

# Oxygen4



## Broadcast Mixing Console

### HIGHLIGHTS

- **COMPETITIVE PRICE**
- **MODULAR STRUCTURE**
- **CUSTOM CONFIGURATION**
- **BUILT-IN TELEPHONE HYBRID**
- **COMPACT DIMENSIONS**
- **WIDE RANGE OF FUNCTIONS AND FACILITIES**

**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** 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

### PUNTI DI FORZA

- **PREZZO COMPETITIVO**
- **STRUTTURA MODULARE**
- **CONFIGURABILE A PIACERE**
- **IBRIDO TELEFONICO INCORPORATO**
- **DIMENSIONI COMPATTE**
- **AMPIA GAMMA DI SERVIZI E FUNZIONI**

Caratterizzata da un'elegante design e da dimensioni contenute, **OXYGEN 4** è una console audio appositamente studiata per applicazioni 'on air' e di produzione radiofonica.

La console è totalmente modulare, il che significa piena flessibilità nella configurazione. I moduli di ingresso Mono, Stereo, Telco e Telefono possono essere installati in qualunque posizione all'interno del frame. Il modulo Telephone incorpora un ibrido telefonico di alta qualità ed il modulo Telco può essere interfacciato a qualunque ibrido esterno. I moduli Mono e Stereo dispongono di doppi ingressi e di controlli di toni a tre bande (opzionali).

**OXYGEN 4** è disponibile in tre differenti frame: il frame 10 (che può contenere complessivamente 10 moduli), il frame 20 ed il frame 30. Un modulo script (con larghezza pari a 10 moduli)



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.

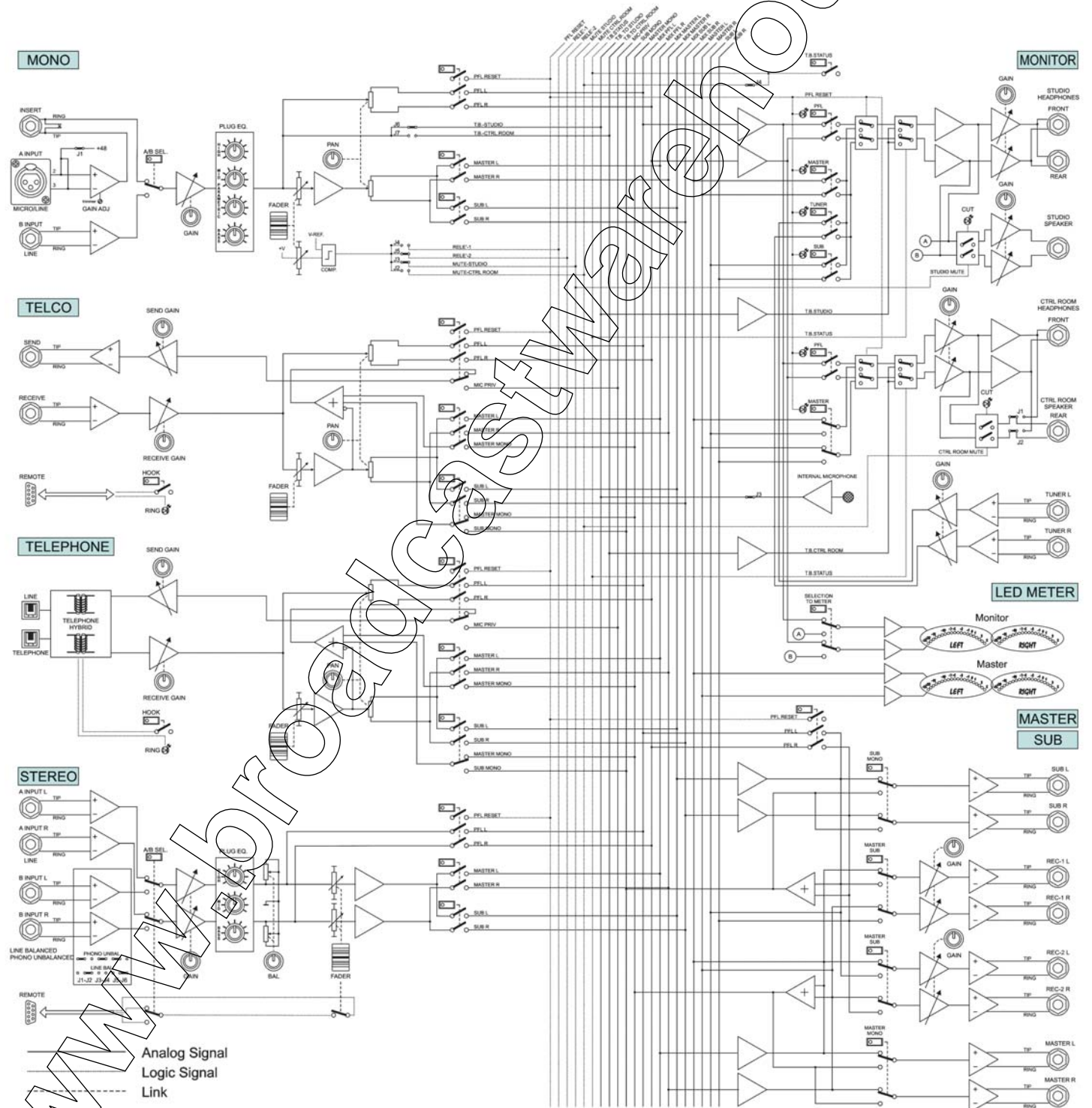
**OXYGEN 4's** wide range of functions provides the most immediate and complete control of the emission. All relevant functions are built-in, such as TalkBack two-way communication circuit, the OnAir lamp control, Studio - Control Room speakers cut-off, phantom microphone powering...

