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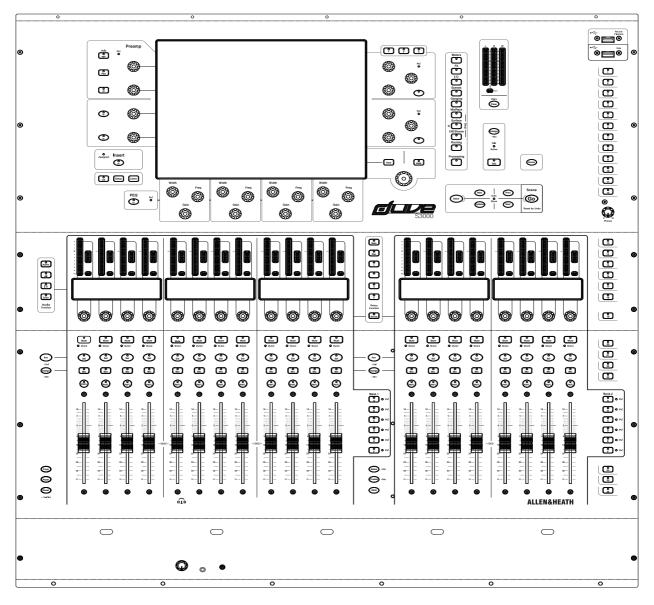


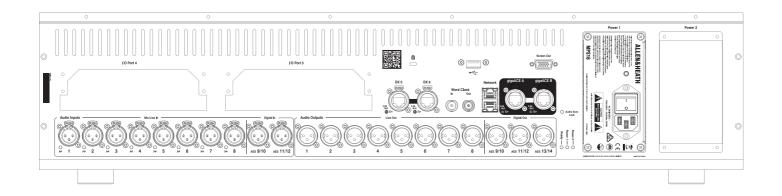
S3000 Technical Datasheet

Overview

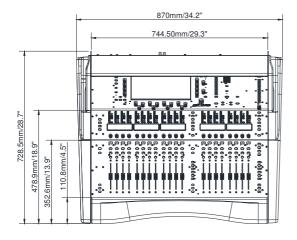
- 20 faders, 6 layers
- Fully assignable layout up to 120 fader strips
- Harmony UI integrates screen and wrap-around controls
 - 12" capacitive touchscreen
 - Gesture control pinch, swipe, drag 'n drop
 - Dedicated multi-mode EQ view
 - Configurable widget areas for Scenes, meters, FX and more
 - 3 pages of 6 assignable rotaries
- 26 assignable SoftKeys
- Engineer's Wedge and IEM fader strips
- Comprehensive multipoint metering

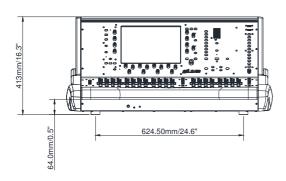
- Daylight visibility
- USB stereo recording and playback
- 8 XLR mic/line in, 8 XLR line out
- 2 digital st AES3 in, 3 digital st AES3 out
- Connection hub
 - Dual redundant GigaACE gigabit link to MixRack
 - 1x redundant DX link for I/O expansion
 - o 2x I/O Ports 128 ch 96 kHz each
 - 2x Network ports
 - o Wordclock BNC I/O
 - Video output
- Dual redundant, hot swappable power supply

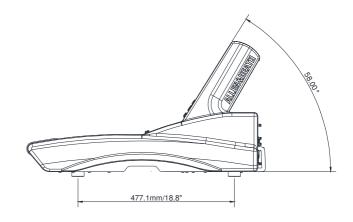




Dimensions







A&E Specifications

The control surface shall have 20 moving faders in two banks, each with 6 layers accessed by dedicated keys. All fader strips shall be configurable as input channels, mixes, FX sends, FX returns, DCA masters, or MIDI strips. Each fader strip shall have a dedicated PAFL, Mix, Select, and Mute button with indicators, 22-segment multi-point meter, 6-segment gain reduction meter, rotary encoder, and coloured LCD display with name, mode, status, and level indicating. 7 buttons with indicators shall provide global mode for the rotary controls being Gain, Pan, Sends and up to 4 custom functions. Send levels to mixes shall be adjustable using the faders.

A 12" capacitive touchscreen shall be provided for access to channel processing, meters, FX, I/O, scene management,

setup, utilities and diagnostics. Physical, dedicated controls shall be provided for adjustment of gain, HPF/LPF filters, and 4-band PEQ. Further physical controls shall be user assignable, including 6 rotary encoders arranged over 3 layers, and 26 user-defined keys. Dedicated keys shall be provided for quick Copy/Paste/Reset of mixes and processing parameters, pre/post and mix assignments, scene safes, GEQ fader flip, PAFL clear, scene automation, talkback, and access to libraries.

