



Lighting  
Operating  
System

## FW 1.2

F I R M W A R E   R E L E A S E   N O T E S  
&   K N O W N   L I M I T A T I O N S

05/2021

# Release Notes

**New Firmware Version: LiOS 1.2.1**

**Replacing Firmware Version: LiOS 1.0.6**

In this major release all known limitations of the previous firmware have been resolved. Further, previously missing features are being introduced:

- Control option Streaming ACN (sACN) implemented.
- DMX/RDM Gateway function implemented. Any Orbiter can now act as a transformer from Ethernet based control protocols such as Art-Net and sACN towards Output of 5 Pin DMX for daisy chaining of multiple units. RDM Messages are being sent and received bi-directional as well. This eliminates the need for external or third-party devices for control protocol conversion.
- Support of various additional RDM PIDs added.
- Addition of various Art-Net Messages such as ArtIpProg and ArtSync
- Implementation of USB-C interface support for the ARRI ALSM service tool, now also for Windows operating systems
- Various updates and enhancements of the graphical user interface across the entire LiOS system for a better and simplified user experience
- Various improvements for the integrated web page control option
- Overall system stability improvements

Further, various issues and bugs have been resolved to make the Orbiter more reliable.

## Known Limitations

Issue	User Impact / Explanations
sACN: Data packet options not available	The fixture can currently only be used in broadcast data setting
High-Speed Mode: Dim values below 5% not stable	Low end slow dimming fades in High-Speed Mode need to be avoided
DMX/RDM Gateway: Change of DMX Mode causes short time data loss	Avoid changing the DMX Mode during live operation (show or recording)
sACN: No data reception after change of Network Mode	Change of Network modes needs to be followed by a power cycle of the fixture
Setting illegal IP-Adresses may cause instability of network interface (e.g. X.X.X.0 or X.X.X.255)	Network Interface becomes unusable. The fixture can still be used via the control panel. The only workaround is a factory reset on the fixture.

**ALSM:** ARRI Lighting Software Manager  
PC application for updating firmware and setting attributes of ARRI LED fixtures.

**DMX:** Communication protocol designed for lighting fixtures in the film, TV and live entertainment markets

**RDM:** Remote Device Management  
Two-way communication protocol designed to read and set attributes of a light fixture

**NOTE:** If using a USB flash drive or SD card to update your Orbiter, please use a USB drive that is USB 1.0 or 2.0 standard and is formatted to FAT or FAT32. The update file must be in the root directory of the drive.

Read and obey all warnings and notices in the Orbiter user manual.  
Read and follow the Orbiter firmware update guide.

## Service

If you have problems with your fixture or the update, please contact an ARRI service center.

Europe: [service-lighting@arri.de](mailto:service-lighting@arri.de)  
Americas: [service-lighting@arri.com](mailto:service-lighting@arri.com)  
Asia: [service @arriasia.hk](mailto:service@arriasia.hk)  
China: [service@arri.cn](mailto:service@arri.cn)  
Australia: [service-lighting@arri.com.au](mailto:service-lighting@arri.com.au)

## Helpful Website



[www.arri.com/lios](http://www.arri.com/lios)