

ZerOS Software Release (Public Release)

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Previous Version:	7.4.0	Release Date:	3 rd May 2012

ZerOS 7.6.0 Software Release

Release 7.6.0 of ZerOS is a major new software release for all ORB Series, Solution Series, FROG2 and Leapfrog 48 & 96 consoles. These release notes describe the new features and bug fixes that have been implemented in the ZerOS desk software between versions 7.4.0 and 7.6.0.

Products Affected

- ✓ ORB Series Consoles
- ✓ Solution Series Consoles
- ✓ Phantom ZerOS (offline software)
- ✓ FROG 2
- ✓ Leap Frog 48 & 96

Compatibility

Users should check any 'Cue Macros' from past showfiles due to ZOS-4137, which changes how 'Cue Macros' functions. 'Cue Macros' now always relate to cue stacks and not pages of playbacks.

Update Instructions

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

The software installation process completely removes all data on both the console and the USB memory stick. If the current show file is still required, it must be saved and stored somewhere other than the console or USB memory stick being used to perform the software update.

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.

If you are in doubt on any of the instructions below please contact your Zero 88 dealer or Zero 88 directly.

New Features & Enhancements

Key Features

ZOS-2470 ENTER ENTER syntax

The syntax ENTER ENTER is now implemented as a quick method to select all currently active channels, regardless of their source. This is a useful way to select the whole state on stage, prior to adjusting it.

ZOS-3757 Photo Copy

It is now possible to Copy (and Move) using Smart Tag and Cue Only. By doing this, cues are copied at their relative outputs, rather than their programmed values.

If SmartTag is enabled when a Copy or Move command is initiated, the copied/moved cues will output the same as if they were in their original position in the stack (PhotoCopy).

If CueOnly is enabled when a Copy or Move command is initiated, cues after the copied cue (and after the original position of moved cues) will output the same as before the copy/move.

ZOS-3850 Quick Lock

It is now possible to lock ZerOS consoles quickly by pushing the left arrow, right arrow and ENTER together. After entering the lock code, the desk will lock. To unlock it, push the 'Unlock' button and enter the lock code again.

ZOS-4155 Added support for Art-Net devices (ArtAddress)

A new tab within 'SETUP > Network' called 'Devices' allows configuration of Art-Net devices such as the EtherN.8 RDM and EtherN.2 RDM. From here, you can set the device labels, subnets and Universe assignments.

ZOS-4502 Added support for 8 Universe unlock dongle

ORB Series consoles can now be upgraded to output 8 universes of DMX via Art-Net and sACN with the addition of the '8 Universe Console Upgrade Dongle' (order code 00-888-00).

Due to a restriction in the Art-Net protocol, devices outputting more than 4 universes of DMX are required to inhabit multiple IP addresses. ZerOS overcomes this with the creation of multiple 'Devices' on the Art-Net network. The Art-Net tab in Setup now offers by default one 4 universe Device, with an option to create additional Devices if required.

Each device needs the Net and Subnet defined, as well as the Port for each of the 4 universes. For each port you must define the Art-Net port and the desk universe you wish to be output from that port.

Cue Stacks

- ZOS-3842 Added countdown timer to the fade progress bar**
When playing back a cue, ZerOS now displays the time elapsed and time remaining (including fade, delay and wait times) over the progress bar.
- ZOS-3847 Added 'Record GO' syntax for cue stacks**
Pressing 'Record' and the 'GO' button of a cue stack now records the next available cue into that stack, using the current programmer contents.
- ZOS-3860 Added ability to add macros without a USB Keyboard**
Adding a cue macro to a cue can now be done without the use of an external keyboard, due to an onscreen keyboard being included in the 'macros' button within the Cue Setup window
- ZOS-4023 'Next cue' stays vertically centred in cue stack window**
When playing through a cue stack, the 'Next' cue now remains vertically centred in the cue stack window, so the upcoming cues are always visible.
- ZOS-4350 Added option to turn on/off 'stomping'**
In the 'Stack Setup' window you can now choose to turn on or off 'stomping'. Stomping occurs when a cue stack takes control of all the channels from another cue stack, and so releases that cue stack.
- ZOS-4989 Changed 'collapse' wording in the Fixture Levels 'Window Setup' popup**
The term 'collapsed' has been changed to 'hidden'
- ZOS-5045 Clicking cells in 'Fixture Levels' doesn't change 'next'**
Times and intensities can now be changed in the 'Fixture Levels' window without affecting the 'next' cue (unlike the Cue List window).
- ZOS-5057 Added ability to name stack pages on ORB Series**
You can now name page stacks (displayed when pressing shift+page) by using syntax PAGE STACK n NAME or NAME PAGE STACK n ENTER

