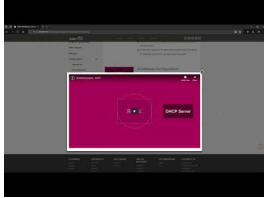


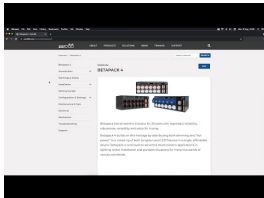
This manual

This online manual describes the operation of each of the FLX range lighting control consoles and accessories running the ZerOS operating software. It will also include tips for other consoles running ZerOS, such as Solution consoles.



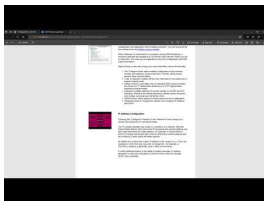
<https://youtu.be/gvNuwCChcrg>

For an overview of the Zero 88 Online Manuals, take a look at this video.



https://youtu.be/Turfy1Ar_Kg

For detailed information on each function, the manual has been divided into chapters - one for each major area, which can be navigated using the menu on the left-hand side. You can also search the manual using the search bar top right.



<https://youtu.be/7BZsxnBjcno>

Each section or whole chapters can be exported to PDF by tapping "PDF", found just below the search bar. The whole manual can be exported as a PDF, by tapping "PDF" at the top page of the manual.

As each FLX range console is different, you can use the filter top right of the manual, so you only see the information relevant to your console.

Zero 88 online manuals are updated regularly to ensure you have all the relevant information and useful tips. [Check out the Revisions section to see what has been added](#). If you see something that doesn't look right, or have suggestions, please send us an email to support@zero88.com.

Conventions

Throughout this manual the following conventions are used:

References to physical front panel controls and buttons appear within a solid border, for example:

1 **THRU** **6** **@** **@** **RECORD** **ENTER**

References to "soft buttons", which appear on the monitor, are displayed in italics, within a dotted border, as follows:

Defaults -> *Playback Defaults* -> *Move On Dark* -> *Disabled*

Thank You

Thank you for choosing the FLX Range by Zero 88 to fulfil your lighting control needs. We sincerely hope that your console will bring you years of trouble free service. We make great efforts to build in reliability and serviceability at every stage of our development and production processes and include a three-year limited warranty - giving you peace of mind for your investment.

Our extensive dealer network can also provide you with technical service and sales support in your local language no matter where you are in the world. If you have any questions, comments or problems our contact details can be found at zero88.com/support Once again, thank you for choosing Zero 88.

Revisions

Watch the video below, to learn about the latest features in ZerOS 7.13...



<https://youtu.be/ZXsRJIOeK50>

Manual Revisions

- [Sep 2022 - Version number updated - ES - ZerOS 7.13](#)
- [Sep 2022 - More options when fixtures are missing - ES - ZerOS 7.13](#)
- [Sep 2022 - Export is now Edit & Export - ES - ZerOS 7.13](#)
- [Sep 2022 - Unpin Add Fixtures - ES - ZerOS 7.13](#)
- [Sep 2022 - Change Profiles is now Change Fixtures - ES - ZerOS 7.13](#)
- [Sep 2022 - GDTF Fixture Files - ES - ZerOS 7.13](#)
- [Sep 2022 - Search Improvements - ES - ZerOS 7.13](#)
- [Sep 2022 - Pinned Fixtures - ES - ZerOS 7.13](#)
- [Sep 2022 - Fixture Creator added - ES - ZerOS 7.13](#)
- [Aug 2022 - Additional supported ASCII file types added - ES - ZerOS 7.12](#)
- [Aug 2022 - Information on Hue Smart Bulb & Smart Plug pairing added - ES - ZerOS 7.12](#)
- [Jul 2022 - YouTube links updated to Vari-Lite - ES - ZerOS 7.12](#)
- [Jul 2022 - Information added on ZerOS Show File Save Options - ES - ZerOS 7.12](#)
- [Jun 2022 - Version number updated - ES - ZerOS 7.12](#)
- [Jun 2022 - Fixture UDKs removed - ES - ZerOS 7.12](#)
- [Jun 2022 - Setup -> Triggers is now available for FLX S - ES - ZerOS 7.12](#)
- [Jun 2022 - Vision.Net section added - ES - ZerOS 7.12](#)
- [Jun 2022 - Philips Hue section added - ES - ZerOS 7.12](#)

