

OXYGEN 4

BROADCAST MIXING CONSOLE



ANALOGUE MODULAR STRUCTURE

- Competitive price
- Modular structure
- Custom configuration
- Built-in telephone hybrid
- Compact dimensions
- Wide range of functions and facilities

OXYGEN 4

OXYGEN 4 is specially designed On-Air and production console for radio broadcasting, offering an elegant design along with compact dimensions.

The console is fully modular, which means flexibility in the configuration.

The Mono, Stereo, Telco and Telephone input modules can be placed anywhere in the chassis.

Telephone module features a built-in, high quality telephone hybrid and Telco module can be interfaced to any external hybrid.

Mono and Stereo modules feature selectable double inputs and three band tone controls (optional).



OXYGEN 4 FRAME 20

Oxygen4

OVERVIEW:

OXYGEN 4 console is available in three frame sizes: the frame 10, which can contain 10 overall modules, the frame 20 and the frame 30.

A script tray (10 module wide) is fitted for frame 30 version.

The frames are inox steel & aluminium made, with wood finishing touch.

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.

OXYGEN 4's wide range of functions provides the most immediate and complete control of the emission.

All relevant functions are built-in, such as TalkBack two-way communication circuit, the OnAir lamp control, Studio - Control Room speakers cut-off, phantom microphone powering...

OXYGEN 4 features 2 output buses (Master and Sub), 2 recording outputs (assignable Mst/Sub) and a versatile Monitor section.

All input / output audio connections are balanced on 1/4" jacks.

Four Vu / Peak meters come with the equipment.



OXYGEN 4 FRAME 10

METER

- 2 Vu/Peak meter pairs
- 1 pair preset to Master output, 1 user assignable
- High resolution scale: 20 LED for each meter
- Vu/Peak visualization jumper selectable
- Sensibility ranging from - 25 dB to + 5 dB

MONO MODULE

- Micro and mono Line switchable inputs (balanced)
- Insert function on microphone input
- Trimmer for Micro level fine adjustment
- Gain control
- Phantom powersupply
- Three band parametric equalizer (optional)
- Master & Sub output assignment
- PFL function
- Monitor speaker muting control
- 2 relays activation

STEREO MODULE

- Two balanced stereo inputs
- Input B configurable for Line or Phono sources
- Three band equalizer (optional)
- Start / Stop command interface (optional)
- Master e/o Sub output assignment
- PFL function
- Gain Control

TELEPHONE MODULE

- Built-in analog telephone hybrid
- Automatic Line compensation
- Send & Receive level controls
- Trimmer for fine adjustment of Receive level
- Master & Sub output assignment
- Ring LED for incoming calls
- Private/ PFL function for 'off-air' communications
- Hook key for line hooking
- Socket for external telephone set

TELCO MODULE

- Balanced Send output and Receive input
- Send & Receive level controls
- Remote control capabilities of external hybrid (e.g. Bortel and Macrotel series by Axel Technology)
- Master & Sub output assignment
- Ring LED for incoming calls
- Private/ PFL function for 'off-air' communications
- Hook key for line hooking

MASTER-SUB MODULE

- Balanced Master output (Mono/Stereo switchable)
- Balanced Sub output (Mono/Stereo switchable)
- Sub output fader
- PFL function applied to Sub signal
- Sub output assignable to the Master output
- Two balanced Rec outputs (Mst/Sub switchable)
- Rec output independent level controls

MONITOR MODULE

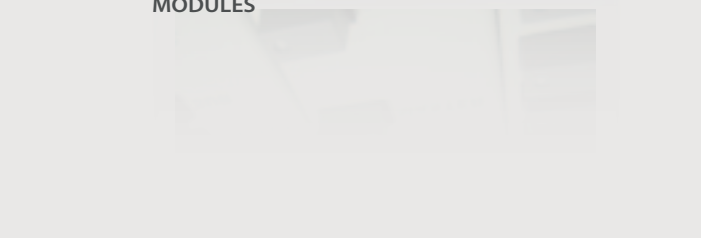
- Studio + Ctrl Room outputs (separated for headph / spk)
- Independent control sections for Studio and Ctrl Room
- Auxiliary balanced Tuner input
- Tuner input level control
- Talk Back to Studio capability
- Built-in Talk Back microphone
- Selectable source for 2nd Meter couple



