

ZerOS Software Release (Public Release)

Released Version:	7.9.5	Release Date:	17 May 2019
Previous Versions:	7.9.4	Release Date:	19 March 2018

ZerOS 7.9.5 Software Release

Introduction

Release 7.9.5 of ZerOS is a new software release recommended for all consoles and servers listed below, running the ZerOS Operating System. These release notes describe the new features, enhancements and bug fixes that have been implemented between versions 7.9.4 and 7.9.5.

Products Affected

- ✓ ORB Series
- ✓ Solution Series
- ✓ FLX
- ✓ FLX S24 & S48
- ✓ SCD Server & SCD Server Pro
- ✓ Phantom ZerOS (offline software)
- ✓ Leap Frog 48 & 96

Compatibility

Due to significant changes throughout ZerOS, especially within SETUP and Effects, showfiles created within ZerOS 7.9.4 or earlier should be thoroughly tested before being used in show-critical situations. Most showfiles saved in ZerOS 7.9.5 will not be entirely backwards compatible with earlier versions of ZerOS.

Update Instructions

Please carefully follow the update instructions available at the end of this document.

The software installation process completely removes all data on the console, including any current show files. If the current show file is still required, **please ensure that backups are taken before proceeding with the update.** After completing the update, you may re-load your show if required.

When performing a software update it is important to ensure that the power supply to your desk is stable and reliable. Power loss during a software update can render your desk unusable.

New Features

ZOS-8550 **SETUP redesign**

SETUP has been redesigned, bringing speed, simplicity and many new features, especially including many additional networking options. Please reference the updated FLX range manual for full information.

This also covers the following issues: ZOS-384, ZOS-1746, ZOS-2370, ZOS-2755, ZOS-2974, ZOS-3761, ZOS-5325, ZOS-5329, ZOS-5383, ZOS-5605, ZOS-6014, ZOS-6016, ZOS-6017, ZOS-6041, ZOS-6864, ZOS-6865, ZOS-7310, ZOS-7710, ZOS-7715, ZOS-7785, ZOS-7816, ZOS-7871, ZOS-7886, ZOS-7965, ZOS-8019, ZOS-8116, ZOS-8331, ZOS-8346, ZOS-8364, ZOS-8426, ZOS-8619, ZOS-8626, ZOS-8660, ZOS-8661 and ZOS-8716

ZOS-8652 **FLX consoles now support up to 8192 DMX channels**

FLX consoles now support up to 8192 DMX channels (the equivalent of 16 full universes), and can be upgraded in increments of 512 DMX channels using the fully-online upgrade system at zero88.com/software/zeros/upgrade/

ZOS-8656 **All ZerOS consoles can now be patched across 64 universes**

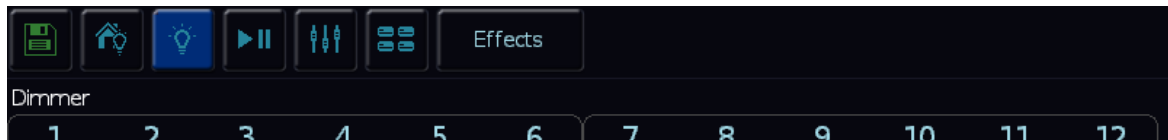
ZerOS' new "flexible channel allocation" model allows fixtures to be patched across 64 universes of Art-Net 4, sACN or C1TP without wasting unused channels. Previous "universe limitations" have been replaced by "DMX channel limitations" (1 Universe = 512 DMX Channels). Console limitations are now as follows:

- FLX S support either 512 or 1024 DMX channels
- FLX supports between 2048 and 8192 DMX channels
- Solution Series and Leafrog 48&96 supports 2048 DMX channels
- ORB Series consoles support 4096 DMX channels

This also covers the following issues: ZOS-8657

ZOS-8677 **"Home" fixtures added to FLX S**

FLX S users can now "Home" fixtures using the new icon added to the top left of the FLX S touchscreen. Users can also adjust each parameter's "Default", "Home" and "Max Value" by creating the lighting state they wish to store and pressing RECORD followed by tapping the new "Home" icon. FLX S will display a pop-up prompting the user to choose which value to store.



ZOS-8809 **Additional desktops now available on FLX range.**

FLX & FLX S now include four desktop layouts, including one that allows multiple colour tabs to be open at the same time. VIEW and SHIFT+VIEW commands have been updated to switch to the next and previous desktop respectively. Remote Monitors (iOS, Android & Windows) can now view any of these desktops independently of the console's display.



ZOS-8832 Updates to Effects throughout ZerOS

Auto Effect Palettes now include the addition of effects such as “emergency”, “warning”, “lightning” and “flicker”. Some previous Auto Effect Palettes have been adjusted, such as modifying “Rainbow” to be more saturated and “Chaser” to automatically offset across the selected fixtures. The list of Waveforms have been updated to remove duplicates (such as “Sinewave +90”) and to add the “realistic” waveforms required for the new Auto Effects.

