

ARTHUR RJLED2 FIRMWARE HISTORY

After updating, refresh your web page and check that you have the following text at the bottom of the page:

ROBERT JULIAT - RJ LED 2 - Version X.XX

It is highly recommended to do a Factory Reset after the update. This can be done from the Web Page or RDM. It should also be noted that user settings will be lost.

V5.02 build 3673

- Fixed issue when you select Without PWM impossible to exit from the menu

V5.01 build 3672

- Changing the calibration tolerance thresholds in the selftest
- Bootloader mode protection in the Expert section

V5.00 build 3653

CRA Compliance

- Secure bootloader for CRP2

Implementation

- Monitoring Software License
- E1.37-4 FTC Protocol (File Upload/Download and Firmware Update)

Modifications/Improvements

- Display Corrections
- Fixed self-test mode for production test

V4.05 build 2515

- UI and Web page improvement

V4.03 build 2423

- General upgrade to add new features and improvements developed on Sully White (V3.00 to V4.01)
- USB charger
- Change in fans enumeration

V2.10 build 1424

- Fixed calibration issue while doing a selftest

V2.09 build 1420

- Screen refresh after I2C connection error.
- Modification of fans regulation
- Modification of home screen error message.
- Optimisation of firmware update.
- Modification of Art-Net/Sacn mode time out.

V2.07 build 1416

- Added top control fader rotating sense.

V2.06 build 1414

- Added management of top control fader.

V2.05 build 1411 16/06/2021

- Minor modification in Cooling mode parameter for the normal mode

V2.05 build 1408

- Added Led Wireless test in the autotest (RDM+Screen)

V2.05 build 1407

- Modification how the Node function is displayed in the web page

V2.05 build 1402

- Added Node function 5function + Screen menu) => allow to send an ARTNET/SACN data stream on a DMX port.
- Added selection button for the node mode in the Web Page.

Corrections/Improvements:

- Fan mode selection OK
- Modification AUTOTEST/POT => the maximum authorized for the minimum value is changed from 63500 to 62000
- Modification: Not Calibrate by Not Calibrated

V2.04

- Upgrade to Sully series firmware 2.20 1371 (see history page 3 to 5)

V1.00 build 97

- Original Version
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V2.2 27/04/21

Corrections/Improvements:

RDM:

- Modification SLOT_INFO PID to be compatible with Zero88 consoles

Web Page:

- Fixed error when uploading firmware with Web Page in DHCP (reload a page with 0.0.0.0)

V2.107 12/04/2021

New Features:

Web Page:

- Added check user function for description change via web page

V2.106 06/04/2021

Corrections/Improvements:

RDM:

- Redesign of RDM code (Get/Set) for optimization
- Added in Queued_Message the management of the parameters changes (used by ETC) allowing to update the PID if a modification is made via the web page or the display.
- Modification in the autotest (exit from driver test mode)

Error Management:

- Improved error handling (if DAC driver has a fault the system is shut down immediately)

V2.10 23/03/2021

New Features:

Web Page:

- Visual redesign with RJ chart and dark background
- Addition of feedback in SSI
- Added features and password for access to expert menu "1280".
- Creation of a structure called dataWEB to manage the modifications in long processing
- Automatic reconnection to the page after modification on the same network or after a restart

Watchdog :

- Task: restart the network task in case of problems (loss in while 1 or web page loading too long)
- PHY: restart the phy and the network task in case of random reset (electromagnetic discharge ESD)
- Modification of the watchdogs reinitialization delays following ESD tests and web page tests (minimum delay after laboratory tests: 21 sec -> choice 25 sec)

V2.0 18/01/2021 – MAJOR RELEASE

New Features:

DMX:

- Added: control of the size of the DMX packet (sometimes a non-compliant packet passed the UART error tests producing a brief flash)
- Change in the number of DMX slots taken into account (from 7 to 2 start code included)

RDM:

- Added: PID Command_Lock to allow or not different functions in the Control Mode such as:
 - RDM ON/OFF
- Added: PIDs PERFORM_SELFTEST and SELF_TEST_DESCRIPTION to test the device (8 Tests available: Temp Sensors/Power Supply/Fans/Driver/ Signal Leds Red/Signal Leds Green/Signal Leds Blue/ All Tests) a SELFTEST_RESULT Manufacturer PID was created to view the results.
- Added: Manufacturer PID CURRENT_IP_ADDRESS and CURRENT_MASK to easily find the IP address as well as the sub-network mask.
- It is possible to change the serial number via RDM (special procedure) for Service purpose.
- Added a Manufacturer PID CALIBRATION DRIVER PID for driver calibration.
- Added a Manufacturer PID to adjust and display the CUSTOM_RESPONSE_TIME
- Added a Manufacturer PID to address ARTNET and SACN universes
- Added a Manufacturer PID to select the type of Data (DMX/SACN/ARTNET/STANDALONE)
- Added a Manufacturer PID to select the type of DMX_HOLD (HOLD LAST/RESET DMX/STANDALONE)
- Added PIDs for IPV4 E1.37-2 settings.
- Added PID STATUS_MESSAGES
- Added PID MODULATION_FREQUENCY
- Added PID MAXIMUM_LEVEL
- Adding PID DISPLAY_LEVEL

Web Page:

- The possibility of addressing ARTNET and SACN universes

Error Management:

- New PSU error detection management (if an error is detected the projector stays off until the next restart). Changes in error and warning criteria.
- New fan error management (if the speed is less than 80% of the nominal speed or if it drops to 0). Reset the errors if they are temporary. If they last more than 60s it becomes final until the fixture restarts.
- Management of the CPU card Led (at start if OK the Led goes green for 2 minutes then off otherwise the Led goes red and stays always on)
- Checking the format of the serial number. In case of error a message is sent by RDM through STATUS_MESSAGES and shown on the display (ARTHUR)

Network:

- Static/dynamic IP management: If switched to DHCP mode, the static IP address (and sub-network mask) is saved and displayed again if returned to static IP.

Corrections/Improvements:

- Calibration optimization (calibration time decreases from 80s to about 10s)
- Change for RDM transport: RDM thru DMX remains functional in DMX, SACN, STANDALONE modes
- EEPROM Restoration Security: In the event of a continuous start loop due to a corruption in the function fixture_workmode, DMX is selected by default.
- DMX_HOLD function
- Output Response Time is on Medium per default value.
- Change the default fixture type 065A instead of 0650 to test per default the local potentiometer version.

RDM:

- Minor changes for displayed text in RDM
- PID Sensors
- Change: Fans description
- Change: Sensor description: ex 48V - PSU instead of 48V - SENSOR
- RDM was not working in Standalone mode.
- Factory Reset now works.

SACN:

- Unable to address a universe beyond 255.
- Possible shutdown if a RDM controller is present on the DMX input.

ARTNET:

- Possible shutdown if a RDM controller is present on the DMX input.
- ARTNET: If ARTNET RDM is on then RDM on DMX line is automatically deactivated (it automatically reactivates if the network is disconnected)
- Affichage version soft dans ARTNET NODE POLL REPLY

Network:

- Restores the stored IP address when switching from an auto IP address without the presence of a DHCP server (IP:0.0.0.0)

Error management:

- Adjusting the minimum speed of the CPU fan to avoid an error.
- The fan operation range has been revised (now takes into account the manufacturer characteristics for max speed and takes into account RJ parameters for min speed depending on the mode of ventilation)
- Solved issue for the Driver 115W Test mode, change driver management to 1 channel mode.
- Change: PSU voltage errors management
 - Error according to min/max threshold (existed before for min but was too low and did not exist for maximum)