



>> Designed to Fit in Any Studio

Oxygen 2000 is a Digital Broadcast Console designed for on-air and production.

Twelve faders unit, five microphone inputs with Automix, powerful internal audio routing, and a wide range of controls and I/O in a rugged and classy steel chassis.

Oxygen 2000 is as reliable and easy to use as an analog mixing console. It offers top-class features: low latency, user preset, smart keys, EQ, compressors, telephone hybrid, HDMI output, analog and Digital I/O, USB, BT, DanteTM AoIP, telco, and talk box.

Oxygen 2000 can be remotely controlled through the Oxygen Remoter tool, which is always included in any Oxygen Console.





// Overview

Input & Output

- 5 microphone inputs with Automix
- 3 stereo analog inputs (4 if the console is configured for 3 Mic)
- 4 stereo analog outputs
- 1 built-in telephone hybrid
- 1+4 telco interface with GPIO
- BT audio interface (optional)
- 1 digital Out (AES/EBU)
- 2 USB audio interfaces (disabled with DanteTM option installed)
- 8 stereo inputs + 8 stereo outputs via DanteTM (optional)

General

- Fully Digital Broadcast Console for Radio Broadcasting with 12 faders
- A/B Fast source switch buttons for each fader
- 4+1 busses (PGM, SUB, Aux1, Aux2, PFL)
- Near 0 latency (< 0,7 ms I/O)</p>
- Complete Remote Control through the Oxygen Remoter application replicating the surface
- Remote configuration and maintenance via Web Interface
- User-definable Presets & Snapshot
- 5 bands fully parametric Equalizer on every input
- Dynamic Processor with expander and compressor section on each microphone inputs
- Advanced and configurable Monitor Facilities for the Control Room and Studio
- Customizable RGB-colored buttons
- High Resolution (120 LEDs) meter bars for outputs
- HDMI Out for console status display
- 2 Timers (Ctrl-Room and Studio microphones timers on HDMI Monitor)
- TalkBox for guest and presenter (optional)

Versions

- Oxygen 2000
- Oxygen 2000 DanteTM

Options

- Talk Box
- DanteTM I/O Board
- RJ45 adapters for:
- Mic with GPIO
- Line In
- Line Out with GPIO
- Telco with GPIO



Rear panel Oxygen 2000



Oxygen Remoter



Talk Box



For more information about Oxygen 2000, visit our website



// Specifications

Analog Balanced Microphone Inputs

Connector RJ45 & XLR Balanced – EMI Suppressed

 Input Impedance
 2,4 KΩ

 Nominal Input Level (sensitivity)
 -9/-66 dBu

 Max Input Level (clipping point)
 +9 dBu

 A/D conversion
 24 bit / 48 Khz

Signal To Noise Ratio (referred to peak level) >90 dB

THD+N <0,01%

Analog Gain Adjustable +0 ÷ +57 dB (3dB step)

Phantom Power +48V

Analog Balanced Stereo Inputs

Connector XLR & RJ45 Balanced – EMI Suppressed

 Input Impedance
 10 KΩ

 Nominal Input Level (sensitivity)
 0 dBu

 Max Input Level (clipping point)
 +18 dBu

 A/D conversion
 24 bit / 48 Khz

Frequency response +/-0,5 dB from 20 Hz to 20 kHz

Signal To Noise Ratio (referred to peak level) >100 dB
Stereo Separation (referred to peak level) >90 dB
THD+N <0,002 %

Analog Balanced Telco Input

Connector RJ45 Balanced – EMI Suppressed

 Input Impedance
 10 KΩ

 Nominal Input Level (sensitivity)
 0 dBu

 Max Input Level (clipping point)
 +18 dBu

 A/D conversion
 24 bit / 48 Khz

 Signal To Noise Ratio (referred to peak level)
 >100 dB

 THD+N
 <0,002%</td>

PSTN Interface

Connector RJ11
Transhybrid loss >20 dB

Analog Balanced Stereo Outputs

Connector RJ45 Balanced – EMI Suppressed

Output Impedance 23 Ω , nominal 600 Ω

Nominal Output Level 0 dBu

Max Output Level (clipping point) +18 dBu

D/A conversion 24 bit / 48 Khz

Signal To Noise Ratio (referred to peak level) >100 dB

Stereo Separation (referred to peak level) >90 dB THD+N <0,002 %

// Specifications

USB Audio Digital I/O

Connector USB Type B – EMI Suppressed

Playback And Recording Sample Rate SRC 44.1-48 KHz

Resolution 16 bit

Available Stereo Channels 1 Play & 1 Rec for each USB interface

Digital Output

 Connector
 Balanced on 1 XLR – EMI Suppressed

 Input Impedance
 110 Ω

 Standard
 AES3

 Audio Sample Rate
 48 KHz

 Resolution
 24 bit

 Dynamic Range (Converter Values)
 124 dB

Analog Balanced Telco Output

 Connector
 RJ45 Balanced – EMI Suppressed

 Output Impedance
 23 Ω, nominal 600 Ω

 Nominal Output Level
 0 dBu

 Max Output Level (clipping point)
 +18 dBu

 D/A conversion
 24 bit / 48 Khz

 Signal To Noise Ratio (referred to peak level)
 >100 dB

 THD+N
 <0,002 %</td>

System

Audio Core Analog Devices ADAU1452 32bit 294 MHz fixed point DSP Audio CODECs Cirrus CS42448 24 bit/192 kHz **System Core** Allwinner A20 dual core cortex-A7 at 800MHz, 1GB RAM **LAN Connection** RJ45 - 100Mbit Nominal Delay (analog input to analog output) **GPIO Inputs/Outputs** 4 GPI/4 GPO on DB9; 4 GPI/2 GPO on Mic2 & Mic3 RJ45; 2 GPO on Out3 & Out4 RJ45; 1 GPI/1 GPO on Telco RJ45 2xUSB type-A, 2xUSB type-B, 1xLAN, 1xHDMI **Communication Port** 0°C ÷ 40°C **Operating Temperature**

PSU

Power Supply 90-260 VAC / 47-63 Hz / 30 W

Dimensions

Dimensions (W; H; D) 614mm; 80mm; 343mm
Weight 7.1 Kg