

FIRMWARE 0.9B

RELEASE NOTES



SYSTEM IMPROVEMENTS

- Greatly improved boot times
- Greatly improved mode change times (i.e. switching between DMX and Ethernet modes)
- Overall system speed improvements
- New Bootloader for firmware updates (smaller file, faster performance) Critical Note: The new Bootloader v1.0 is mandatory. Firmware 0.9b cannot be installed with earlier BL versions on the fixture, the Bootloader must be updated first. But after you've updated the bootloader a user can downgrade to any firmware version you wish.
- Independent Manual mode vs Data Input state (aka: can set a No-Data look)
- Bluetooth response (starCTRL mode) has been improved.
- Many new Advanced Routing options (see page 2)

COLOR ENGINE

- Improved low-end dimming
- 10000K CCT output is now accurate at Max CCT.

NETWORKING

- sACN implementation now supports LTP (Latest Takes Precedence) merging, which allows two control devices to send sACN at the same priority (i.e. a Lighting Console and Media Server controlling different parameters of the same lights at the same time)
- Full sACN universe support 1-63999
- Full ArtNet4 universe support 0-32767 (15 universe limit remains for Broadcast)
- Improved power-loss/data-loss recovery performance
- Assignable sACN Universe Input/Output in Advanced Routing modes
- Improved DHCP performance
- Improved Failover IP performance (fixtures fail to unique IPs in failover range)
- Improved Artpoll behavior (will not reply before obtaining a valid IP address)
- **New to 0.9b firmware:** Added Highest Takes Precedence Merging to sACN
- **New to 0.9b firmware:** New sACN Merge menu under Ethernet Settings with options for: OFF, Highest, Latest



WIRELESS DMX

- All RR and R2 fixtures can now act as a CRMX transmitter
- Wireless Status LED now follows TimoTwo universe color when in RX mode
- Wireless Status LED can now be assigned a universe color when in TX mode

ADVANCED ROUTING: 7 NEW MODES

These are new signal routing options that allow all RR-R2 fixtures to bridge a variety of wired and wireless lighting protocols within the fixture itself. Whether you need an ethernet-to-dmx node, a wireless TX or wireless RX to any output Quasar Science has you covered.

ArtNet -> DMX: (aka NodeMode) This takes wired ArtNet input and converts to wired DMX Out from any available ArtNet universe.

Artnet -> CRMX*: The RR-R2 can take wired ArtNet in and transmit Wireless DMX out from any available ArtNet universe. (i.e. the fixture can follow Uni 1 but transmit Uni 2 as Wireless DMX)

sACN -> DMX: (aka NodeMode): This takes wired sACN input and converts to wired DMX Out from any available sACN universe.

sACN -> CRMX*: The RR-R2 can take wired sACN in and transmit Wireless DMX from any available sACN universe. (i.e. the fixture can follow Uni 1 but transmit Uni 2 as Wireless DMX)

CRMX -> DMX: The RR-R2 can be linked as a CRMX Receiver and pass the incoming Wireless DMX signal to its wired DMX output.

BT -> DMX: The RR-R2 can take data from a bluetooth connection (i.e. starCTRL, Blackout, Luminair) and pass that signal to the wired DMX output port.

WiFi -> DMX: The RR-R2 can client into a WiFi network and accept ArtNet-over-WiFi (from a phone, tablet or lighting console) and pass that signal to the wired DMX output port.

*Only RR fixtures maintain the ability to daisy chain wired ethernet connections when acting as a Wireless TX since their ports are a 2-port network switch. R2 output ports are DMX only and not active in this mode.



ISSUES FIXED FROM 0.9A

- ✔ Advanced Routing [BluetoothDMX] flashed the wrong Status LED when there was no BLE Connection established.
- ✔ The BLUE LED exhibited about 20% of its total output in any mode that used the Absolute Hue color engine (Manual mode, Manual FX, starCTRL and certain DMX Profiles). Profiles not affected: RGB, XY and VRGB profiles.
- ✔ Affected sACN LTP merging: When a higher priority controller fell off the network the fixture would not listen to the “next highest” sACN priority unless it was 100 or higher.
- ✔ Built-in Rainbow Effect did not draw correctly on RR models.
- ✔ When Wireless DMX was set to OFF, the TimoTwo chip still impacted overall CPU performance.

KNOWN ISSUES

- Reset WiFi menu option does not forget the currently connected WiFi network when in Client mode. Use Reset to Defaults in the Config Menu instead.
- The WiFi Info Display does not always show the Client SSID in the Wireless Settings Menu. Use the WiFi Status Menu. Use the WiFi Status Screen too see current Client SSID.
- Must update TimoTwo firmware via USB-C to v1.0.7.2 before you can connect to the fixture using Lumenradio’s CRMX Toolbox app.
- With Advanced Routing [CRMX -> DMX] a change of DMX Profile does not update the light output until a dmx value change is sent to the fixtures.