Air 2000 Broadcast Console

Air 2000 Broadcast Mixing Console

The Air 2000 – a state-of-the-art, fully modular mixing console, engineered to withstand the rigorous demands of professional broadcasters. All component parts have been selected for their long-term reliability. Only the highest quality conductive plastic faders are used to control channel VCAs, providing 50-100 times the life expectancy of conventional carbon track types. Headphone and speaker controls, normally notorious for early failure, employ the same VCA technology for exceptional reliability.

All illumination is achieved by high-brightness LED clusters, eliminating tiresome bulb failures. Large heavy-duty switches rated at 5 MILLION operations are provided for main channel functions.

An off-line record mix enables production to take place simultaneously with the on-air programme and channels may also be selected to a post-fade auxiliary mix for generation of a stereo cleanfeed.

Versatile opto-isolated logic outputs allow connection to almost any logic levels without the necessity of “black box” interfaces. A and B inputs are separately programmable with either steady-state or pulse signals to accommodate for dissimilar machine remote requirements. Provision is made for extensive remote control of channels to allow, for example, a newsreader to play in his/her sources and activate the microphone without the need for a separate mixer.

As well as being designed to the highest electronic standards, great thought has been given to installation requirements and subsequent access. All connections to the Air 2000 are made behind a hinged cover allowing cables and connections to be discreet and to deter tampering. An internal cable tray with cut-outs at both ends and the centre of the frame for cable entry, allows flexible yet tidy cable routing to remote machines and patch panels without expensive modifications to “off-the-shelf” wood work systems.

The Air 2000 is a true studio workhorse designed to last the test of time and backed by our ten-year limited warranty.

Air 2000 Main frame

A wide choice of 6 main frame sizes from 12 to 32 channels and a 12 + 12 split allows mixer configurations to suit virtually any requirements. Each frame includes an output/on-air module, a control room monitor module, three PPM or VU meters, machine and mic timers. Additional meters may be added to larger frame sizes at time of purchase or easily user-fitted later, as may a second dual timer for use with the off-line record mix. An optional 8 way or 12 way module width script tray can be fitted if required.

One module width blanking panels can be used to reserve space for future upgrades which are possible at any time (includes rear). Modules are double anodised brushed RAF Blue, legends clear anodised.

An Air 2000 3U 19" rack-mounting power supply is required with each configuration.

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2001/2101
Dual Microphone Input

Two separate high-performance mic preamps, each with its own gain preset and switchable phantom power, for differing microphone specifications. Optional three-band EQ is available featuring shelving, high and low frequency and swept mid-range. Loudspeaker muting and on-air lights are separately configurable for the control room and studio.

2002/2102
Dual Stereo Line Input

Two balanced stereo inputs with individual gain presets accommodating a wide range of sources including domestic "semi-pro" equipment without additional level matching interfaces. Three-band EQ is optional. Switchable fader start/stop enables smooth sequencing and all remote switching signals are steered through the A/B input selector switch to the active source. Versatile routing can direct the left or right channel to the stereo output or create a mono mix of the stereo input.

2003
Telephone Input

Two telco modules may be fitted to allow for conference calls. A hold facility is provided to enable remote relay switching between the telephone handset and the TBU. Calls may be diverted to the record bus for off-line production without interruption to on-air operation. A hands-free "talk-to-caller" facility is available during cue. A TBU must be installed for each telco module. (Contact Alice for suitable units).

2004
Outside Source Channel

The 2004 Outside Source Channel adds support for remote sources using modern wide bandwidth links. One channel can accommodate four such sources and provide each with a stereo, full bandwidth cue feed. Cue feeds can be individually assigned to receive programme (desk output) or a cleanfeed (desk output with the outside source material removed). The internal electronic mix-minus stage offers high rejection across the full audio band. Two talkback circuits allow communication with all sources whether selected or not. An auxiliary stereo input can optionally be mixed into the cue feed, enabling the use of tone diallers and other signalling equipment.

2005
Studio Monitor

For use with an adjacent talks studio or booth, this optional module duplicates the sources available for control room monitoring. Talkback may be routed to either or both headphone outputs and is automatically fed to the speakers except when microphones are live.

2006 Output/On-Air Module
(supplied as standard with mainframe)

Large illuminated push-buttons allow the Air 2000 to be routed to air on an offer/accept basis via an Alice Airswitch Studio Output Selector. Delay and Dump switches are provided for use with external profanity-delay equipment plus five user-definable illumination momentary switches for accept, reset or alarm functions.

