

# Vortex Series Release Notes 2.0.0

## How to update

1. Copy the file to a USB drive.

*Note: Only one \*.sfb update file should be copied onto the drive at a time.*

2. Insert USB drive into USB connector on Vortex.

3. Power up Vortex8 and it will automatically update to the version copied on the USB drive.

*Note: Installing will take 1-2 minutes.*

4. Safely remove USB drive once the update is complete.

**i** *Recommended USB drives include EMTEC, Kingston and Toshiba. Drives will need to be formatted as FAT32. If the Vortex8 fails to read the USB drive, please try one from a different manufacturer.*

## What's new

### Changes from 1.3.0 to 2.0.0

**⚠ Note – User Settings and User Presets will be reset to Factory Defaults after performing this update!**

#### FEATURES

- Added RDM support over Wired DMX and also over CRMX
- Added Custom White Point to 'CCT Crossfade HSI' colour mode (non-crossfade mode used white point of 6500K)
- Added Custom White Point to 'CCT Crossfade RGBW' mode (non-crossfade mode used white point of 3200K) 'Calibrated RGBW mode must be enabled to use this feature. (Now enabled by default. This feature is found in 'Fixture Settings' menu)
- Added 'DMX User Presets' to save and recall up to 4 different DMX configurations. Each DMX user preset can have a custom name defined. (DMX Mode, Address, Smoothing Mode, Dimmer Curve and sACN Universe are all saved.)
- Added ability to Save/Restore User Presets to USB Drive. Can save a single preset, or all presets at once. (These can now also be renamed)
- Add ability to Save/Restore all settings to USB Drive (in 'Manage Settings' Menu). Saves all user settings and current colour values (intensity, CCT, effect parameters etc) When restoring settings from USB, you are given the option to restore DMX address and Static IP address, or leave them unchanged.)
- 5V Power is now available on USB ports to power third party accessories (such as wireless DMX receivers. Max 500mA)
- Added HTP merging of up to 4 incoming sACN sources. (If more than 4 sources are used, the latest added sources will be ignored)

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### IMPROVEMENTS

- Added 'Dimming Curve' and 'DMX User Presets' shortcut keys on DMX home screen.
- Add shortcut key to 'DMX User Presets' on normal home screen (hold down 'User Presets' button for 1 second)
- LumenRadio TimoTwo Bluetooth name is now set to fixture name on startup. (Not for this feature to work correctly, the TimoTwo module may need its firmware updated to V1.0.5.1 or higher, using the TimoTwo CRMX Toolbox app)
- Added ability to rename fixture (in 'Manage Settings' Menu). This fixture name will be shown on RDM connections and also on TimoTwo Bluetooth connections.
- Reskin menu system, tweaks to UI to make it cleaner and easier to use.
- Information screen has been updated, with QR code link to Creamsource support website. Product: Vortex – CreamOS 1.3.0 to 2.0.0 18th April 2022
- Move 'Restore Defaults' from 'Advanced' to 'Manage Settings' menu
- Added POWER icon to main home screen, if light is turned off
- Added IP address under the status bar to display fixture's current IP address whenever LAN is connected.
- Added warning message if Static IP address is selected which is invalid (e.g. broadcast IP address is chosen)
- DMX Modes have been renamed for RDM to include the mode number at the start of the mode name.
- Reduced 'Battery Power Limit' step size from 10w to 5w to allow more precise control.
- Reduced DHCP retry timer to 10 seconds.
- SACN behaviour now accepts sACN streams even if DHCP server isn't present. (Will keep existing IP address if LAN is re-connected, even without DHCP server.
- Multicast sACN will continue to work even with an IP address of 0.0.0.0
- Any DMX address can now be set when in FLEX mode. It is up to the user to ensure all DMX modes will fit within the universe whilst in FLEX mode.

### FIXES

- Fixed bug where Zone 1 in Multizone Demo mode could flicker when brightness changed, or if running an effect.
- Fixed bug where fans could run if LED temperature is less than 0oC
- Fixed bug where sACN Unicast packets could be received on other universes than the one set.
- Fixed bug where x100 multiplier was shown in 'Batter Power Limit' screen
- Fixed bug where sACN priorities were ignored.
- Fixed bug where DMX forwarding of sACN packets could have latency of up to 1 second.
- Fixed bug where CRMX BLE device name could be merged with previous name.
- Fixed bug where DHCP overrides static IP on boot regardless of user settings.
- DMX forwarding now output at a constant 40Hz, regardless of input frequency. DMX Output will stop around 2.5 seconds after loss of DMX input signal.
- Short sACN packets are now padded to 512 slots before DMX forwarding.

