



DR66 is a slimline 1U digital installation mixer with internal gates, compressors, limiters and EQ.

Once set up via a PC running Allen & Heath's WinDR software, DR66 is a powerful standalone zoning and signal processing solution for clubs, bars, conference suites and any number of other facilities. The functions of the unit's simple front-panel controls are set by the installer, who can also configure password protection to further secure the system. In effect, the systems designer's expertise is stored in the unit, allowing the user to flawlessly transform the audio system at the push of a button. DR66 is an elegant alternative to racks full of analogue equipment - without the extra cost and complexity of many other digital systems.

■ 6 analogue inputs (2 mic/line, 4 line)	■ 20 bit A/D and 20 bit D/A conversion	■ Battery backup connection
■ 6 balanced outputs	■ Standalone or online operation	■ Control lockout facility
■ 8 configurable front-panel function keys	■ Ducking, gates, limiter, parametric EQs, graphic EQ, compressors	■ DSPx Expander option
■ 36-point crosspoint matrix		■ DSPd Delay option
■ Digital processing architecture	■ SysNet option allows remote control via RS232	■ Compact 1U rack mount enclosure
■ WinDR System Manager configuration software	■ Signal metering as standard	■ Designed to BS5839 installation standards

DR66 ARCHITECTS SPECIFICATION

The unit shall be a digital mix processor with 6 analogue inputs and 6 analogue outputs. The unit shall have a full crosspoint matrix, comprising 36 points, allowing any input, or combination of inputs, to be routed to any output or combination of outputs. All crosspoints shall have a variable level. The 2 mic/line inputs and 6 line level outputs shall be on balanced XLRs with level trims. The 4 stereo line inputs shall sum to mono and be on RCA phono connectors with level trims. Comprehensive ducking capability shall be provided.

The mic/line inputs shall have internal jumpers for pad and phantom power selection. The mic/line gain range shall be 6dB to 55dB with input impedance of 2k ohms (no pad) or 10kohms (pad). The phono input gain sensitivity shall be internally link-adjustable from -10dBv to +4dBu with an impedance of 10k ohms. The inputs shall be converted using a 20 bit analogue-to-digital converter.

The XLR outputs shall have a link-selectable sensitivity from -10dBV to +4dBu with an output impedance of 50 ohms. The conversion shall be by a 20 bit digital-to-analogue converter.

The unit shall be configured over a standard RS232 port using a proprietary 32-bit Windows™ based software application with a Graphical User Interface. Configurations shall be editable both on and off-line. The configuration shall determine the allocation of internal signal processing resources to input and output channels, as well as routing, levels and channel names. After configuration, the unit shall run standalone, without an external computer. Signal processing resources available shall include compressors, gates, limiters, graphic equalisers, parametric equalisers and crossovers. An optional expander card shall provide the facility for additional signal processing resources or supplementary delay resources. The unit shall use Flash memory to permit firmware upgrades via the RS232 port. An internal real-time clock shall allow scheduling of timed events.

The unit shall be compatible with BS5839 installation requirements. The hybrid switched/linear power supply shall allow emergency operation with a single 24V external battery and the unit shall interface with alarm systems. The total power consumption shall be no more than 20VA and the permissible incoming mains voltage range shall be configurable to 100, 120, 220 or 230 VAC.

The front panel shall feature 8 installer-definable function keys for user control of volume levels and patches. There shall also be a backlit LCD for indication of setup menus, peak conditions, patch status and channel levels. Important system parameters, such as Patch Naming, Channel Naming, Limiter control, Ducking control, Phase reversal, Routing assignments, Date/Time, LCD contrast and Soft Key definitions shall be password-protected from user adjustment.