This also covers the following issues: ZOS-2273, ZOS-5725, ZOS-8658, ZOS-8659, ZOS-8819, ZOS-8821, ZOS-8822, ZOS-8823, ZOS-8824, ZOS-8826, ZOS-8827, ZOS-8830, ZOS-8836, ZOS-8837 and ZOS-9266

Intensity auto effect palettes:

Chaser – 1/2 (Previously “Chaser”, now includes offset)



Chaser - 1/4 (New, includes offset)



Chaser - 1/8 (Previously “Mark On”, now includes offset)



Smooth (Now includes offset)



Ramp up (New, includes random offset)



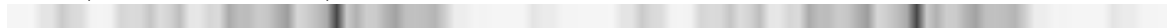
Ramp down (New, includes random offset)



Lightning (New)



Candle (New, includes random offset)



Double blink (New)



Position & beamshape auto effect palettes:

Circle (Now includes offset)

Figure 8 (Now includes random offset)

Ballyhoo (New, includes random offset)

Fly In (Updated, now includes random offset)

Fly Out (Updated, now includes random offset)

Square (Now includes offset)

Step Square (Now includes offset)

Triangle (Now includes offset)

Vert. Line (Now includes offset)

Horiz. Line (Now includes offset)

Iris Fade (Previously “Iris”, now includes random offset)

Iris Step (Previously “Iris Step On”, updated waveform, now includes random offset)

Zoom Fade (New, includes random offset)

Zoom Step (New, includes random offset)

Focus Fade (Previously “Focus”, updated size, removed base value, now includes random offset)

Colour auto effect palettes:

Rainbow *(Increased saturation, now includes offset)*



Rainbow – pastel *(New)*



Rainbow – warm *(Previously "Red Rainbow", improved colours, now includes random offset)*



Rainbow – cool *(Previously "Blue Rainbow", improved colours, now includes random offset)*



Kaleidoscope *(New, includes random offset)*



Sparkle – red *(Previously "Red Step On", increased saturation, now includes random offset)*



Sparkle – green *(Previously "Green Step On", increased saturation, now includes random offset)*



Sparkle – blue *(Previously "Blue Step On", increased saturation, now includes random offset)*



Sparkle – yellow *(New, includes random offset)*



Sparkle – magenta *(New, includes random offset)*



Fade – red/white *(Previously "Red Fade", increased saturation, now includes offset)*



Fade – green/white *(Previously "Green Fade", increased saturation, now includes offset)*



Fade – blue/white *(Previously "Blue Fade", increased saturation, now includes offset)*



