

FIRMWARE 0.9A

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 0.9a 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)



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.



0.9B ROADMAP

- Support for additional IBL color spaces
- sACN over WiFi (send Multicast wirelessly from an Access Point to all fixtures) Think of an IBL array but all wireless.
- Update WiFi firmware via USB-C
- Save/Load fixture settings from USB-C
- Improved WiFi functions

ISSUES FIXED FROM 0.8B

- ✓ Ethernet->DMX modes now work as expected.
- ✓ Save as Static IP option now works as expected
- ✓ When using a DMX Profile with the Output Mode parameter the Main Display will now show the correct Output Mode after a power cycle.
- ✓ Turning on a built-in effect had a small impact on the chosen HUE, but is now fixed.
- ✓ sRGB Linear Color Space now uses the correct Rec709 gamut.
- ✓ RGBTD DMX Profiles now show correct parameters on the Color Status Screen
- ✓ Fixed an issue where the IP Status Screen would show the wrong Subnet if the fixture was set to Static IP mode.
- ✓ DMX Termination Menu ignored on/off setting. Internal active dmx termination is now always on.
- ✓ Fixed an issue where a power cycle caused intermittent Broadcast Artnet performance.
- ✓ Fixed an issue where a power cycle caused ArtNet NodeMode to stop responding
- ✓ Fixed an issue where activating NodeMode on R2 models would disable the network port
- ✓ Fixed an issue where random pixels could get stuck on when powered down in Manual Mode via power button
- ✓ Profiles 43 & 44 now show correct parameters on their Color Status Screens