



Support

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<https://creamsource.com/support/>



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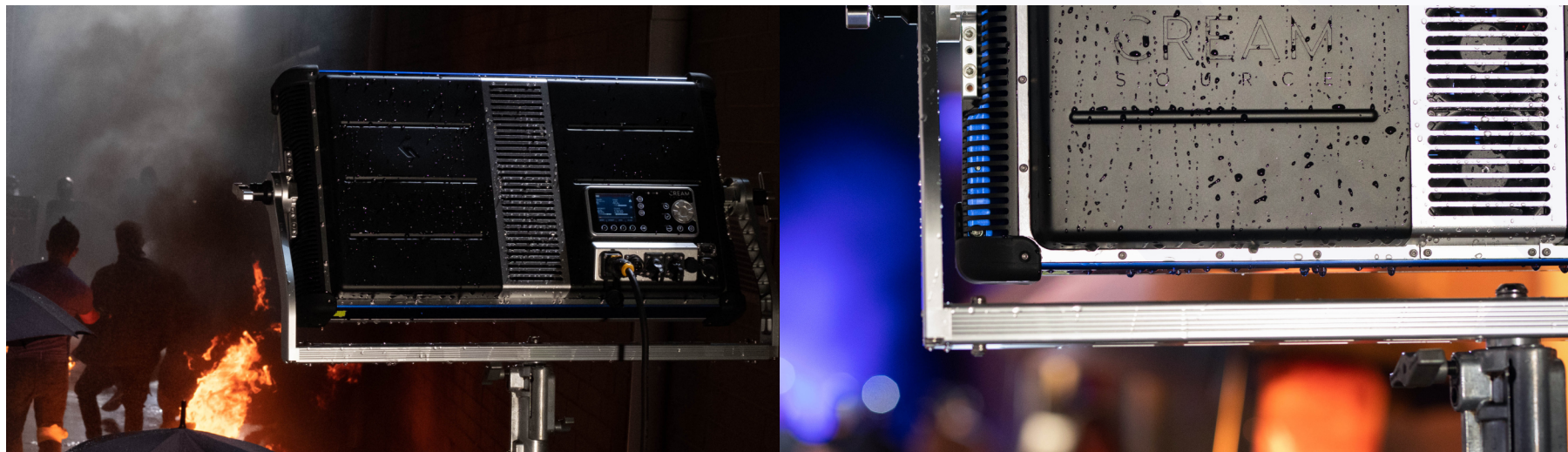
1. About the Vortex8

1.1 Overview

The Vortex8 is a versatile 2x1 RGBW system with a CCT range from 2200K to 15000K that can be used as a hard punch light to bounce or push through diffusion, or as a creamy soft light with the Creamsource Dome or DoPchoice Snapbag. Effects and colour gels are built into the latest CreamOS architecture in addition to a range of new features wrapped into an intuitive user interface. Unpredictable weather and messy effects machines are no longer a worry for the lighting department where the Vortex is in place. The Vortex8 is IP65 water resistant and sealed for the ultimate security and efficiency. Rain, snow and dust wont hold the Vortex8 back.

Connectivity to the Vortex8 is well up to date with LumenRadio TimoTwo built in, Ethernet, Bluetooth, 5pin DMX, Wifi, USB type A and Creamsource Accessory port. Interaction between Vortex8 and various third party instruments and protocols are endless opening various wired and wireless control options. We are geeks for high quality and precision engineering, and loads of our geekiness has spilled into the Vortex Series. Built with elegance and durability in mind the aluminium machining and technopolymer infusion has allowed us to achieve our goals. Containment and simplicity is also achieved in this design, with the PSU as well as the antennas integrated into the head.

We stand by our users offering 5 years Warranty when you register your product. Go to www.creamsource.com for more information.



Vortex8 in action

1. About the Vortex8















1.2 Part Numbers

The table below lists part numbers for the Creamsource Vortex system.

Part Number	Description
K-CSV-8-ESS	Vortex8 Essentials Kit: Includes Fixture, Yoke, Power Cable, Flat Diffuser.
CSV-8	Vortex8 650W Colour Fixture, Head Only

1. About the Vortex8

1.3 Warnings

-  **IMPORTANT** - Power Vortex8 with the supplied PowerCon Cable only. (When using Vortex8 with water you must only use the supplied cable as not all PowerCon cables are water resistant.)
-  Use etherCON TOP connector only for preventing water from damaging ethernet ports
-  Vortex8 is rated IP65. Vortex8 must NOT be submerged in water.
-  Heavy -Vortex8 weighs 13.7kg/30lbs. Lift with care.
-  Not intended for permanent outdoor use. Temporary outdoor use only.
-  Do not open or disassemble the fixture under any circumstances, doing so voids warranty and may cause harm to you if powered.
-  Do not stare directly at the light beam.
-  Ensure that the Vortex8 is clear of any obstructions in any direction with a minimum distance of 45cm/18”.
-  This product is intended for professional use and may only be operated by qualified persons.
-  Do not cover the ventilation slots on the side and rear of the Vortex8. Airflow is required for cooling and operation.
-  Inspect the power cable for damage prior to operation.
-  Check for visible damage to the fixture, cables or connectors and do not operate the device if damaged. Please contact your a nearest authorised repair centre for the fixture to be repaired.
-  Always ensure that the fixture is earthed electrically.
-  The fixture may become hot during operation. Maximum Surface Temperature $T_c = 70^{\circ}\text{C}$.

