

OXYGEN 3

BROADCAST MIXING CONSOLE



ANALOGUE MODULAR STRUCTURE

- Very competitive price
- Wide range of functions in small dimensions
- 2 built-in telephone hybrids
- 9 stereo inputs
- 3 micro inputs
- Very easy to operate

OXYGEN 3

OXYGEN 3 is a compact audio console for “on-air” and production in the broadcast radio field.

It is very simple to use and provides maximum operating flexibility.

The **OXYGEN 3** console is a complete and self contained piece of hardware, requiring no additional equipment to operate.

All relevant functions are built-in, such as 2 telephone hybrids with meeting capabilities, On Air lamp control, Monitor loudspeaker cut-off and Talk-Over facility.

The console features 3 micro inputs and 9 stereo inputs (1 of which configured by default for Phono sources).



Oxygen3

OVERVIEW:

OXYGEN 3 console is available in two versions: with or without EQ controls on Input channels (respectively called **OXYGEN 3** and **OXYGEN 3 ST**).

Each console has always two balanced outputs plus a number of unbalanced outputs provided on Pin RCA connectors.

Furthermore, while the **OXYGEN 3** features unbalanced LINE inputs (PinRca connectors), the **OXYGEN 3 ST** features electronically balanced LINE inputs on Jack 1/4" female connectors.

The frame is inox steel & aluminium made, with wood finishing touch available as an option.

Electronic components have been selected from the best on the market. In particular, the parts mostly subject to tear and wear (such as switchers, faders and potentiometers) are by Alps.

Two large LED meters with peak memory allow a constant and fine control of Master and Monitor signals.

The external switching power supply, operating between 90 and 260 Vac, assures maximum reliability and a world-wide use.



OXYGEN 3 WITHOUT WOOD FINISHING

OXYGEN 3 AND OXYGEN 3 ST FEATURES

(1) Balanced MICRO input.

The Channel 1 may be regarded as a 'priority' channel: the Post-EQ (and pre-fader) Micro signal is always internally routed to the TalkBack circuitry and to the Telephone channels for 'private' (off-air communications with the callers). The Post Fader, Master bus output is also routed to the TalkOver section for automatic voice/music mix.

The slider opening is also associated with the Monitor output cut-off and with an insulated contact closing for On Air lamp control.

(2) Unbalanced Stereo input for Line sources. Each channel has always two selectable inputs.

(3) Balanced MICRO input.

On request, Channel 2 and 3 can be fitted with facilities for Monitor output cut-off and On Air lamp control associated with the slider opening.

(4) Both the stereo Inputs of Oxygen 3's Channels 4 and 5 are set by default for line level.

On request, Input A on Channel 5 can be set as Phono input at the factory (ref to Phono2 option).

(5) Channel 6 features a Stereo line input and a Phono input.

(6) Each telephone hybrid features double mono outputs for calls recording.

(7) Sockets for telephone line and external telephone set connection.

(8) External call signalling. A photocoupler closes when the phone is ringing.

(9) Balanced Master output section, featuring two stereo outputs with level and balance controls.

XLR external adapter available on request (ref. to ADPT option).

(10) Unbalanced Master output section, featuring one unbalanced, level-controlled Stereo output (Out 3), one unbalanced, fixed level Stereo output and two Mono outputs.

(11) Unbalanced TALKBACK / Master output (switched).

The slider opening on Micro/Line channel 1 is also associated to a photocoupler closing for On Air Lamp control (such as MR. LIGHT by Axel Technology).

On request, this facility may be extended to Micro/Line channels 2 and 3, too (ref. to CUT option).

(12) Stereo line-level output, provided for connection to a power amplifier associated with loudspeakers. It allows monitoring of PFL and MASTER buses and EXTERNAL source.

When microphone1 is live to air, this output will be muted so that there is no acoustic feedback.

On request, this facility may be extended to Micro/Line channels 2 and 3, too (ref. to CUT option).

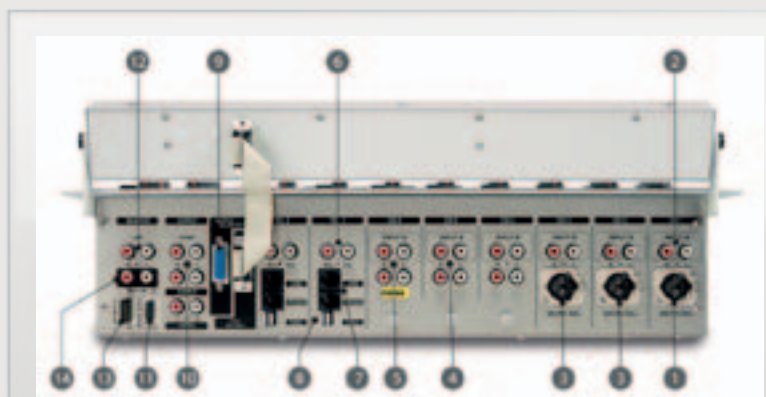
(13) Connection to the external AC adapter (provided).