Submasters

- ZOS-4131 'Solo' now solos Cue Stacks as well as Submasters**
Selecting 'Solo' on a submaster now temporarily turns all intensity channels from Submasters and Cues to 0%.
- ZOS-4903 Improved ability to make RGB submasters**
It's now possible to record three separate submasters to individually control Red, Green and Blue of the same fixture.
- ZOS-4979 Added syntax for moving a cue to a submaster**
Syntax added for 'CUE x MOVE TO SUB y', 'CUE x COPY TO SUB y' and 'CUE x RECORD <FLASH>'.

Release

- ZOS-4350 Added option to turn on/off 'stomping'**
See issue details under 'Cue Stack' heading
- ZOS-4978 Added RELEASE+SUB syntax to release all submasters**
This function releases all active submasters.
- ZOS-4990 Added RELEASE+CUE or RELEASE+STACK syntax to release all cue stacks**
These functions release all active cue stacks. This is the equivalent to how SHIFT+RELEASE worked pre 7.6.
- ZOS-4991 Changed SHIFT+RELEASE to release all UDKs, Submasters and Cue Stacks**
The functionality of SHIFT+RELEASE has been changed to release everything apart from information in the programmer and parked values.
- ZOS-4992 When holding RELEASE, new options appear on Syntax Keys**
When holding 'RELEASE', ORB Series consoles now display 'Cue Stacks', 'Subs', 'UDKs', 'All' and 'Parked' on the syntax keys for quick access to release certain areas of the console.
- ZOS-5043 Added syntax 'SUB x THRU y RELEASE'**
This function releases all submasters between 'x' and 'y'

Encoder Wheels

ZOS-4854 Wheel Button Pushes (ORB Series)

The default action for Wheel button pushes on the ORB Series has been changed to a double push. This can be adjusted in SETUP > DESK SETUP > Encoder Press Mode.

ZOS-4856 Timeout option added to wheel push syntax

An encoder timeout option has been added to elongate the blocked time between the encoder button pushes and subsequent wheel movements.

ZOS-4860 Shifted Wheel Fan Modes

It is now possible to adjust the wheel fan modes without entering the attribute setup window on ORB Series consoles. Hold down the attribute key for 2 seconds and the syntax keys will offer the various shifted wheel modes as syntax options.

Patch & Fixture Library

ZOS-2780 'Change Type' in edit fixtures maintains patch data if possible

When changing a fixture type in 'Edit Fixtures', if the patch allows then the patch data is retained.

ZOS-3976 List all fixture modes in Patch Wizard

When first selecting a fixture in the patch wizard, ZerOS now lists all the modes available, and how many channels each one takes.

ZOS-4749 Added 'Cancel' option in 'Duplicate DMX Addresses' popup

At the end of the patch wizard, if there are duplicated DMX addresses, ZerOS now adds a 'cancel' option to the popup so that the user can go back and change the settings within the patch wizard.

ZOS-4824 New warning message about duplicate fixture numbers

At the end of the patch wizard, if there are duplicated fixture numbers, ZerOS creates a warning message with the options 'Create Duplicates', 'Delete Original Fixtures' and 'Cancel'.

