![zero88 logo]

ORB SERIES

A brand new experience

COOPER Controls

Zero 88 and ORB Series

Zero 88

Zero 88 has been a market leading, entertainment lighting control brand, for over 40 years.

With focus on the unique and specialist needs of the entertainment industry, the Zero 88 product range by Cooper Controls provides dimming, console and software solutions for the ultimate in performance lighting control.

Zero 88 control products can be found whenever dynamic lighting is required, including theatrical, live performance, education, presentation and architainment applications.

ORB Series

With a combination of theatrical control philosophy and an adaptable hardware platform, the ORB Series provide intuitive control of both generic dimmers and moving lights.

The ORB Series consoles support 2048 (upgradeable to 4096) control channels, multiple playback stacks and are fitted with custom designed encoder wheels for dimmer and fixture control. Utilising a numeric keypad, integrated track ball, automatic palettes and syntax keys, programming on the ORB consoles is familiar to both beginners and experienced professionals. Further software features include onscreen colour pickers, gobo image display, and a sleek clear user interface, which brings the latest in lighting control technology to your fingertips.

From lighting design to lighting innovation...

Experience

The design behind the ORB Series is centred upon usability. From day one you'll find the interface familiar, simple and easy to understand. Ergonomic layout of the front panel controls combined with clear and concise monitor displays make the ORB experience one you'll keep coming back to.

Performance

Built on the ZerOS platform, users of the ORB Series can sit safe in the knowledge that thousands of shows rely on ZerOS every day. Features within the software simplify both the programming and playback of even the most complex shows, whilst dedicated tracking backups and offline editors provide the ultimate piece of mind for mission critical productions.

Flexibility

Targeting flexibility as the number one design aim, the ORB Series has achieved a truly user configurable operating experience. Create your own monitor displays, lay out your front panel controls as you require and define the behaviours that suit your show - the choice really is up to you.

...the possibilities are endless

Key Differences

Two versions of ORB are available, allowing professional theatre operators to choose a control solution to meet the needs of either traditional pre-programmed shows or dynamic live performances.

ORB

The ORB caters for traditional operators working primarily with cue lists. It features 10 Playback Faders which may be assigned as submasters or cuestacks with individual 'Go', 'Pause/Back' and 'Select' buttons, plus dedicated LCD displays across the operating surface for instant access to information.

ORB XF

ORB XF adds fader control for intensity channels and live submaster playback, making it ideal for hands on control of live events.

ORB XF features 60 multifunction faders which can be utilised as either channel controls (pagable across your entire patch), submasters (pagable across 20 pages) or playbacks (bottom 20 faders only). A dual colour LED flash button under each fader indicates the current function.

ORB Series

Designed with simplicity and familiarity in mind, ORB Series offer a control surface that will feel familiar to experienced lighting operators whilst being quick to learn for those starting afresh. Ergonomic styling prevents operator fatigue whilst the layout and design has been optimised for clear workflows.

Key Features - both consoles:

- 2048 Control Channels, fully patchable to 4 DMX Universes. Output via 5 Pin XLR and Ethernet
- Optional upgrade to 4096 control channels (8 universes) available
- 1000 Cue Stacks
- 1000 Cues per Stack
- 2 Playback Master faders
- Go Button playback
- Fully customisable effects engine
- 1000 each of Colour, Beamshape, Position and Effect Palettes
- Integrated colour picker
- 1000 Fixture groups
- Auto palettes, groups and fixture macros
- 1000 User Definable Macros
- 4 Onboard USB ports for software updates, show backups and connection of accessories
- 2 x XGA monitor outputs
- Onboard fixture library
- Move on Dark
- Familiar Command Line interface
- Integrated Trackball for precise moving light control
- Support for remote control through handheld devices and remote monitors
- Tracking Backup over Ethernet

ORB - Key Features plus:

- 10 Playback Masters assignable as Cuestacks or Submasters
- 600 submasters (30 x 20 pages) via DMX In

ORB XF - Key Features plus:

- 60 Multifuction Faders selectable as channels, submasters or playbacks

ZerOS Software

ZerOS is the backbone of the console. This feature-rich operating software offers up to 8 universes of control, with a clean, simple user interface and advanced features including a colour picker, moving light library, gobo images, part cues and touch screen support.

Networking

The ORB Series provides full networking capability including DMX over Ethernet (sACN & Art-Net), support for popular visualisers, wireless mobile device applications (iPhone, iPad, Android, Windows Mobile), Tracking Backup and Ethernet Wings.

Command Syntax

Feel instantly at home with familiar, industry standard syntax, and follow designated Syntax Keys for additional functions such as Park, Knockout and Time Triggers. A user assignable 'spare' key puts your favourite command at your fingertips.