(14) Unbalanced stereo Input. It is intended to be connected to any external audio source (such as microwave, FM or satellite receivers) to be monitored.

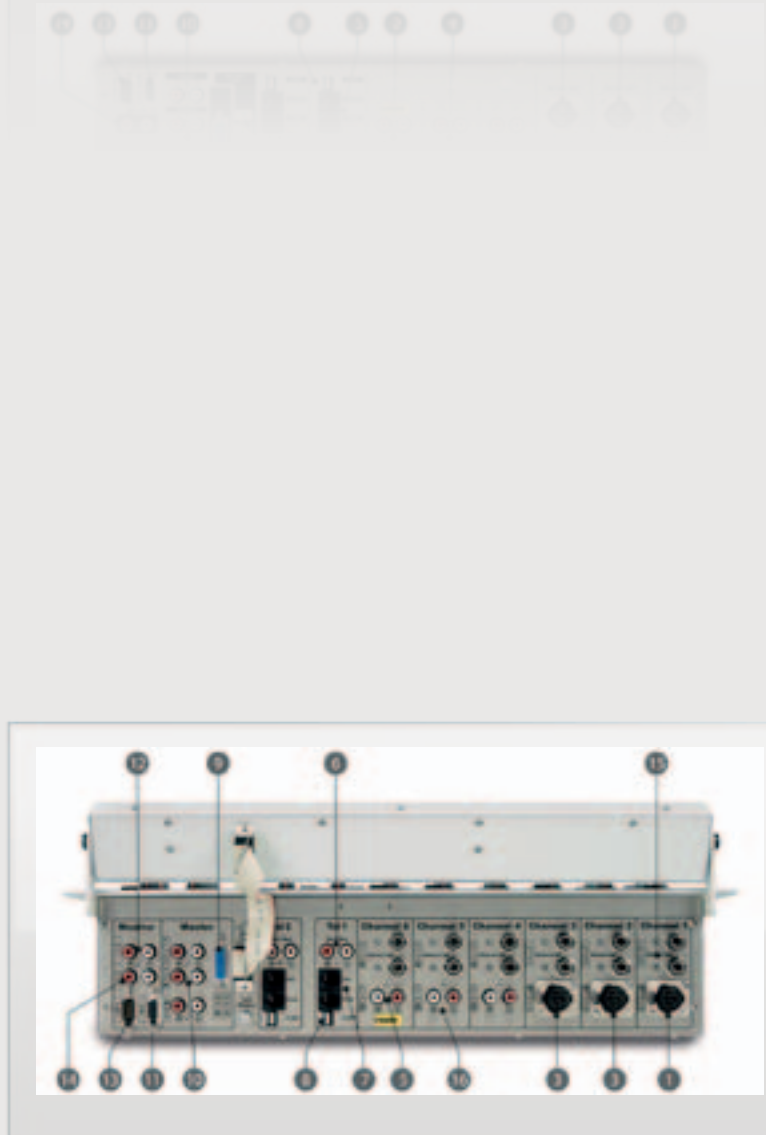
(15) Oxygen 3 ST console features balanced stereo inputs on Jack connector.

Each channel has always two selectable inputs.

(16) Input B on Channel 6 is factory preset for Phono sources. Anyway, Input B configuration on Channels 4, 5 and 6 may be altered via internal jumpers at any time between Phono or Line settings.