ZOS-5095 Updated Fixture library included within ZerOS

Release 25 of the Zero 88 Fixture Library is now included within ZerOS. This release contains 3220 fixtures from 199 different manufactures. For more information, please visit www.zero88.com/software/library

Record & Update Window

- ZOS-3839 Record Options window now only show on Desktop 1**
When pressing Record, the Record Options window no longer obscures the windows on other desktops (such as palettes window).
- ZOS-4022 Added 'All Sources' and 'Selected Stack' buttons in Update window**
When updating, there are now options to update all sources or just the selected cue stack. Default is 'Selected Stack'. This is useful when using the syntax UPDATE ENTER. 'Syntax Update Cue x Enter' or 'Update Sub y Enter' can still be used to specify what to update.
- ZOS-4911 Update now selects the current cue if no other sources are available**
If no sources are available, Update now selects the currently outputting cue of the selected stack as the location.

General

- ZOS-3838 Direct channel selection from Output Window**
It is now possible to select fixtures from directly within the Output Window. Clicking on a channel number or level will select that fixture, adding an 'and 4' to the command line. Clicking again will add an 'except 4'. Using this method, it is possible to alter the fixture selection from a touchscreen, allowing you to adjust the selection and palettes for playback, without using the console surface.
- ZOS-4319 MFF Window can now be opened with SHIFT + Fader Function**
The Multi Function Fader Window on the ORB XF can now be opened using the shortcut SHIFT + Fader Function
- ZOS-4695 Improved skin to display selected channels in Output Window**
Selected channels in the output window are now displayed with a curved box around them.
- ZOS-4733 Performance Improvements applied across ZerOS**
Speed and stability improvements when ZerOS draws and redraws windows apply across the operating system.
- ZOS-4091 Network Overview Tab**
In the Network tab of Setup, a new tab has been added to display an overview of the current network settings. Each enabled protocol is shown, together with the current IP address for that protocol, and any other relevant settings.

Bug Fixes

ZOS-1905	Desk Software loses focus when remote in use
ZOS-2897	Problems existed when using the REMOVE function in Record Options
ZOS-2929	Park status doesn't get recalled on reboot
ZOS-3080	Update selects multiple sources when two cue stacks are active
ZOS-3193	Altered some Tracking Backup functions
ZOS-3554	When text is set to 'small', ZerOS ignores text alignment setting
ZOS-3756	When a group is selected; Next / Previous should cycle through the group
ZOS-3826	UPDATE cue isn't always playing back cue or clearing programmer
ZOS-3827	Record (touch) filters as if you've done RECORD POSITION n ENTER
ZOS-3831	Command syntax no longer adjusts the wheels to position
ZOS-3833	Default for intensity will now display as 0%
ZOS-3840	'Go Minus' uses the fade time of the cue you're going into
ZOS-3898	Updating UDK resets fade time
ZOS-4038	Playback screen on remote doesn't work for ORB XF
ZOS-4080	When Master comes back online, it waits until after sync to output DMX
ZOS-4081	Increased the speed of synchronisation during tracking backup
ZOS-4083	'Take Control' on backup desk now puts the Master into backup mode
ZOS-4085	Using Shift+Record disables Smart Tag
ZOS-4105	Macros don't accept point cues in trigger syntaxes
ZOS-4109	Effects sometimes reloaded incorrectly for RGB/CMY channels
ZOS-4112	Recording multiple cues using "THRU" caused odd tracking
ZOS-4114	Tracking Backup takeover is now 5 seconds
ZOS-4115	Current cue is now displayed on backup desk
ZOS-4132	VIEW 0 didn't remain on UDKs after a reboot
ZOS-4134	Trigger macros now trigger at 100%
ZOS-4135	Move To and Copy To no longer require stack to be defined
ZOS-4136	Move To and Copy To now display correctly in the command line
ZOS-4137	All 'Cue Macros' now relate to stacks, rather than playbacks
ZOS-4139	Change Fixtures now take you to the end of the Wizard, not the start
ZOS-4148	Desktop monitor layout sometimes reset on reboot
ZOS-4149	Cue Times sometimes didn't get stored when adjusted on screen
ZOS-4166	Pushing GO on a released cue stack no releases highlighted next cue
ZOS-4168	Sometimes the + and - keys wouldn't function on Solution consoles
ZOS-4169	Changing attribute type didn't always change the LCDs
ZOS-4172	Non Tracking Mode ignored submasters
ZOS-4173	Non Tracking Mode now uses Smart Tag for all records and updates
ZOS-4175	Recording a cue caused a save to flash every time with a large stack
ZOS-4176	Crash when updating intensity while cue stack is paused
ZOS-4360	Changing Desktops put 'Desktop x' in the command line unnecessarily
ZOS-4379	Using middle button of trackball no longer switched the wheels to Position
ZOS-4396	Pressing middle button of trackball switches attribute selection to position.
ZOS-4383	Loading a show into a Solution obtains wrong Ethernet settings
ZOS-4410	Effects no longer move on dark by default
ZOS-4555	Changing Universe shouldn't remove cursor from DMX Channel textbox