**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.

può essere installato nel frame 30. I frame sono realizzati in acciaio inox e alluminio con finiture in legno. La componentistica elettronica è selezionata tra la migliore disponibile sul mercato. In particolare, le parti soggette a usura (come slider, potenziometri e commutatori) sono di marca Alps.

La gamma delle funzioni è particolarmente completa e consente un controllo totale ed immediato dell'emissione. Tutte le funzione più importanti sono incorporate, come un circuito di TalkBack bidirezionale, il controllo delle lampade On-Air, il muting dei monitor di Studio e Regia, l'alimentazione phantom per i microfoni...

**OXYGEN 4** dispone di due bus di uscita (Master e Sub), di due uscite di registrazione assegnabili (Mst/Sub) e di una completa e versatile sezione di Monitor. Tutte le connessioni audio di ingresso / uscita sono bilanciate su jack 1/4". Quattro i Vu/Peak meter di serie.





### MONO

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



### STEREO

- 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

- 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

- Balanced Send output and Receive input
- Send & Receive level controls
- Remote control capabilities of external hybrid (e.g. Bostel 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

- 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

- 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



### 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

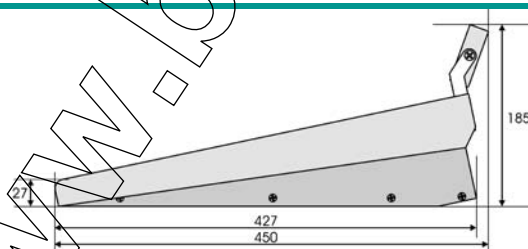


OPTIONS		
Start/Stop remote interface on slider (on Stereo modules)*	<b>START</b>	Interfaccia Start/Stop da slider (per modulo Stereo) **
3 band parametric equalizer for Mono module	<b>MO EQ</b>	Equalizzatore 3 bande param. per modulo Mono
3 band equalizer for Stereo module	<b>ST EQ</b>	Equalizzatore 3 bande per modulo Stereo
Script tray (10 modules wide)	<b>SCRIPT</b>	Modulo Script (larghezza 10 moduli)
ALPS Slider K series + VCA circuit (available for any input module)	<b>VCA</b>	Slider ALPS serie K + circuito VCA (disponibile per tutti i moduli di ingresso)
* not to be added to VCA option		** non abbinabile all'opzione VCA