22-segment meters shall indicate the 3 Main mix levels, the PAFL signal shall override the LR meters accompanied by a PAFL-active indicator. 1/4" and 3.5mm jacks for the surface PAFL headphones output shall be provided, plus an analogue

output level control. The mixer shall include a 2-track record and playback system for optional USB drives. The surface shall have 2 USB ports on the front, one of which dedicated to record / playback, and a further USB port on the back panel.

The surface shall provide 8 XLR inputs of high quality and capable of handling microphone or line signals, with remote controlled analogue gain adjustable in 1dB steps, a 20 dB PAD, and phantom power. It shall also provide 8 XLR line outputs, 2 AES-3 stereo XLR inputs with SRC, and 3 AES-3 stereo XLR outputs with SRC. There shall be an option to bypass the Sample Rate Conversion on the digital inputs or outputs.

Two 128-channel I/O ports for optional digital interface modules shall also be provided. Optional interface modules shall include: MADI, EtherSound, Dante, Waves SoundGrid, and ACE.

A pair of Ethercon ports shall be provided for redundant connection to the rack engine via the Allen & Heath gigaACE protocol. This connection shall carry over 300x300 channels of uncompressed audio at 96kHz, control data and tunnelling of third party Ethernet traffic. 2 Ethercon ports shall be provided for I/O expansion via a redundant audio connection carrying up to 32x32 channels of uncompressed audio at 96kHz. A range of

optional expansion racks shall be provided and shall include a modular rack with 8-channel card options including analogue or digital I/O.

A pair of BNC connectors shall be provided on the unit for Wordclock input and output. A pair of RJ45 sockets shall also be provided for gigabit Ethernet network connections to laptops or other control systems.

The unit shall have a modular power supply accepting AC mains voltages of 100~240V, 50/60 Hz, 300W max via an earthed 3-pin IEC male connector. A rocker switch shall be provided near the mains inlet to isolate the unit from the incoming mains supply. The unit shall also provide the option for a second, hot-swappable, redundant power supply. This shall be of the same type and interchangeable with the power supply fitted as standard.

An option shall be provided for password protection for log-in of several users with different levels of system access and permissions.

The control surface shall be the Allen&Heath dLive S3000.

Technical Specifications

Inputs		System	
Mic/Line XLR Inputs	Balanced XLR, +48V phantom power	Measured balanced XLR in to XLR out, 20-20kHz, minimum Gain, Pad out	
Mic/Line Preamp	Fully recallable	Dynamic Range	110dB
Input Sensitivity	-60 to +15dBu	System Signal to Noise	-92dB
Analogue Gain	+5 to +60dB, 1dB steps	Frequency Response	20Hz - 30kHz +0/-0.8dB
Pad	-20dB Active PAD	THD+N (analogue in to out)	0.0015% @ +16dBu output, 1kHz 0dB gain
Maximum Input Level	+30dBu (PAD in)	Headroom	+18dB
Input Impedance	$>4k\Omega$ (Pad out), $>10k\Omega$ (Pad in)	Internal operating Level	0dBu
Mic EIN	-127dB with 150 Ω source	dBFS Alignment	+18dBu = 0dBFS (+22dBu at XLR output)
Phantom Power indication	Per socket, internal or external phantom power sensing, triggered at 24V	Meter Calibration	OdB meter = -18dBFS (+4dBu at XLR out)
Digital Inputs	AES3 2 Ch XLR, 2.5Vpp balanced terminated 110 Ω	Meter Peak indication	-3dBFS (+19dBu at XLR out)
	SRC on each pair, range 32k - 192kHz, with bypass option		
		Sampling Rate	96kHz +/- 20 PPM
Outputs		ADC	24-bit Delta-Sigma
		DAC	24-bit Delta-Sigma
Analogue XLR Outputs	Balanced, Relay protected		
Output Impedance	<75Ω	Latency	<0.6 ms (MixRack XLR in to XLR out, Input to Mix)
Nominal Output	+4dBu = 0dB meter reading		+ 5 samples, Surface to Mixrack (GigaACE hop)
Maximum Output Level	+22dBu		+ 8 samples, DX32 to Mixrack (DX hop)
Residual Output Noise	-92dBu (muted, 20-20kHz)		
	-90dBu (muted, 20-40kHz)	Operating Temperature Range	0 deg C to 35 deg C $$ (32 deg F to 95 deg F)
Digital Outputs	AES3 2 Ch XLR, 2.5Vpp balanced terminated 110 Ω	Mains Power (MPS16)	100-240V AC, 47-63Hz, 300W max
	96kHz sampling rate, switchable to 48kHz, 44.1kHz		
Dimensions and Weights			
	Width x Depth x Height x Weight		Width x Depth x Height x Weight
S3000	870 x 728 x 413 mm (34.3"x 28.7"x 16.3") x 28kg (62lbs)	S3000 - boxed	1045 x 920 x 560 mm (41.1"x 36.2"x 22") x 41kg (90.4lbs)