Oxygen 3

Broadcast mixing console

OXYGEN 3 is a compact broadcast audio console for on air and production studios.

Mainly design for medium/small radios (local station, community radios, web radios) OXYGEN 3 combines ease of use, flexibility and robustness.

OXYGEN 3 is a best seller product of AxelTech, leader of its category and installed all over the world in any environmental conditions.

Made of high-quality component easily available everywhere, OXYGEN 3 is the analogue rock-solid console and is a life guaranteed investment.

Main Features

Compact and rock-solid design

3 microphone inputs

9 unbalanced stereo inputs

EQ controls

2 built-in telephone hybrids with

conference (POTS)

Balanced output

LED meter with memory peak (PFL

and Master)

Easy to operate

Overview

The **OXYGEN 3** features 8 channels with A/B input selection, 3 microphone inputs, 9 stereo inputs and 2 built-in telephone hybrids. The console integrates all the specific functions required in any radio studios, such as 2 telephone hybrids with conference capabilities, control of On Air studio lamp, CUT-OFF for loudspeaker and Talk-Over facility.

OXYGEN 3 console provides EQ control on each input

Product Technical Specifications

channels unbalanced inputs and balanced outputs. OXYGEN 3

features unbalanced LINE inputs (PinRca connectors).

The frame is inox steel & aluminium made, with wood

finishing side panels available as an option. Electronic

components have been selected from the best on the market,

switchers, faders and potentiometers are by ALPS. 2 large LED

meters with memory peak fine control of Master and Monitor

signals. The external switching power supply assures

maximum reliability and easy maintenance.

Features

8 channels

OXYGEN 3 has 8 channels, 2 inputs selectable (A/B) for each

channel, top quality long fader 100mm for accurate control of

audio levels, Gain control, EQ control, PFL and PGM buttons.

EQ controls, BASS, MID and HIGH on each channel.

3 Microphone Inputs:

The 1st microphone input is the 'priority' channel and its signal is

always internally routed to:

TalkBack (pre-fader).

Telephone channels for 'private' communications with

the callers, OFF-AIR (pre-fader).

TalkOver section for automatic voice/music mix.

The fader also CUT-OFF the monitor output and controls On Air lamp.

As option, the faders of the mic 2 and mic 3 channels can be configured to

trigger monitor out CUT-OFF and On Air lamp.

9 Stereo Inputs:

9 unbalanced stereo LINE inputs on

RCA connector

2 Telephone Hybrid (POTS)

Telephone lines and Telephone set connector for each line.

Product Technical Specifications

Output for telephone calls recording available for each

telephone line. Notification of incoming calls (phone ringing)

via GPO.

Monitor Section

Unbalanced stereo output for loudspeakers, with CUT-OFF,

for monitoring of PFL, MASTER and EXTERNAL source. 2

headphones output. Talkback output switched between

Master / Talkback (from Mic1).

Master Section

2 balanced Master output with level and balance controls

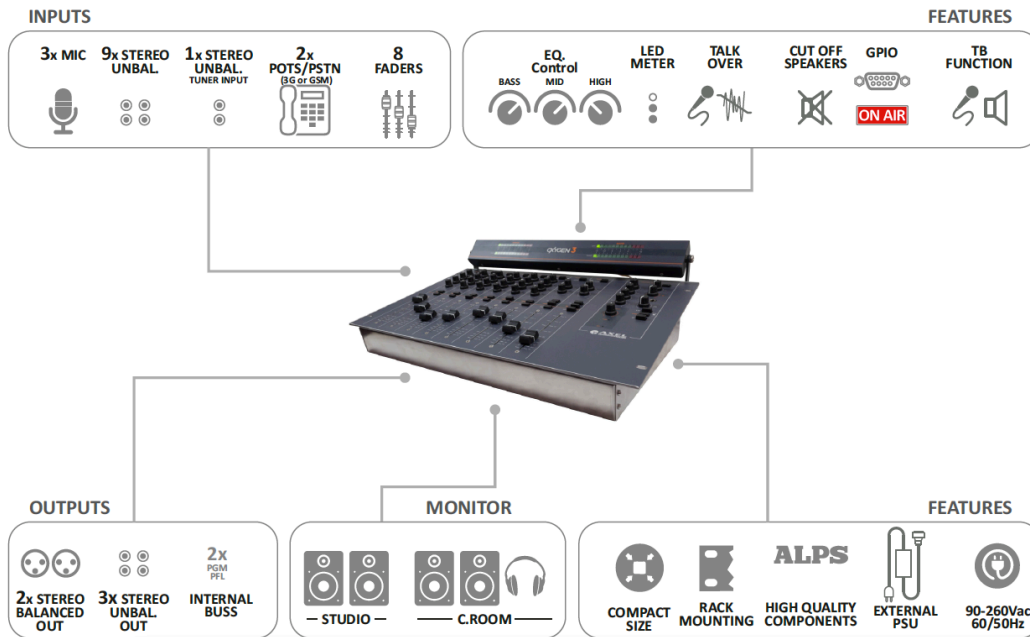**(adapter SUDB15-XLR available as option).**

1 unbalanced Master output with level control (Out 3)

2 unbalanced Master output mono with fixed level. Talkover

function to automatically adjust/attenuate the music level on

master output when presenter talk on mic 1.

Power Supply Unit

External switching PSU 90-260

VAC 50/60Hrz.

Technical Specifications

General

Power Supply	90 / 260V (50 – 60 Hz) - 20 W external switching
WEIGHT	Around 5 Kg
Dimensions	178mm (H) x 483mm (W) x 340mm (D)

LINE-LINE & LINE PHONO STEREO MODULE

INPUT A	Stereo Pin RCA
INPUT A nominal level	0 dBm (LINE – Channels 4 e 5) Unbalanced +/- 12 dB Gain
	Phono (RIAA – Channels 6) Unbalanced +/- 12 dB Gain
INPUT B	Stereo Unbalanced Pin RCA

INPUT B levels   0 dBm (LINE) +/- 12 dB Gain

INPUT A & B impedance   10 kΩ

MONO / STEREO MODULES

INPUT A   Mono Balanced XLR

INPUT A Levels   -70 dB (MIC Level) +/- 12 dB Gain

INPUT A impedance   > 1,5 kOhm

INPUT B   - 70 dB (MIC level) +/- 12 dB gain ctrl

INPUT B Levels   0 dB (LINE) +/- 12 dB gain ctrl

INPUT B impedance   10 kOhm

TELEPHONE MODULE

Send/Receive separation   20 dB (it can vary depending on telephone line characteristics)

In/out level on telephone line   - 6 dBm on 600 line impedence

Compensation mode   Electronic/Automatic

Line connection   2 wire, RJ11 connector

REC Telephone output   0 dB level Unbalanced PinRCA

Master Module

MASTER Output 1 & 2   Stereo Electronically Balanced SubD 15P ∞ to + 6 dB ctrl

MASTER Output 3 and Fixed (Out 3)	Stereo Unbalanced PinRCA ∞ to + 6 dB ctrl
MASTER Mono Outputs	Mono Unbalanced 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 Unbalanced PinRCA ∞ to + 6 dB gain ctrl
MONITOR Output	Speaker (Stereo Line) Unbalanced PinRCA ∞ to + 6 dBm gain ctrl Headphones Unbalanced Jack 1/4" ∞ to +12 dBm gain ctrl
TALKBACK Output	Stereo Line

Dimensions

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