high quality carbon track fader completes the channel. Another important feature of the channels are the insertion points to connect ancillary equipment to the desk. In the case of stereo channels, insertion points are not provided. The pfl button in conjunction with the master pfl/afl switch gives you prefader listening in the channels together with visual indication of the present level on the led bargraphs.

## Master section

The master section consists of 4 main outputs, the left / right outputs and the Aux 1 / 2 outputs. Furthermore there is a talkback circuit which gives its signal into the Aux 1 master. There is a stereo Aux 2 return which has separate left & right controls for mixing into the left / right master busses and a single control for mixing into the Aux 1 buss. The monitoring section with associated controls such as master pfl/afl switch and Aux 1 / 2 afl switches has also a stereo tape return switch.

The outputs are all on jack sockets. Besides the left & right outputs there is a mono output. 13 Segments led-bargraphs provide excellent metering.

## Cosmetics

The desk itself is made out of grey aluminium with unerasable lettering. It has an all metal housing which gives excellent screening against R-F interference. The desk can be housed in a 19" rack if desired and occupies the space of 9 E. units of 44.45 mm.

We are sure if you decide to purchase this console you will never be disappointed. You get a one year warranty on all parts and labour. In the rare event that something should occur despite double testing and 24-hours burn-in we will help you within 24 hours, sometimes you can wait for a repair.

## Options

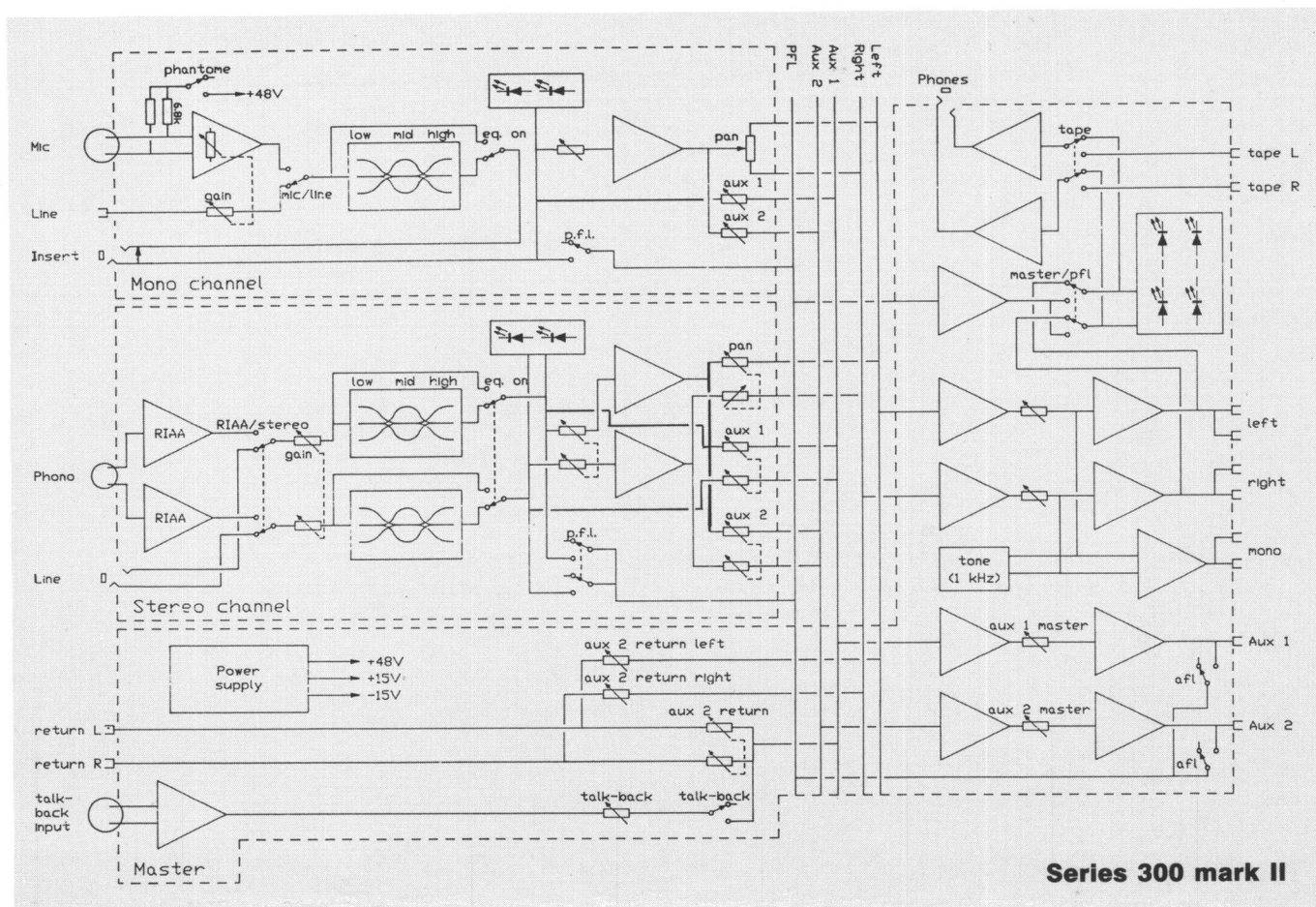
Stereo R.I.A.A. channels.  
Conductive plastic faders.  
A.L.P.S. luxe faders.

## Specifications:

Inputs	: Mic inputs balanced 2 kOhm by way of female XLR CMR at 50 Hz - 70 dB. Line input: balanced 10 kOhm Insert: 0 dBu level 100 Ohm/10 kOhm impedance by way of stereo breakjack. Min/max mic input sensitivity: -70 dBu to -30 dBu for 0 dBu out. Min/max line input sensitivity: -20 dBu to infinity. Aux returns: -20 dBu at 10 kOhm Tape returns: 0 dBu at 10 kOhm.
Outputs	: Left/right/mono/Aux 1/2 0 dBu at 100 Ohm. (only left/right is balanced)
Options	: Stereo R.I.A.A. channels Fader start switches
Noise	: Mic input at max gain: -126.5 dBu 20 - 20.000 Hz. Output noise master faders down: -92 dBu. Output noise master faders up: -80 dBu.
Freq. response	: 20 - 20.000 Hz $\pm 0.025$ dB at 80.000 Hz -3 dB
Equalization	: $\pm 18$ dB at 15.000 Hz shelf ( $\pm 16$ dB at 10 kHz) $\pm 12$ dB at 1.000 Hz bell $\pm 18$ dB at 50 Hz shelf ( $\pm 16$ dB at 70 Hz)
Overall	: Total harmonic distortion less than 0.039%. Max gain through desk 80 dB incl. postfader gain of 10 dB.
Dimensions	: 483 x 95 mm x 400 mm



## Block diagram



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



*Masters of Mixing*



D & R Electronica b.v., Rijnkade 15B, 1382 GS Weesp, telefoon 02940 - 1 80 14, Tlx 18503 dr nl

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