## TECHNICAL SPECIFICATIONS

<b>STEREO INPUT MODULE</b>	<b>INPUT A</b>	Stereo	Bal.	Jack 1/4"		
	<b>INPUT A nominal level</b>	0 dBm (LINE)			+/- 15 dB gain ctrl	
	<b>INPUT B</b>	Stereo		Jack 1/4"		
	<b>INPUT B levels (jumper select)</b>	0 dBm (LINE) / Phono (RIAA)	Bal. / Unbal			+/- 15 dB gain ctrl
	<b>INPUT A / B impedance</b>	10 k $\Omega$				
<b>MONO INPUT MODULE</b>	<b>INPUT A</b>	Mono	Bal.	XLR		
	<b>INPUT A adj level range</b>	- 70 dB - 23 dB (MICRO level)			+/- 15 dB gain ctrl	
	<b>INPUT A insert level</b>	0 dBm	Unbal.	Jack 1/4"		
	<b>INPUT A impedance</b>	> 1,5 k $\Omega$				
	<b>INPUT B</b>	Mono	Bal.	Jack 1/4"		
	<b>INPUT A nominal level</b>	0 dBm (LINE)				+/- 15 dB gain ctrl
	<b>INPUT B impedance</b>	10 k				
<b>TELCO INPUT MODULE</b>	<b>SEND Output</b>	Mono	Bal.	Jack 1/4"		
	<b>SEND level</b>	0 dBm			+/- 15 dB gain ctrl	
	<b>RECEIVE Input</b>	Mono	Bal.	Jack 1/4"		
	<b>RECEIVE level</b>	0 dBm			+/- 15 dB gain ctrl	
<b>TELEPHONE MODULE</b>	<b>SEND / RECEIVE separation</b>	20 dB**			** it can vary depending on telephone line characteristics	
	<b>In / out level on tel. line</b>	- 12 dBm on 600 $\Omega$ line				
	<b>Compensation mode</b>	Electronic / automatic				
<b>MASTER/SUB MODULE</b>	<b>SUB Output</b>	Stereo	Bal.	Jack 1/4"		
	<b>Nominal SUB Output Level</b>	0 dBu (LINE)				
	<b>Max SUB Output level</b>	+ 20,5 dBm (25 Vpp)				
	<b>SUB Output Impedance</b>	50 $\Omega$				
	<b>Noise (DIN Audio)</b>	$\leq$ - 89 dBm				
	<b>Crosstalk L/R</b>	< - 60 dB @ 1 kHz				
	<b>THD+N</b>	< - 0,002 @ 1 kHz				
	<b>Frequency response</b>	20 Hz - 20 kHz (- 0,2 dB)				
	<b>Stereo</b>		Bal.	Jack 1/4"		
	<b>Nominal MST Output Level</b>	0 dBu (LINE)				
	<b>Max MST output level</b>	+ 20,5 dBm (25 Vpp)				
	<b>MST output Impedance</b>	50 $\Omega$				
	<b>Noise (DIN Audio)</b>	$\leq$ - 87 dBm				
	<b>Crosstalk L/R</b>	< - 60 dB @ 1 kHz				
<b>THD+N</b>	< - 0,002 @ 1 kHz					
<b>Frequency response</b>	20 Hz - 20 kHz (- 0,5 dB)					
<b>REC1 - REC2 Outputs</b>	Stereo	Bal.	Jack 1/4"		$\infty \div + 15$ dBm	
<b>MONITOR OUTPUT MODULE</b>	<b>TUNER IN</b>	Stereo Line	Bal.	Jack 1/4"	-15 $\div$ +15 dB gain	
	<b>STUDIO &amp; CTRL ROOM</b>	Spk - Stereo Line	Unbal.	Jack 1/4"	$\infty \div +6$ dBm	
	<b>Output</b>	Phones - Stereo Line	Unbal.a	Jack 1/4"	0 $\div$ 24 Vpp (20 dBm)	

All measures are referred to the frame 10 version



## DIMENSIONS

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

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