- [Jun 2022 - KiNET section added - ES - ZerOS 7.12](#)
- [Apr 2022 - Version number updated - ES - ZerOS 7.11](#)
- [Apr 2022 - Colour Faders page updated to reflect UI changes - ES - ZerOS 7.11](#)
- [Apr 2022 - "Colour Picker Controls UV" information added to Fixture Settings - ES - ZerOS 7.11](#)
- [Apr 2022 - Information on Warm White and Cool White palettes added - ES - ZerOS 7.11](#)
- [Apr 2022 - Change Fixtures page updated to reflect UI changes - ES - ZerOS 7.11](#)
- [Apr 2022 - ZerOS Library data information updated - ES - ZerOS 7.11](#)
- [Apr 2022 - Parameter list information added to Add Fixtures - ES - ZerOS 7.11](#)
- [Apr 2022 - Colour Temperature information added to Colour Picker - ES - ZerOS 7.11](#)
- [Apr 2022 - ZerOS Colour Mixing information added to Colour - ES - ZerOS 7.11](#)
- [Apr 2022 - Filters page updated to reflect UI changes - ES - ZerOS 7.11](#)
- [Apr 2022 - Information on Colour Filter References added - ES - ZerOS 7.11](#)
- [Apr 2022 - Attribute & Parameter Homing information added - ES - ZerOS 7.11](#)
- [Apr 2022 - "Fixture Export" section added to Add Fixtures - ES - ZerOS 7.11](#)
- [Apr 2022 - "Searching & Filtering" section added to Add Fixtures - ES - ZerOS 7.11](#)
- [Apr 2022 - "Fixture Files" section updated to "Missing Fixtures" - ES - ZerOS 7.10](#)
- [Apr 2022 - Fixture Editor information moved to Add Fixtures - ES - ZerOS 7.10](#)
- [Mar 2022 - Capture Demo Files updated to Capture 2022 - ES - ZerOS 7.10](#)
- [Dec 2021 - Fixture swap-out rules added - ES - ZerOS 7.10](#)
- [Nov 2021 - Version number updated - ES - ZerOS 7.10](#)
- [Nov 2021 - More information added on cue delay times - ES - ZerOS 7.10](#)
- [Nov 2021 - "Multicell Fixtures" section added - ES - ZerOS 7.10](#)
- [Nov 2021 - "Choosing an Attribute" section removed, and added to "Parameters" - ES - ZerOS 7.10](#)
- [Nov 2021 - Information on fanning effects across multicell fixtures added - ES - ZerOS 7.10](#)
- [Nov 2021 - Information on fanning multicell fixtures on the colour picker added - ES - ZerOS 7.10](#)
- [Nov 2021 - Multicell information added to Parking - ES - ZerOS 7.10](#)
- [Nov 2021 - Multicell information added to Highlight & Rem Dim - ES - ZerOS 7.10](#)
- [Nov 2021 - Move On Dark Cue Settings - ES - ZerOS 7.10](#)
- [Nov 2021 - Fixture Schedule columns updated - ES - ZerOS 7.10](#)
- [Nov 2021 - DMX In hidden when manual is filtered by hardware without DMX in - ES - ZerOS 7.10](#)
- [Nov 2021 - Fixture Alignment now "Fixture Settings" - ES - ZerOS 7.10](#)
- [Nov 2021 - Phantom ZerOS UI updated - ES - ZerOS 7.10](#)
- [Nov 2021 - "Moving" section added to Cues & Playbacks - ES - ZerOS 7.10](#)
- [Nov 2021 - "Next & Previous" section added, removed from Controlling Fixtures - ES - ZerOS 7.10](#)
- [Nov 2021 - More information added to Intensity Wheel section - ES - ZerOS 7.10](#)
- [Nov 2021 - "Copying Palettes" now "Copying & Moving Palettes" - ES - ZerOS 7.10](#)
- [Nov 2021 - "Copying Groups" now "Copying & Moving Groups" - ES - ZerOS 7.10](#)
- [Nov 2021 - Multicell group information added - ES - ZerOS 7.10](#)
- [Nov 2021 - "+" and "-" fade time editing information added - ES - ZerOS 7.10](#)
- [Nov 2021 - "@ +" and "@ -" syntax information added - ES - ZerOS 7.10](#)
- [Nov 2021 - Clear button information removed from Controlling Fixtures chapter - ES - ZerOS 7.10](#)
- [Nov 2021 - Fixture selection information removed from Controlling Fixtures chapter - ES - ZerOS 7.10](#)
- [Nov 2021 - "The Clear Button" section created - ES - ZerOS 7.10](#)
- [Nov 2021 - Multicell information added to Commands section - ES - ZerOS 7.10](#)
- [Nov 2021 - Multicell information added to Channel Faders section - ES - ZerOS 7.10](#)
- [Nov 2021 - "Intensity" chapter changed to "Selection & Intensity - ES - ZerOS 7.10](#)
- [Nov 2021 - CAN wiring information added - ES - ZerOS 7.9.9](#)
- [Oct 2021 - Extra Output Window colour code information added - ES - ZerOS 7.9.9](#)
- [May 2021 - Information on changing fixture order reworded - ES - ZerOS 7.9.9](#)
- [Mar 2021 - "Available Channels" section added - ES - ZerOS 7.9.9](#)
- [Mar 2021 - Dedicated keyboard shortcut information for FLX S added - ES - ZerOS 7.9.9](#)
- [Feb 2021 - Load separated out into file types - ES - ZerOS 7.9.9](#)
- [Jan 2021 - Windows IP configuration information added - ES - ZerOS 7.9.9](#)
- [Jan 2021 - Art-Net device port configuration information added - ES - ZerOS 7.9.9](#)
- [Dec 2020 - Version number updated - ES - ZerOS 7.9.9](#)
- [Dec 2020 - Information on .zfix fixture files added - ES - ZerOS 7.9.9](#)
- [Dec 2020 - Upgrade tab is now hidden on fully upgraded consoles - ES - ZerOS 7.9.9](#)
- [Dec 2020 - Information on red fixtures in Add Fixtures added - ES - ZerOS 7.9.8](#)
- [Dec 2020 - Dedicated Master Playback section added - ES - ZerOS 7.9.8](#)