ZOS-4558	Changing desktops on Solution is very slow
ZOS-4582	'Next memory' doesn't show on Solution LCD
ZOS-4586	Loading shows from 7.3.0 restored incorrect ArtNet settings
ZOS-4595	Debug files now have unique names
ZOS-4605	Changing view while dialog or popup menu is open crashes console
ZOS-4657	Updating values programmed into submaster don't update correctly
ZOS-4716	Cue 2/5 SETUP displays syntax error
ZOS-4717	'Load Cue 1 Enter' should display channels in red
ZOS-4722	Change colours of loading and install screens to match new skins
ZOS-4732	Intensities are hidden by Fixture Information in Output Window
ZOS-4737	Stack Setup drop down menus behaving incorrectly
ZOS-4740	Fixture Information shouldn't show lines for dimmer channels
ZOS-4743	Syntax PAGE [Channels] 2 ENTER had an offset by 1 error
ZOS-4744	Recording Submasters in Blind, using flash button, flashes output
ZOS-4750	Colours on encoders display wrong in command line
ZOS-4752	Fade Times not legible on Solution
ZOS-4760	Default intensities are ignored
ZOS-4800	Improved the import of ASCII show files from ETC Express consoles
ZOS-4810	Fixture images with an odd width (pixels) display incorrectly
ZOS-4811	Deleting fixtures via syntax doesn't work
ZOS-4812	Default Values being displayed incorrectly
ZOS-4821	Opening the preview window on 'Programming' desktop crashes
ZOS-4826	'Loading Please Wait' screen on ORB during operation
ZOS-4843	Windows are slow to update with large amounts of data
ZOS-4844	Major speed improvements when dealing with large show files
ZOS-4846	Loading large showfiles (~3000 cues) is significantly faster
ZOS-4847	Cannot save show files over ~3000 cues
ZOS-4864	Capture not connecting
ZOS-4865	Solution channel LEDs don't light up when being selected
ZOS-4877	Custom fixture files don't get saved in library on reboot
ZOS-4881	After updating the current cue, it doesn't rerun the cue
ZOS-4883	Improved the import of ASCII show files from Compulite consoles
ZOS-4884	Leap Frog colour shading is wrong with ORB skin applied
ZOS-4888	Remove the assumption that shutter = 0 = dark
ZOS-4889	Effects sometimes become out of sync over a long time
ZOS-4898	Deleting memory stack doesn't reset first memory to 1
ZOS-4899	Co Processor 1 takes too long to install
ZOS-4918	Co Processor 1 Firmware crashes (EZ80)
ZOS-4931	Showfile crash within Phantom ZerOS
ZOS-4935	Wheel Edit movements show CMY when actually set to RGB
ZOS-4938	Updating UDKs takes value to 0% and replays fade time
ZOS-4945	Blind Updating in Non-Tracking mode doesn't work
ZOS-4966	Switching between views on UDKs is too slow
ZOS-4967	Playbacks trigger straight to 100% on ORB XF
ZOS-4970	Trackball using active attribute wheel mode instead of always position
ZOS-4976	Values under 5% don't always get update due to old fader tolerance code
ZOS-4981	RECORD snapshot to a sub only takes programmer data in non-tracking