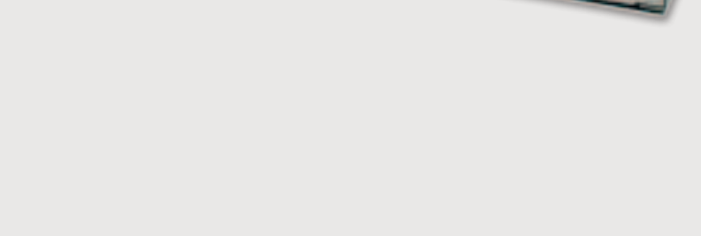
LED METER



MODULES



POWER SUPPLY



OXYGEN 4 TECHNICAL SPECIFICATIONS

STEREO INPUT MODULE

STEREO INPUT MODULE

INPUT A	Stereo	Bal.	Jack 1/4"	
INPUT A nominal level	0 dBm (LINE)			+/- 15 dB gain ctrl
INPUT B	Stereo		Jack 1/4"	
INPUT B levels (jumper select)	0 dBm (LINE) / Phono (RIAA)	Bal. / Unbal		+/- 15 dB gain ctrl
INPUT A / B impedance	10 kΩ			

MONO INPUT MODULE

INPUT A	Mono	Bal.	XLR	
INPUT A adj level range	- 70 dB - 23 dB (MICRO level)			+/- 15 dB gain ctrl
INPUT A insert level	0 dBm	Unbal.	Jack 1/4"	
INPUT A impedance	> 1,5 kΩ			
INPUT B	Mono	Bal.	Jack 1/4"	
INPUT A nominal level	0 dBm (LINE)			+/- 15 dB gain ctrl
INPUT B impedance	10 kΩ			

TELCO INPUT MODULE

SEND Output	Mono	Bal.	Jack 1/4"	
SEND level	0 dBm			+/- 15 dB gain ctrl
RECEIVE Input	Mono	Bal.	Jack 1/4"	
RECEIVE level	0 dBm			+/- 15 dB gain ctrl

TELEPHONE MODULE

SEND / RECEIVE separation	20 dB**	** it can vary depending on telephone line characteristics		
In / out level on tel. line	- 12 dBm on 600 Ω line			
Compensation mode	Electronic / automatic			

MASTER/SUB MODULE

SUB Output	Stereo	Bal.	Jack 1/4"	
Nominal SUB Output Level	0 dBu (LINE)			
Max SUB Output level	+ 20,5 dBm (25 Vpp)			
SUB Output Impedance	50 Ω			
Noise (DIN Audio)	≤ - 89 dBm			
Crosstalk L/R	< - 60 dB @ 1 kHz			
THD+N	< - 0.002 @ 1 kHz			
Frequency response	20 Hz ÷ 20 kHz (- 0.2 dB)			
Stereo		Bal.	Jack 1/4"	
Nominal MST Output Level	0 dBu (LINE)			
Max MST output level	+ 20,5 dBm (25 Vpp)			
MST output Impedance	50 Ω			
Noise (DIN Audio)	≤ - 87 dBm			
Crosstalk L/R	< - 60 dB @ 1 kHz			
THD+N	< - 0.002 @ 1 kHz			
Frequency response	20 Hz ÷ 20 kHz (- 0.5 dB)			
REC1 – REC2 Outputs	Stereo	Bal.	Jack 1/4"	∞ ÷ + 15 dBm

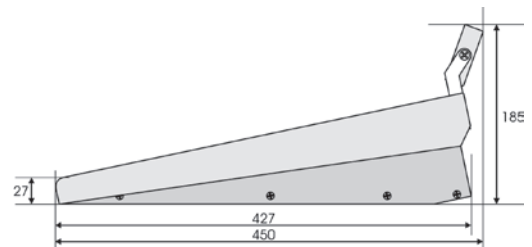
MONITOR OUTPUT MODULE

TUNER IN	Stereo Line	Bal.	Jack 1/4"	-15 ÷ +15 dB gain
STUDIO & CTRL ROOM	Spk - Stereo Line	Unbal.	Jack 1/4"	∞ ÷ +6 dBm
Output	Phones - Stereo Line	Unbal.a	Jack 1/4"	0 ÷ 24 Vpp (20 dBm)

DIMENSIONS

CONSOLE	CONSOLE
10 modules Frame	416 mm
20 modules Frame	840 mm
30 modules Frame (with Script Tray)	1190 mm

Note: All measures are referred to the frame 10 version



OXYGEN 4 ORDERING INFORMATION

Code	Article	Description
A103040340	OX4-KSL	Slider stereo Alps K series with knob
A103040310	OX4-MONO-EQ	Tone section for Mono module
A103040330	OX4-MONO-VCA	Slider K + VCA control for input module (Mono, Telco) with knob
A103040331	OX4-ST-VCA	Slider K + VCA control for stereo input module with knob
A103040320	OX4-ST-START	Latched Start/Stop control from slider for stereo module (no to be added to VCA Options)
A103040350	OX4-ST-SSIR	Momentary, relay-based Start/Stop control from slider for Stereo module (no to be added to VCA Options)
A103040311	OX4-ST-EQ	Tone section for Stereo module (L/L and P/L)
A103040360	OX4-ST-2SSIO	Momentary, opto duplicated Start/Stop control (A,B) from slider for stereo module - (no to be added to VCA Options)

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