Fade – yellow/white *(New, includes offset)*



Fade – blue/orange *(New, includes offset)*



Emergency – blue *(New)*



Emergency – red/blue *(New)*



Warning *(New)*



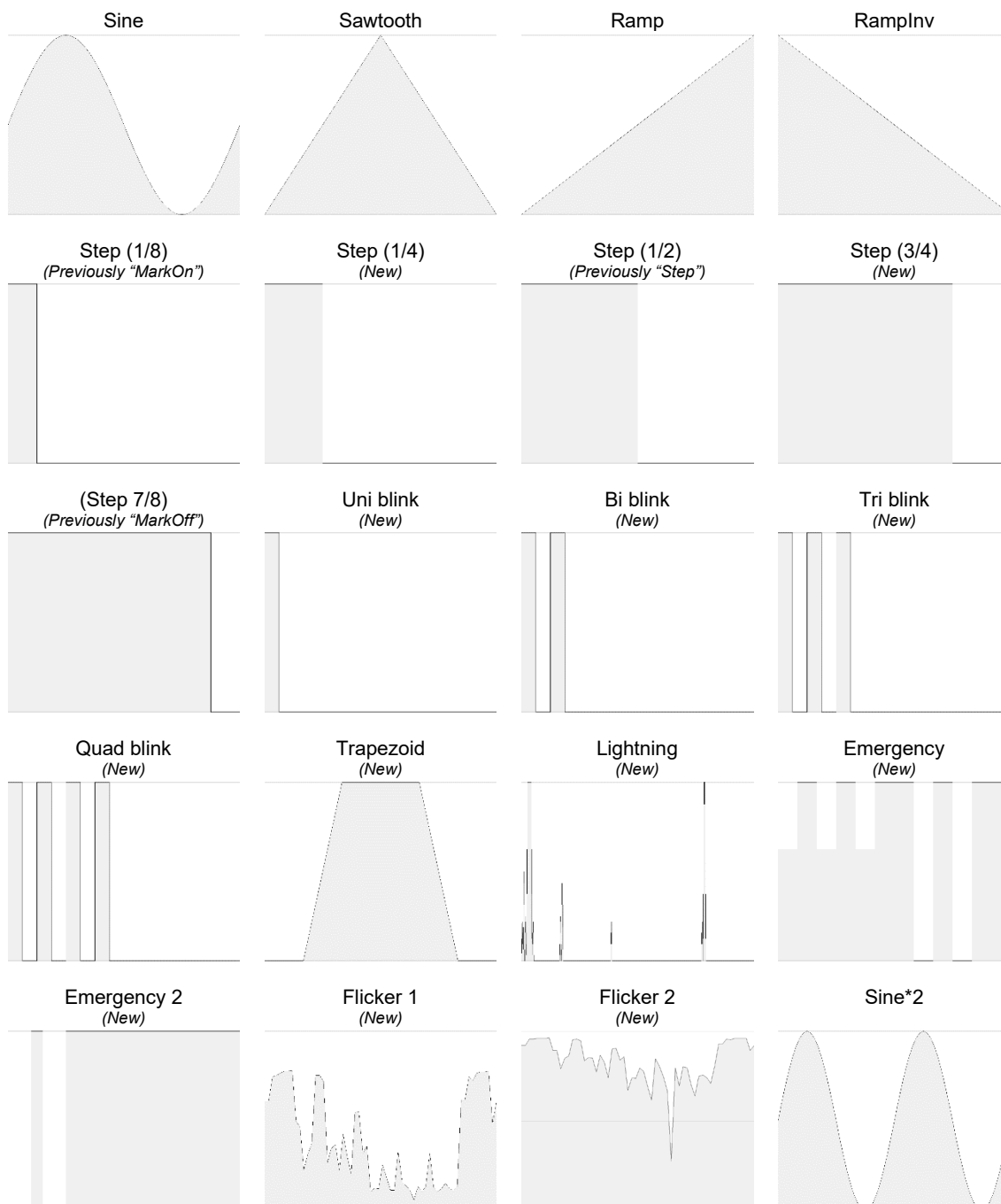
Fire *(New)*



Fireworks *(New)*



Waveform functions:



Enhancements and Bug Fixes

ZOS-5210	DMX Window now only displays “active” Universes (Universes with fixtures patched)
ZOS-6186	Significant performance improvements when redrawing LCDs on Solution Series & ORB Series
ZOS-7886	Fixed issue where the SETUP button required a repeat press to enter SETUP
ZOS-8549	Various performance improvements to MIDI Show Control triggering
ZOS-8551	Improved network connectivity and stability when physical connection is interrupted
ZOS-8579	Fixed rare and intermittent stability issue when reading or writing show data to FeRAM
ZOS-8589	Fixed issue where virtual playback fader levels weren’t being reset when loading showfiles, affecting chase triggers
ZOS-8590	Fixed issue where pressing GO on a released Playback could trigger Cue 2 rather than Cue 1
ZOS-8593	Fixed issue where Playbacks weren’t always taking into account intensity effects when deciding if a channel is on
ZOS-8594	Fixed issue where Solution MFks incorrectly switched function after typing the first digit of LOAD x ENTER syntax
ZOS-8598	Fixed issue where ZerOS wasn’t checking and, if necessary, updating the FLX touchscreen configuration file
ZOS-8599	Fixed issue when changing fixture selection while a Parameter Window was open
ZOS-8601	Fixed issue where RigSync could double-patch discovered fixtures
ZOS-8604	Fixed issue caused when a background process triggered a dialog request
ZOS-8610	Fixed issue where FLX S internal screen occasionally displayed fragmented text
ZOS-8611	Added support for additional hardware variants of SBCs
ZOS-8623	Spacebar now emulates the “button mode” of the Master Playback (FLX & Solution) or selected Playback (ORB)
ZOS-8624	Added “U” keyboard shortcut to switch touchscreen driver during calibration (when available)
ZOS-8637	Fixed issue when discovering RDM responders with no sub devices
ZOS-8662	Improved stability within Test Mode
ZOS-8664	Improved stability when deleting fixtures
ZOS-8674	“Auto Select” sensitivity of Channel Fader reduced
ZOS-8679	Improved stability when large showfiles are using greater than 50% of the available RAM
ZOS-8680	Fixed scaling issue when Remote App is in landscape
ZOS-8711	Fixed issue caused when deleting a Macro which is accessed via a UDK
ZOS-8712	Phantom ZerOS now displays a reduced list of Desk Types and stores each Desk Type’s showfile separately
ZOS-8714	Fixed issue where a Fixture’s mode could appear selected in the “Add Fixtures” window, but not be
ZOS-8736	Fixed issue where updating very large Cue Stacks could incorrectly trigger a debug
ZOS-8763	Fixed issue where using “Copy” on ZerOS Remote could result in ZerOS becoming unstable
ZOS-8771	Stability improvements to Remote App connections
ZOS-8783	Fixed issue where Position or Beam attribute delays on a cue could stop an effect from running correctly
ZOS-8793	Fixed issue where “Discover All” may not discover an RDM fixture which was previously manually deleted
ZOS-8799	Fixed issue where disabling RDM whilst patching (via prompt dialog) could crash
ZOS-8804	Various stability improvements
ZOS-8805	FLX range consoles now reset desktop layouts when loading showfiles from other consoles
ZOS-8808	Changing desktop UI changes to simpler, more visual UI
ZOS-8811	Background preparation work to support multi-lingual UI
ZOS-8817	Improvements to scrolling responsiveness and smoothness
ZOS-8820	Auto Effect Palettes can now automatically trigger Effect Offset Macros
ZOS-8831	Effects Waveforms tab references (within the parameter cells) have been shortened and simplified
ZOS-8844	Fixed issue where updates to Playback Name could be lost on reboot if no other settings were also changed
ZOS-8864	Fixed issue where ZerOS could become unstable if a fixture had greater than 50 Auto Colour Palettes
ZOS-8890	New “No Offset” Effect Offset Macro added to Effects Window. Effect Offset Macros can now horizontally scroll
ZOS-8905	Fixed issue where Tracking Backup could become unstable when cues are deleted
ZOS-8910	Fixed issue where Tracking Backup could display the incorrect Master IP address
ZOS-8919	Improved Tracking Backup synchronization and performance
ZOS-8931	Cue List window wasn’t correctly showing/hiding relevant fade times when cues were updated / deleted / inserted
ZOS-8933	Various improvements to ASCII showfile importing
ZOS-8946	Fixed issue caused by editing IP address of Tracking Backup at the same time as a backup device is found or lost
ZOS-8953	Flash synchronization speed during Tracking Backup significantly improved
ZOS-8963	Fixed issue where Solution consoles could become unstable within Add Fixtures
ZOS-8977	CAN communication support added to FLX hardware
ZOS-9028	GFT37 now included
ZOS-9032	Fixed issue which, in certain circumstances, could cause “unexplainable” instability within ZerOS
ZOS-9141	Fixed issue where changes to Default / Home / Max values could be lost on reboot
ZOS-9178	Fixed issue where LeapFrog 48&96 consoles could become unstable