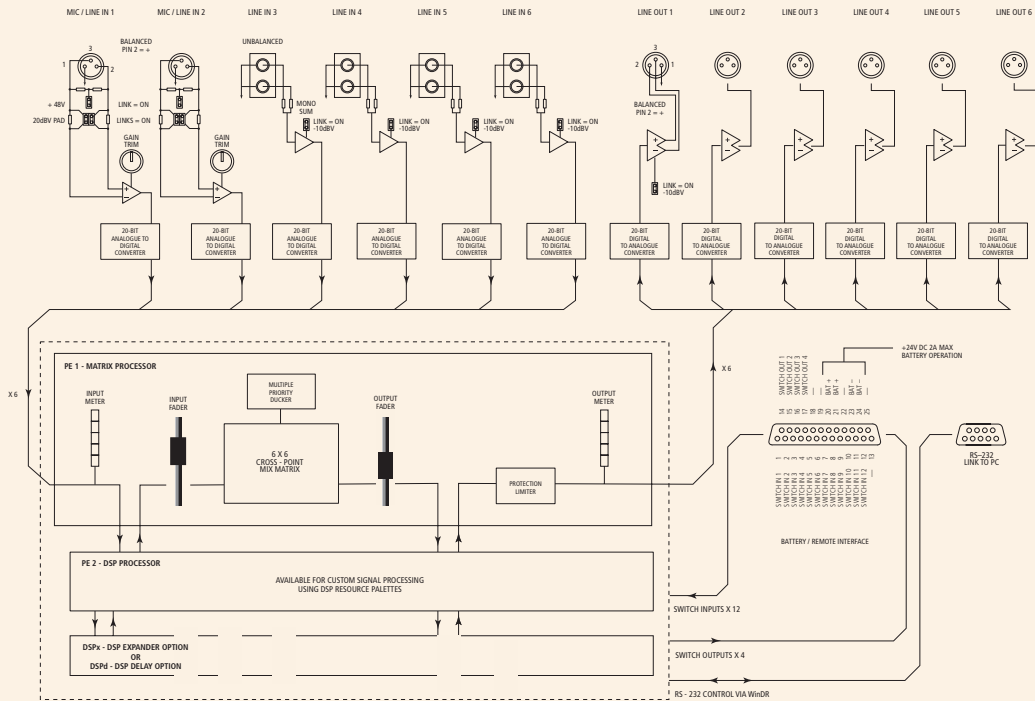
Facilities for remote control of unit parameters shall be provided.

The unit shall weigh no more than 7kg in a 1U rack-mount chassis. The chassis shall be constructed from zintec steel and feature a removable top for configuration of internal jumpers and presets.

The unit shall be the Allen & Heath DR66 digital mix processor.



DR66 BLOCK DIAGRAM



DR66 SPECIFICATIONS

OdBu = 0.775 Volts RMS		OdBV = 1 Volt RMS		OdBfs = 16dBn on +4 setting	
Inputs	Outputs	Connector	Impedance	Gain	
Mic In	x2 XLR	pin2+,3- pad selected	balanced 2k ohm	variable 12 to 55dB	
Line In	x4 Dual RCA		10k ohm	variable -10 to 33dB	
Output	x6 XLR	pin2+,3-	Phono A&B mono-summed 50 ohm	Link Selectable -8dBu to +4dBu	
RS-232	x1 9 way D Female	57.6kbaud			
Remote switch	x1 25 way D Female				
	Switch Inputs X12	opto-isolated to 2.5kV			
	Switch Outputs X4	@10mA opto-isolated to 2.5kV			
DC Power Backup	+24V (+/-15%) @ 1A				

Internal Headroom	+12dBu
Maximum Output Level	+16dBu into 600 ohms
Frequency Response	+/-1dB 20Hz to 20kHz
Distortion	THD better than 0.004% @ 1kHz
Crosstalk	Interchannel > -80dB at 1kHz
Noise 22Hz - 22kHz	Mic Ein -128dB (150 ohms source) Line preamp at 0dB gain -90dBu Mix noise (all routed) > -80dBu
Max Dynamic Range	92dBu
Panel Meters	2 colour: Red: Peak -6dB dBFS Green: Signal -42dB dBFS

Phantom Power	+18V, internal jumper links
Power Requirements	50/60Hz 25W max Mains voltage set for local requirements
Power Supply	Internal regulated hybrid Switch Mode/Linear
Power Consumption	25VA Max
AC power requirements	Factory wired for 100, 120, 220, 230V AC, 50/60Hz mains input Fuse T315mA (220V - 240V AC) T630mA (100 - 120V AC)

DC Power Backup	External DC Power Supply Input Nominal +24V DC (+/- 15%) Fuse 2A (internal)
Dimensions	486 x 380 x 41 mm
Unpacked Weight	6.5kg
Packed Weight	7kg
ADC	20-bit Fs x 64
DAC	20-bit Fs x 128
Processing	2 x Motorola 56002 24-bit fixed point
Sampling Frequency	48kHz

CE The DR66 complies with the European Directives for Electromagnetic Compatibility 89/336/EEC & 92/31/EEC



H A Harman International Company