OXYGEN 3 REAR



OXYGEN 3 ST REAR

OXYGEN 3 TECHNICAL SPECIFICATIONS

OXYGEN 3

LINE-LINE & LINE PHONO STEREO MODULE

INPUT A	Stereo		PinRCA	
INPUT A levels	0 dBm (LINE – Channels 4 - 5)	Unbal		+/- 12 dB gain ctrl
	Phono (RIAA – Channel 6)	Unbal		+/- 12 dB gain ctrl
INPUT B	Stereo	Unbal	PinRCA	
INPUT B nominal level	0 dBm (LINE)			+/- 12 dB gain ctrl
INPUT A & B impedance	10 kΩ			
MONO / STEREO MODULE				
INPUT A	Mono - 70 dB (MICRO level)	Bal.	XLR	+/- 12 dB gain ctrl
INPUT A impedance	> 1,5 kΩ			
INPUT B	Stereo 0 dBm (LINE)	Unbal	PinRCA	+/- 12 dB gain ctrl
INPUT B impedance	10 kΩ			

OXYGEN 3 ST

LINE-LINE & LINE PHONO STEREO MODULE

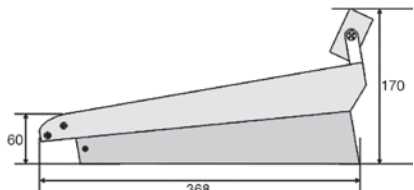
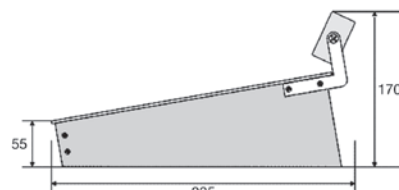
INPUT A	Stereo	Bal	Jack 1/4"	
INPUT A nominal level	0 dBm (LINE)			+/- 12 dB gain ctrl
INPUT B	Stereo		PinRCA	
INPUT B levels	0 dBm (LINE – Channels 4 - 5)	Unbal		+/- 12 dB gain ctrl
	Phono (RIAA – Channel 6)	Unbal		+/- 12 dB gain ctrl
INPUT A & B impedance	10 kΩ			
MONO / STEREO MODULE				
INPUT A	Stereo 0 dBm (LINE)	Bal.	Jack 1/4"	+/- 12 dB gain ctrl
INPUT A impedance	10 kΩ			
INPUT B	Mono - 70 dB (MICRO level)	Bal.	XLR	+/- 12 dB gain ctrl
INPUT B impedance	> 1,5 kΩ			

OXYGEN 3 & OXYGEN 3 ST

TELEPHONE MODULE

SEND / RECEIVE separation	20 dB**	** it can vary depending on telephone line characteristics		
In / out level on tel. line	- 6 dBm on 600 line impeded.			
Compensation mode	Electronic / automatic			
Line connection	2 wire, RJ11 connector			
REC Tel output	0 dB level	Unbal	PinRCA	
MASTER MODULE				
MASTER Output 1 & 2	Stereo	El. Bal.	SubD 15P	∞ to + 6 dB ctrl
MASTER Output 3 and Fixed	Stereo	Unbal.	PinRCA	∞ to + 6 dB ctrl (Out 3)
MASTER Mono Outputs	Mono	Unbal	PinRCA	0 dBm
Nominal MST Output Level	0 dBu (LINE)			
MST output Impedance	100 Ω			
Noise (DIN Noise)	≤ - 78 dBm			
Crosstalk	< - 65 dB @ 10 kHz			
THD+N	< - 70.5 dB @ 1 kHz			
MONITOR MODULE				
TUNER IN	Stereo Line	Unbal	PinRCA	∞ to + 6 dB gain ctrl
MONITOR Output	Spk (Stereo Line)	Unbal.	PinRCA	∞ to + 6 dBm gain ctrl
	Phones	Unbal.	Jack 1/4"	∞ to +12 dBm gain ctrl
TALKBACK Output	Stereo Line	Unbal.	SubD 9p	
GENERAL				
AC VOLTAGE	90 / 260V (50 – 60 Hz) - switching power supply			
POWER CONSUMPTION	20 W			
WEIGHT	Around 5 Kg			

DIMENSIONS

CONSOLE Oxygen 3 / 3 ST with wood finish touch	OVERALL WIDTH 495 mm	CONSOLE Oxygen 3 / 3 ST without wood finish touch	OVERALL WIDTH 483mm
			

OXYGEN 3 ORDERING INFORMATION

Code	Article	Description
A103030390	OX3-WOOD	Wood frame for Oxygen 3
A103030320	OX3-NCUT	Alp Slider N 90° series with switch for monitor loudspeaker cut (off for Micro channel 2 or 3) with knob
A103030341	OX3-KSL	Alp Slider K series with knob
A103030321	OX3-KCUT	Alp Slider K series with switch for monitor loudspeaker cut (off for Micro channel 2 or 3) with knob
A103030300	OX3-ADPT	Sub D / 4 XLR adapter for master balanced outputs

Pictures and technical specs in this leaflet are provided for information purpose only and are subject to change without further notification (Ver. 2.1)