- [Nov 2020 - Information on ZerOS Server's front display added - ES - ZerOS 7.9.8](#)
- [Nov 2020 - "Patch Anyway" information added - ES - ZerOS 7.9.8](#)
- [Nov 2020 - Calibration information moved to Setup from Desktops & Windows - ES - ZerOS 7.9.8](#)
- [Nov 2020 - Manual compiled - ES - ZerOS 7.9.8](#)
- [Sep 2020 - Manual created - ES - ZerOS 7.9.8](#)

Hardware Introduction

FLX



Designed to save you time and maximise your creativity, FLX is fully featured, portable and easy to use. FLX supports “industry standard” syntax, external triggering and advanced software & network functions. FLX supports up to 6400 DMX channels and up to 6400 fixtures.



<https://youtu.be/K6tZUhlPrDU>

FLX S24



A powerful LED and moving light controller in a small 19” unit with direct access to up to 48 fixtures in your rig.

FLX S48

A powerful LED and moving light controller with direct access to up to 96 fixtures in your rig and a touch monitor output to provide quick



https://youtu.be/R_PRpdmcs-k

ZerOS Wing



ZerOS Wing can be added onto any ZerOS console, or Phantom ZerOS - the offline PC editor, to increase the number of channels or playback faders available. ZerOS Wing does not increase the total number of playbacks or channels available, just the number of faders available at any one time.

[Click here to find out more about ZerOS Wing.](#)

ZerOS Server



ZerOS Server is a 1U high DMX generator, running the ZerOS Operating System and emulating an iCAN Source Controller. Designed to be used in both entertainment and architectural situations, the ZerOS Server is able to backup FLX consoles or work stand-alone, triggering entertainment style lighting via an architectural lighting control network.

ZerOS Server can emulate any ZerOS console. Feature availability is based upon whichever console it's currently emulating. This manual is written for ZerOS Server running as FLX which is the default Desk Type. [Click here to find out more about Desk Types.](#)

[Click here for more](#)



<https://youtu.be/BBbKoCm2yOg>

Software Introduction

ZerOS

ZerOS is the operating software installed on all FLX Range consoles. It is regularly updated to bring new features and to keep your console stable and secure. Software updates are free of charge and can be downloaded from zero88.com/zeros. It is strongly recommended to always be running the latest release of ZerOS.

As well as the FLX range of consoles, other Zero 88 consoles also run ZerOS. This manual will therefore also be applicable to other consoles running ZerOS too:

Current ZerOS Consoles:

- [FLX](#)
- [FLX S24](#)
- [FLX S48](#)
- [ZerOS Server](#)

Legacy ZerOS Consoles:

- [Solution](#)
- [Solution XL](#)
- [Orb](#)
- [Orb XF](#)
- [Leapfrog 48](#)
- [Leapfrog 96](#)
- [SCD Server \(& Pro\)](#)

Phantom ZerOS

Phantom ZerOS is free software to download onto any Windows 10 PC, and can emulate any ZerOS console. Show files can be loaded, saved and transferred to “real” consoles, useful to setup your show, or make slight changes while you’re not at the console.

[Click here to find out more about Phantom ZerOS.](#)

ZerOS Library

At the heart of ZerOS is “ZerOS Library” – our comprehensive library which includes fixture definitions and details about colour, gobo images and position information enabling ZerOS to present a unified set of controls, regardless of the fixture being controlled. ZerOS Library is automatically updated with every ZerOS operating software update, however it can also be updated independently if required.

[Click here to find out more about ZerOS Library.](#)

Apps

Wireless apps can be used to remotely control and monitor ZerOS consoles, available for free on iOS and Android phones and tablets, along with Windows laptops and PCs. "ZerOS Remote" enables wireless control of your rig, allowing you to manipulate, control and playback your shows. "ZerOS Monitor" emulates a wireless additional external touchscreen monitor.

[Click here to find out more about the ZerOS apps](#)

Compliance

FLX, FLX S48 & FLX S24 comply with the following standards:

- EN 55032:2012: Electromagnetic compatibility of multimedia equipment - Emission Requirements
- EN 61000-3-2:2014: Electromagnetic compatibility (EMC) Part 3-2: Limits — Limits for harmonic current emissions (equipment input current \leq 16 A per phase)
- EN 61000-3-3:2013: Electromagnetic compatibility (EMC) - Part 3-3: Limits – Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current \leq 16 A per phase and not subject to conditional connection
- EN 55103-2:2009: Electromagnetic compatibility. Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use - Immunity
- EN 60950-1:2006/A2:2013: Information technology equipment. Safety. General requirements