User Definable Keys

Instant access to what you use most. User Definable Keys can be assigned as Channels, Groups, Palettes, Macros, Scenes or Views for ultimate flexibility in control.
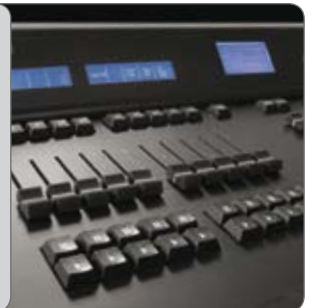
Control Wheels

Sophisticated control at your fingertips. The ORB Series features three integral encoders for efficient moving light and LED control, a dedicated control wheel for adjusting intensities and a trackball with built in cursor and pan/tilt adjustment.
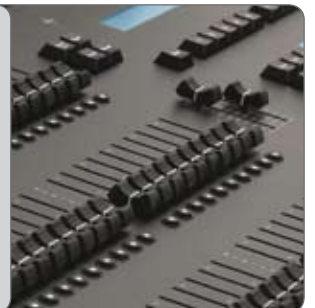
Playbacks and LCD's (ORB)

True flexibility. 10 Playbacks across 100 pages offer flexibility for cue playback and double as submasters for live events, whilst the integrated LCD screens provide the information you need at the time that you want it.

Multifunction Faders (ORB XF)

Get hands on. The 60 multifunction faders can be assigned as channel faders (to control all 2048 channels) submasters or full cue stacks with go buttons.

Master Playback

Full Theatrical Playback. ORB Series features 2 dedicated playback faders offering full theatrical playback including A/B crossfading, fade time overrides and Pause/Back functionality.

ZerOS Software

Key Features - ZerOS

- Full tracking command line control
- Select fixtures via individual channels or groups
- Adjust individual parameters manually via encoders
- Quickly select parameter palettes including Colour, Beam, Position and Effects
- Pan/Tilt control via fullscreen XY grid
- Colour Picker and RGB/CMY/HSV faders
- Select gobos via on screen image picker
- **LED Matrix engine for pixel mapping of colour and intensity control**
- Record and edit cues and submasters, including fade times and delays
- Playback cues from multiple stacks
- **RDM Support for patching, configuring and monitoring compatible devices**
- Remote available for iOS, Android and Windows Mobile* devices
- Tracking Backup function from other ZerOS consoles or Phantom ZerOS, offline editor

(* limited features)

ZerOS is the operating software for the ORB and ORB XF (as well as our Solution, Solution XL, Leap Frog 48, Leap Frog 96 and Frog 2 consoles). ZerOS is based upon a Linux operating system and features a window based navigation system which will be familiar to any computer user. Simple controls allow the customization of the monitor displays, including resizable windows, user selectable colour schemes and advanced visual displays such as Colour Pickers.

ZerOS Remotes

The ZerOS remotes are available for iPhone, iPod Touch, iPad, Android and Windows Mobile devices for total, wireless, control of your ORB Series lighting console over a wireless network.

Manipulate, control, and play back your shows remotely, automatically detecting any ZerOS desk on the same network as your mobile device.

The ZerOS remote is ideal as a remote focus/console unit during fit ups, focus and plotting sessions, and provides quick and simple control of both generic dimmers and moving lights.

Fixture Library

Included with ZerOS is the latest Zero 88 fixture library, which features over 2700 fixture types from 175 manufacturers. This comprehensive library includes details about colours on fixed wheels, gobo images and position information enabling ZerOS consoles to present a unified set of controls, regardless of the fixture being controlled. Tools are also provided to build custom fixture types using a simple PC application.

Phantom ZerOS

Phantom ZerOS is an offline editor for the ZerOS consoles and provides full desk functionality from a standard Windows PC. Show files can be loaded from USB, manipulated using the standard desk controls and then re-saved as required. With the purchase of an unlock dongle, Phantom ZerOS can also be unlocked as a tracking backup solution to the main desk.

The ORB global community is constantly growing. To ensure you have access to the latest product updates and specialist knowledge when you need it, we have a number of information sites and services to support your needs, wherever you are located.

Website

In addition to our main website **zero88.com**, Zero 88 has a dedicated mini site for our ORB Series of consoles.

orbdesk.com features latest news, software updates, training dates and product specific downloads for the ORB consoles. Please check this site regularly for the very latest ORB Series news.

Forums

Zero 88 hosts an online forum for all our products within our support centre **support.zero88.com/forum** and the ORB Series has a dedicated thread within the ZerOS software section.

This is the perfect place to keep up to date with software releases, request new features, enquire about product selection or usage and keep in touch with other users. You can contribute to our continuous software development through new feature suggestions and our beta test programme.

Social Media

Zero 88 can also be found on Facebook, Twitter and YouTube. These sites are updated regularly with news, training and product usage tips as well as general information on what the Zero 88 team are up to. Just search for **Zero 88** on Facebook or follow us on Twitter **@Zero88** and **@orbdesk**.

Zero 88 has a YouTube Channel which includes product overviews, training and interviews in video format. This is available at **youtube.com/zero88**.

Training

We run regular ORB Series training courses at our factory in Cwmbran and at the Phoenix Artist Club in London (below the Phoenix Theatre on Charing Cross Road).

These training days are open to anyone who has recently purchased, or is considering purchasing an ORB Series console, or anyone looking to extend their range of console knowledge. They are free of charge and run from 10am to 4pm with a light lunch included. Places must be booked in advance.

Please visit **orbdesk.com** for latest dates and to book your place.

International training

Flexible product training opportunities are also available outside the UK. These courses are usually held at specific venues in conjunction with one of our international dealers. Please contact your nearest representative from the list below or get in touch with Jon Hole for further information about training in your area.

Contacts

In addition to our online forums and social media tools we are still happy to answer any questions you have directly. If you would prefer to contact us in person we have several ORB Series specialists available to help.

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