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## Changes from 1.2.1 to 1.3.0


- Added support for Vortex4 fixtures. This firmware can also be used in Vortex8 fixtures.
- CreamOS 1.3.0 is the minimum version required for Vortex4.
- Show IP address on screen when in Multizone mode with sACN
- Added reset of Dynamic Config values by holding quickkey (e.g. Hold down GRN/MAG button to reset to 0)
- Increase resolution of CCT from 100K to 10K, and slow down encoder speed
- Change GRN/MAG display to -1.00 -> +1.00 (from -100 -> 100)
- Stop Lumen Radio icon jitting when going between 99/100%
- Added Overtemperature icon to Status Bar
- Allow brightness control of Demo Multizone mode. Also fix DMX clash if in Demo mode, and restore last settings properly when exiting demo.
- Added 1second 'settling' timer to DMX Flex Mode, so does not immediately change mode when DMX slot 1 is changed
- Fixed missing 'Reserved' channel from DMX Channel Count (on screen) for modes 1-30
- Added error message on startup if LED Driver boards are not detected, wrong HW Type is configured or there is communications error with LED Driver
- Added error message on startup if Fan controller board is not detected
- Added 'beta' display on startup, if running a BETA firmware version
- LED Driver: Add safety so HRD drivers cannot be enabled if temperature sensor is not detected
- LED Driver: Add flashing mode to red Error LED on HRD: Solid = HRD Address not set, Fast Flash = No 48V Power, Slow Flash = Temp Sensor Error on either zone
- Fixed bug in Flash Frames where could flash intermittently when disabled via DMX, and may get out of sequence when DMX 'Enabled' channel was changed
- Fixed issue where effects Party, Strobe and Emergency would only update intensity at each effect transition - now can smoothly change brightness at any time
- Changed behaviour of FLASH button to same as V1.1.5 and earlier. In V1.2.0 it had changed behaviour so could not Flash OFF when light was ON

## Changes from 1.1.4 to 1.2.0


- Sync Framework implemented for effects Dual Level, Flash Frames and Sync Flash. Sync the Vortex to your camera's shutter for specialised lighting effects that are frame accurate up to 5,000fps.
- User Presets implemented with up to 50 user presets. Store, restore and clear User Presets for Effects and Colour modes. Access this from the vertical quick link button from home screen or from Menu > User Preset. Ideal for creating your own presets and shortcuts.
- sACN networking implemented. Receive DMX data over Ethernet cable using the Streaming-ACN protocol (ANSI E1.31). This is located at Link > sACN & Network Settings.
  - sACN Universe from 1-63999 is available.
  - Set static IP, Subnet Mask, Gateway or use DHCP mode.
  - Order of priority for DMX communications: Wired DMX → sACN → CRMX → ACC
- Added 'DMX Forwarding' mode to forward incoming CRMX or sACN data out the DMX port, to control fixtures which don't have wireless or networking features. This can be enabled under "LINK->DMX Settings.
- Add 'Blackout on Startup' option (Menu > Fixture) to force unit to startup dark, until DMX received or via manual control.
- Added option to limit maximum power draw when running from Batteries, so fixture can be safely used on lower capacity batteries. Limit can be set from 100W to 650W. Change under 'Fixture Settings->Battery Power Limit'.

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## Changes from 1.1.4 to 1.2.0

-  **DMX MAPPING CHANGE** - Moved Fan Channel to the **END** of MultiZone modes (32,33,34,35,36,37). Added 'Reserved' channel to end of Multizone map
- Added ability to disable CRMX Bluetooth module. Grouped all CRMX functions in a subfolder under LINK menu
- Fix bug where zones could flicker at very low levels.
- Fixed small mismatch of CCT between zones, increase overall CCT accuracy.
- Added a shortcut to disabled Effects by holding down the FX shortcut button along with the option to quickly turn it off from the Effects and Colour Mode selection screen.
- Implemented dynamic placement of Status Bar Icons.
- UI Changes: The naming of Lumen Radio is now 'CRMX' in Menu System. Change all menu items to be in Title Case.
- Fixed bug where bottom half of panel (zones 5-8) were delayed by 1 DMX frame when running in Multizone DMX modes.
- Add 'Demo Multi Zone' function (Menu > Advanced).
- Restore Defaults resets brightness level to 0% instead of 100%

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 Please refer to the *Vortex DMX Table version 1.2*. This can be downloaded from the *Creamsource Support page* along with the firmware.

## Note about 1.1.5

- Version 1.1.5 release on some units was a minor update with internal changes for production testing.
- Download this version from the Firmware History section on our website.

## Known Issues

- If receiving CRMX / sACN data and 'DMX Forwarding' is enabled, fixture zones may flash briefly if switching over to Wired DMX data, or not switch over at all (due to data clash between the DMX Output and DMX Input). It is recommended to keep 'DMX Forwarding' disabled if you plan to hot-swap between CRMX / sACN and DMX data.
- Fixture may not respond to all network 'Ping' requests if using sACN with multiple universes transmitted. Bear this in mind if using 'Ping' to check network reliability. Note this does not affect sACN performance.