

# Oxygen 3 ST



## Broadcast **mixing console**

**OXYGEN 3 ST** 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 ST** combines ease of use, flexibility and robustness.

**OXYGEN 3 ST** 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 ST** is the analogue rock-solid console and is a life guaranteed investment.



## Main Features

Compact and rock-solid design

3 microphone inputs

6 balanced stereo inputs

3 unbalanced stereo inputs

**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 ST** 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 ST** console provides balanced inputs and balanced outputs. **OXYGEN 3 ST** features electronically balanced LINE inputs on Jack 1/4" female 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, PFL and PGM buttons.

Balance control 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:**

**6 balanced stereo LINE inputs on Jack connector**  
**3 unbalanced stereo inputs that can be set as LINE or PHONO, by internal jumper, on RCA connector**

## 2 Telephone Hybrid (POTS)

Telephone lines and Telephone set connector for each line. 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.**

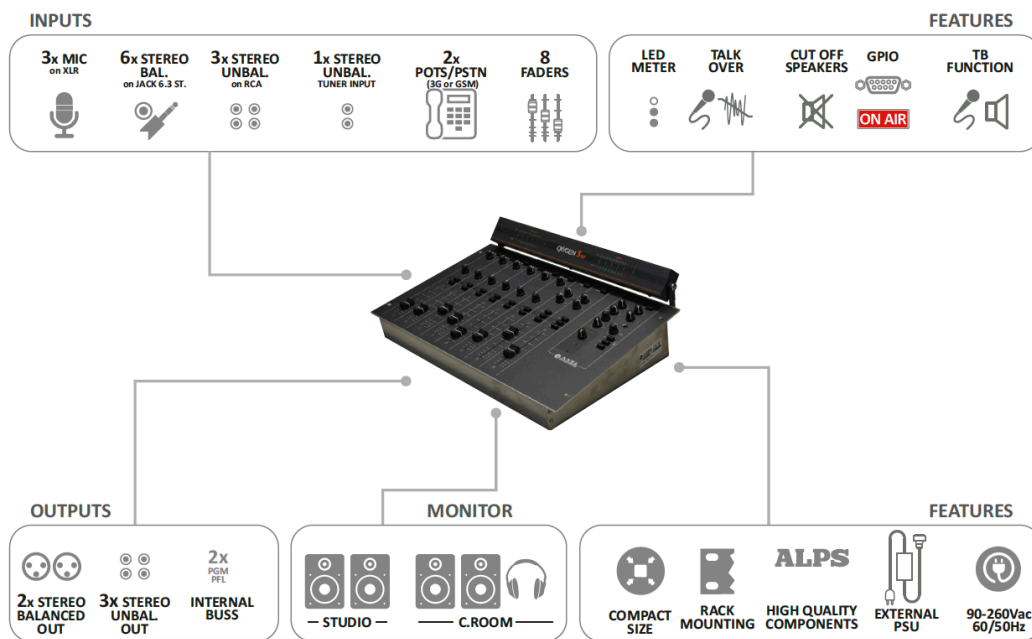
**Talkover function to automatically  
adjust/attenuate the music level on master output  
when presenter talk on mic 1.**

## **Power Supply Unit**

**External switching PSU**



90-260 VAC 50/60Hz.



## 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 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) Unbalanced +/- 12 dB gain ctrl  
Phono (RIAA – Channel 6) Unbalanced +/- 12 dB gain ctrl

**INPUT A & B impedance**      10 kΩ

## MONO / STEREO MODULES

**INPUT A**      Stereo 0 dBm (LINE) Balanced Jack 1/4" +/- 12 dB gain ctrl

**INPUT A impedance**      10 kΩ

**INPUT B**      Mono - 70 dB (MICRO level) Balanced XLR +/- 12 dB gain ctrl

**INPUT B impedance**      > 1,5 kΩ

## 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 impedance

**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  $\infty$  to + 6 dB ctrl

**MASTER Output 3 and Fixed** Stereo Unbalanced PinRCA  $\infty$  to + 6 dB ctrl  
(Out 3)

**MASTER Mono Outputs** Mono Unbalanced PinRCA 0 dBm

**Nominal MST Output Level** 0 dBu (LINE)

**MST output Impedance** 100  $\Omega$

**Noise (DIN Noise)**  $\leq$  - 78 dBm

**Crosstalk** < - 65 dB @ 10 kHz

**THD+N** < - 70.5 dB @ 1 kHz

## Monitor Module

**TUNER IN** Stereo Line Unbalanced PinRCA  $\infty$  to + 6 dB  
gain ctrl

**MONITOR Output** Speaker (Stereo Line) Unbalanced PinRCA  $\infty$  to + 6 dBm gain ctrl  
Headphones Unbalanced Jack 1/4"  $\infty$  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