Known issues

No known issues.

Software Update Instructions

Introduction

Please familiarise yourself with these update instructions before proceeding. Instructions must be followed accurately and in order. Deviations or omissions could render the desk unusable and require it to be returned to the factory for recovery.

If any difficulties are encountered at any point, or you are in doubt on any of the instructions below, then do not proceed any further with the update and contact Zero 88 for assistance.

The software installation process completely removes all data on the console, including any current show files. If the current show file is still required, **please ensure that backups are taken before proceeding with the update**. After completing the update, you may re-load your show if required.

When performing a software update it is important to ensure that the power supply to your desk is stable and reliable. Power loss during a software update can render your desk unusable.

Consoles running ZerOS 7.8.3 or later.

To perform the update:

- Download the software from the Zero 88 website (zero88.com/software/zeros)
- Unzip the download and save the .exe file onto a USB stick (don't put it inside any folders)
- Plug the USB stick into your console
- Press SETUP to enter the console's setup screen and choose "Load file" on the monitor
- Select the file from the list displayed on screen and follow the onscreen instructions
- Once the update is complete, remove the USB Memory Stick and reboot the desk

Once all the software is up to date, you can get on with enjoying the new features in the desk software. Zero 88 recommend printing these Release Notes and having them with you when operating the desk, as some functionality may have changed which is explained in these notes.

Consoles running ZerOS 7.8.2.39 or older.

To perform the update, you will need a USB Memory Stick, which will be erased and formatted as part of the process. Make sure you first backup any data on the USB Memory Stick that you wish to keep.

Some types of USB Memory Stick may not be bootable by the desk. If you experience any difficulties then try using the Zero 88 USB Memory Stick supplied with the desk.

The update will reinstall all the software on the desk. An .exe file (USB Install Creator application) is run on a Windows PC to create a bootable USB Memory Stick.

Download the USB Install Creator application from the Zero 88 website (<http://www.zero88.com/software/zeros>) and, after unzipping, run it. Insert a USB Memory Stick into your Windows PC when prompted and follow the on screen instructions of the USB Install Creator. After a few minutes, the install creator will instruct you to remove the USB Memory Stick, which now contains the update for the desk.

Remove the USB Memory Stick from your PC and insert it in one of the desks USB ports. Power on the desk and the desk will automatically boot into the software update application. It is recommended that you have a monitor, keyboard and mouse connected to the desk to perform this update. Press the [Install ZerOS] button on the monitor and the software will be installed.

Once the update is complete, you can remove the USB Memory Stick and reboot the desk. At this point your desk contains the latest software.