# Orb 822SC

Premium Mixing Consoles

Overview

The Orb 822 SC is a compact 8 channel mixer with dual functionality of playback and recording on a pen drive or on a PC via USB audio interface, One Knob compression, DSP-based multi-EFX processor and a host of professional-grade features for live, install and recording applications.

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Key Features

One Knob Compressor

Benefits of One Knob Compression
- Higher effective gain
- Reduced equipment damage
- Even signal level
- Makes loud signals softer and soft signals louder
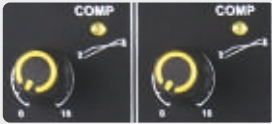
USB MP3 Media Player & Recorder

USB ENABLED   **mp3**

● REC   **Bluetooth**

Recording

Built-in USB Audio Interface

PLAYBACK
RECORDING

PLUG & PLAY

Multi-EFX Processor

DSP
Multi-EFX DSP

24BIT 48kHz
High Res. Sampling Rate

- Reverb
- Delay
- Echo
- Early Ref
- Gate Rev
- Vocal Echo

24 DSP Presets

EFX to MON Routing

1 REV HALL 1
2 REV HALL 2
3 REV ROOM 1
4 REV ROOM 2
5 REV STAGE 1
6 REV STAGE 2
7 REV PLATE
8 DRUM AMB
9 EARLY REF
10 GATE REV
11 SINGLE DLY
12 DELAY
13 VOCAL ECHO
14 KARAOKE
15 PHASER
16 FLANGER
17 CHORUS 1
18 CHORUS 2
19 SYMPHONIC
20 TREMOLO
21 AUTO WAH
22 RADIO VOICE
23 DISTORTION
24 PITCH CHANGE
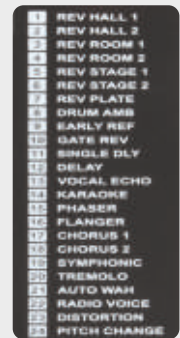
Professional-Grade Features

HD HIGH DEFINITION PREAMPS   **+48 voltage** PHANTOM POWER   **60MM FADERS**

- Globally switched +48V phantom power supply
- Ultra low-noise preamps with wide headroom and dynamic range
- Responsive 60mm faders

3 Aux Sends

- 2 pre/post & 1 post
- Stereo Aux returns

Stylish, Intuitive & Ergonomic

- Angled for visibility
- Classy side cheeks
- Rear panel input/output

7-Band Stereo Graphic Equalizer

Abundant Input, Output & Routing Options

- MON:Ster (mono-stereo) inputs for full flexibility.
- 75Hz low cut on mono channels.
- 4-band EQ on all inputs.
- 2 sub groups with individual ¼" outputs.
- Insert (send/return) on first 4 mono channels and main output.

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All Features

- Professional 8 channel audio mixing console with 8 mic / 10 line inputs.
- MON:Ster (mono-stereo) inputs for full flexibility.
- 75Hz low cut on mono channels.
- Gain with ultra low-noise preamps with wide headroom and dynamic range.
- One Knob Compressor on 2 channels.
- Built-in multi-EFX processor with 24 DSP presets and editable parameters.
- Provisions to route EFX to monitor via Aux 1.
- Dual USB audio interface with plug & play connectivity for recording and playback using a PC.
- USB MP3 media player & recorder with Bluetooth.
- Level control, 2-band EQ with internal/external media input selection.
- 4-band EQ on all inputs.
- Insert (send/return) on first 3 mono channels and master output.

- 3 Aux sends (2 pre/post & 1 post) with stereo Aux returns.
- 2 sub groups with individual ¼" outputs.
- Balanced XLR and ¼" jack main outputs.
- Mute, solo, group (G1-G2) and main (L-R) routing per channel.
- Peak, comp, mute and solo LEDs per channel.
- Stereo RCA input and record output.
- 7-band stereo graphic equalizer on main output.
- ¼" headphone output with level control.
- Globally switched +48V Phantom power supply.
- Responsive 60mm faders.
- Dual 10-segment LED meter for main, group and solo outputs.
- Ergonomic angled-design for better visibility.
- Clutter-free rear panel input and output connectivity.

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Technical Specifications

Parameter	Specifications
Nominal Gain (Mic / Line / Stereo Line)	60dB / 40dB / 20dB
Max Gain (Mic / Line / Stereo Line)	80dB / 60dB / 40dB

Input Output Levels

Parameter	Specifications
Mic (Gain Min / Gain Max)	-10dBu / -60dBu
Line (Gain Min / Gain Max)	+10dBu / -40dBu
Stereo Line (Gain Min / Gain Max)	+10dBu / -20dBu
Aux Return (Nominal / Max)	-10dBu / +30dBu

Output Levels

Parameter	Specifications
Main Output (Nominal / Max)	0dBu (0.775V RMS) / +20dBu (7.75V RMS) Max
Insert In/Out (Nominal / Max)	0dBu (0.775V RMS) / +20dBu (7.75V RMS) Max

General

Parameter	Specifications
Mic Input Impedance	5 KΩ Balanced
Line Input Impedance	20KΩ Balanced / 10KΩ Unbalanced
Frequency Response	20Hz-20kHz (+0 / -1dB)
Total Harmonic Distortion	< 0.02%
MIC EIN (Equivalent Input Noise)	-128dB
Main Out/Group Out	-80dB

Equalisation

Parameter	Specifications
Mono MIC (Hi / Hi-Mid / Low-Mid / Low)	±15dB @ 12kHz / 2.5kHz / 400Hz / 80Hz
Stereo Line (Hi / Hi-Mid / Low-Mid / Low)	±15dB @ 12kHz / 2.5kHz / 400Hz / 80Hz
Dimensions (W x D x H) mm	500 x 490 x 160
Net Weight (Kg)	6.5

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Dimensions

Height
160mm

Depth
490mm

Width
500mm

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