ZOS-4982	'UPDATE CUE 1 THRU n ENTER' adds extraneous data in non-tracking
ZOS-4983	'UPDATE x THRU y' in non-tracking mode records output of console
ZOS-4984	'Clear Fixture' doesn't obey the active time fader
ZOS-4985	LED stays on when SUBs set to Release=No are released by syntax
ZOS-4986	PARK values get recorded in non-tracking mode
ZOS-4987	When rebooting, the selected stack is reset to 1
ZOS-4988	When recalling Views, window order doesn't stay consistent
ZOS-4994	'Add Fixture' on Solution doesn't show available modes when using MFKs
ZOS-5005	Record window slowdown
ZOS-5012	MFK 'backspace' key doesn't always work (Solution Series)
ZOS-5034	When editing submaster with snapshot, ZerOS releases submaster
ZOS-5035	'Blank' button 'GO' option doesn't work correctly
ZOS-5037	Output Window shows inverted intensities incorrectly
ZOS-5038	GO button on playback screen on remote doesn't work for ORB XF
ZOS-5076	'Fixture Levels' window may crash if fixture without an intensity is patched
ZOS-5079	Error when updating part one of a multi-part cue
ZOS-5206	A crash occurs when submaster step is pressed during save to flash
ZOS-5213	DMX value to Percentage rounding errors
ZOS-5214	Tracking Issues during playback on showfiles over ~3000 cues
ZOS-5215	LCDs lock on showfiles over ~3000 cues
ZOS-5219	DMX data occasionally doesn't get refreshed on output
ZOS-5230	Macros running or cues being updated during save crashes console

Known Issues

After running the USB Installer, Microsoft Windows 7 might prompt that "This program might not have installed correctly". Users should click "This program installed correctly" to close this window.

Software Update Instructions

Introduction

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.

Update files downloaded from the Zero 88 website may be zipped. These need to be unzipped first in order to extract the appropriate files to perform the updates. If you experience problems using the built-in zip file functions of Windows XP / Vista, then try Winzip (www.winzip.com).

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, then do not proceed any further with the update, and contact Zero 88 for assistance.

If you are in doubt on any of the instructions below please contact your Zero 88 dealer or Zero 88 directly.

Once all the software is up to date you can get on with enjoying the new features in the desk software. Full details of these will be found in the Release Notes, also available from the support website. 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.

The update process will wipe the desk including any current show files so please ensure that backups are taken before proceeding with the update. After completing the update you may re-load your show if required.

Installing the software (USB)

ORB Series, Solution Series, Leap Frog 48 & 96 and FROG2 (newer hardware)

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, so if you experience any difficulties then re-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 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 run it. Insert a USB Memory Stick into your

PC and click through the steps 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 Desk OS] button on the monitor and the software will be installed.

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

Installing the software (CD)

FROG 2 – Any Hardware

To perform the update, you will need a PC with a CD-Writer and a blank recordable CD.

This update will reinstall all the software on the desk. It is recommended that you have a monitor, keyboard and mouse connected to the desk to perform this update.

Reset the desk to clear the current show (Setup -> Clear Options -> Reset Desk).
Remove any USB Memory Sticks connected to the desk.

Download the ZerOS Operating System Install CD Image (file with .iso extension) from the Zero 88 website (<http://www.zero88.com/software/zeros>). The .iso image should be burned as an image onto a CD, not placed on the CD as a file. Details will vary depending on your CD burning software. We recommend using Deepburner, which can be found at www.deepburner.com. In Nero Burning Rom 6, the option needed is under Recorder -> Burn Image.

Remove the CD from your PC and put it in the drive in the desk. Power on the desk and the desk will automatically boot into the software update application. Use the mouse to press the [Install Desk OS] button on the monitor and the software will be installed.

Once the update is complete, you will be instructed to reboot the desk and remove the CD. At this point your desk contains the latest software.

Slave Updates

The Slave Processors in the desk may from time to time require updating. If an update is required, then the desk will inform you of this at start-up. To perform the update, select the slave required and perform the update. After each update the desk will require a reboot.

You can also manually check for slave updates at any time. Press the SETUP key, and then select [Files] and [Desk Information]. If slave updates are required, the relevant software versions will be displayed in red on this screen. To perform the updates, press and hold down the SHIFT key and press the CLEAR key to bring up the Slave Update Window. Select the slave required and perform the update. After each update the desk will require a reboot.