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2007 Control Room Module
(supplied as standard with mainframe)

Allows the monitoring of AIR, PROGRAMME, OFF-LINE RECORD and AUXILIARY mixes plus five external sources such as tape returns or other studios. Meters may be switched to follow the monitors or any of the internal mixes. PFL/CUE is available to the operator's headphones and may also be selected to speaker. Cue may be split allowing it to be heard on one side while retaining dimmed monitoring on the other, or full stereo. Guest headphones, which are not interrupted by cue, have their own independent level control.

2008
Input Selector 8 Way

Two banks of switches each select one stereo signal from the same eight sources. Ideal as a pre-selector for several remote/outside broadcast sources, cross-fading between sources is possible when each switchbank feeds a separate stereo input module.

2009
Tape Remote Module

Up to three tape machines may be remotely operated via this module with switch illumination reflecting machine status.

2010
Talkback Module

This module links the Air 2000 to an Alice TLK-10 talkback system for instant communication between studios, newsrooms and other areas. Ten push-to-talk buttons allow selection of individual destinations as well as a "talk-to-all" facility. Return talkback can be selected to appear on the control room monitor in a manner similar to PFL/CUE, removing the need for a dedicated talkback speaker.

Specifications (typical)

Total Harmonic Distortion
Line input to any output at unity gain:

	1kHz:	10kHz:
	<0.015%	<0.025%

Crosstalk

	1kHz:	10kHz:
Inter-channel:	>–105dB	>–94dB
Left-right:	>–78dB	>–70dB
Channel muting:	>–105dB	>–95dB

Noise
30Hz to 15kHz RMS
Mic input EIN (150 ohms source): –131.3dBu
Stereo input (unity gain): –100dB (ref. +8dBu)
Mix bus residual noise: –110dB (ref. +8dBu)

Dynamic Range
Line input to line output: >120dB

Frequency Response
Any input to any output (600 ohms load)
20Hz to 20kHz: +0dB – 0.3dB

Input and Output Impedances

Mic input:	3k ohms balanced
Line inputs:	20k ohms balanced
Insert sends:	0 ohms balanced
Insert returns:	20k ohms balanced
Main outputs:	0 ohms balanced
Monitor amp outputs:	0 ohms unbalanced

Maximum Output Capability

Main outputs and inserts:	+28dBu into 5k ohms
	+24dBu into 600 ohms
Monitor amp outputs:	+22dBu into 5k ohms
Headphone outputs:	+20dBu into 400 ohms

Common-mode Rejection

Mic input at maximum gain:	–90dB at 10kHz
Line input at unity gain:	–60dB at 10kHz

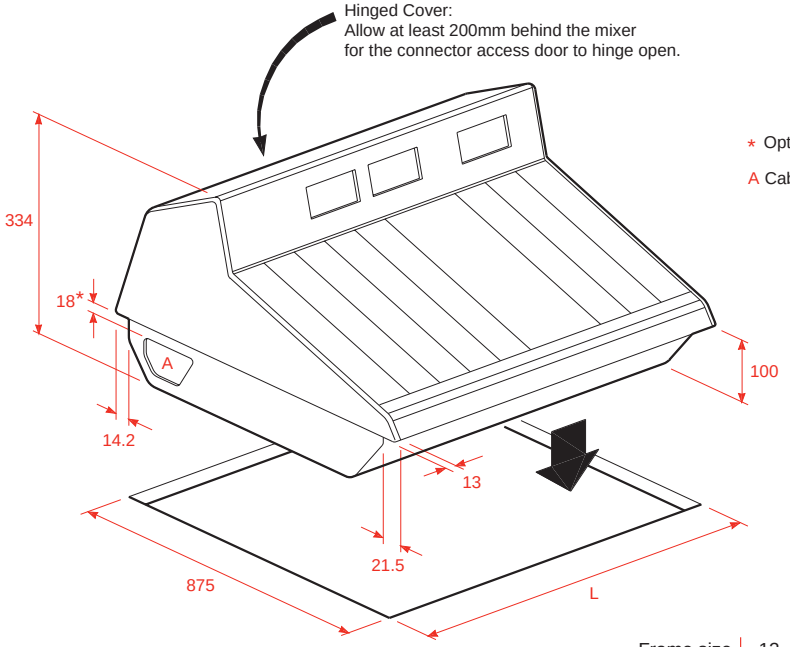
Environmental Conditions

Temperature:	5°C to 35°C
Humidity (non-condensing):	20% to 85%

(0dBu = 0.775V RMS)

Power Requirements

Mains supply:	230 V AC 200VA max
(115V available to order)	



* Optimum thickness for woodwork top is 18mm.

A Cable access (left, right and central)

Frame size	12	16	20	24	28	32
Length L	497	659	822	984	1147	1310

All dimensions in mm.