1. About the Vortex8

1.4 Compliance Notes

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: **(1)** This device may not cause harmful interference, and **(2)** This device must accept any interference received, including interference that may cause undesired operation.

Certifications: CE, FCC, RCM



Please make sure discarded electrical waste is properly recycled to reduce environmental impact. Please use a separate collection facility or contact the supplier from which this fixture was purchased.

2. Getting started

2.1 What's in the Box

Vortex8 ships with the following items included in the box.


- 1 Vortex8
- 2 Yoke
- 3 AC PowerCON Cable
- 4 T30 Torx Key



3. Water and Temperature

3.1 Water

The IP65 rating of the Vortex8 fixture means it can survive low pressure water jets in all directions, but **not full submersion**. It also means that it has a high resistance to dust and dirt. Precautions are advised.

 *The supplied PowerCon cable must be used when the Vortex8 is exposed to water. Not all PowerCon cables are water resistant and can be an electrical hazard.*



3.2 Temperature

The Vortex8 is a high powered lighting fixture and will get quite hot during operation, especially on the aluminium chassis due to heat dissipation. Care must be taken when handling the Vortex8.

- The maximum surface temperature of the lamp head will be 60° C/140°F, when operated in an ambient temperature of 25° C/77° F
- Maximum ambient temperature for normal operation is 40°C/104°F.

4. Transport and Safety

4.1 Yoke Assembly

The Vortex8 ships with a quick release yoke system that is assembled using a T30 Torx tool provided.

The standard yoke allows for mounting to a combo stand with a standard baby pin receiver.



1 *Included parts.*



2 *Use the hex key to fix yoke arms to base.*



3 *Adjust until finger tight, do not over tighten.*



4 *Repeat on the other side.*

4. Transport and Safety

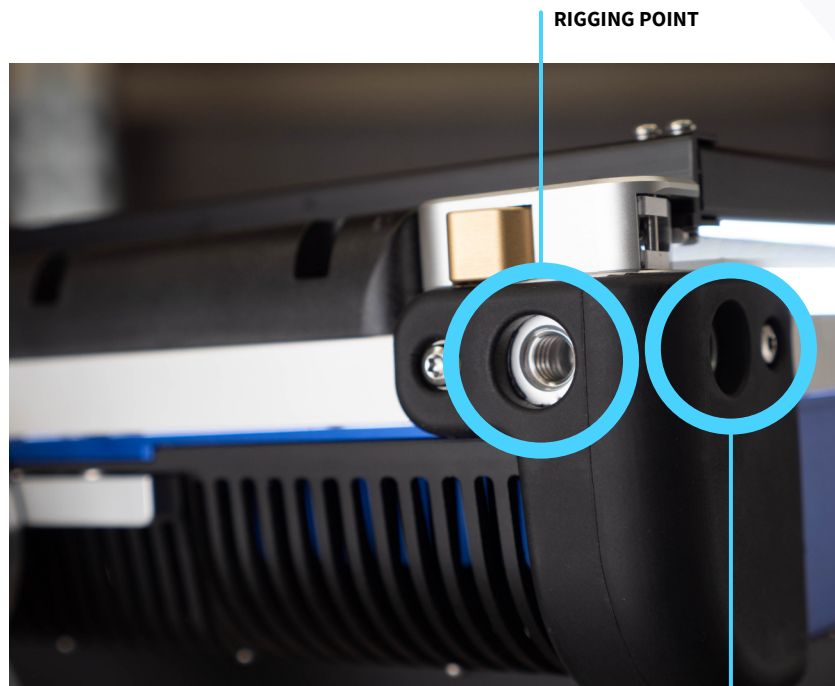
4.2 Rigging

The Vortex8 has a unique dual 3/8th threaded corner system to support complex rigging setups and Vortex8 arrays .



Ensure that mounting point is safe and secure and is rated to take the full unit weight.

Ensure fastener length does not exceed the depth of the threaded rigging point, or they may become stuck.



RIGGING POINT



RIGGING POINT

4. Transport and Safety

4.3 Filter Rails

There are various accessories that are available for V8 that can slide into the front two accessory rails. Eg a standard diffuser and a honeycomb grid. Accessories slide into the rail system and lock securely with unique lock and latch system.



The filter rail slot has a unique locking mechanism that locks the initial filter in while allowing second filter to be inserted without unlocking.



Latch in unlock position.



Push top latch down to engage the lock.



Push gold button to release to unlock.

4. Transport and Safety

4.4 Installing a Dome

Installing the Dome the Vortex8 widens the native 20° beam angle. This modifier softens the source and reduces shadowing.

Install the Dome into the safety filter rail as per steps above in the “Rails Filter” section.



Slide the dome into the first filter rail.



Push top latch down to engage the lock on each side.

4. Transport and Safety

4.5 Installing a Honeycomb

The honeycomb reduces the beam angle and stops ambient spill of light. This works great in with the standard diffuser in the second slot.



Slide the honeycomb into the first filter rail.



Push top latch down to engage the lock on each side.

4. Transport and Safety

4.6 Installing a Diffuser

The standard diffuser softens the native hard light and widens the beam angle. This modifier works well in conjunction with the dome and the honeycomb.



Slide the diffuser into the first filter rail.



Push top latch down to engage the lock on each side.

5. Controls

5.1 Controlling the Vortex8

There are four different ways of controlling the fixture, which are detailed below.

- 1

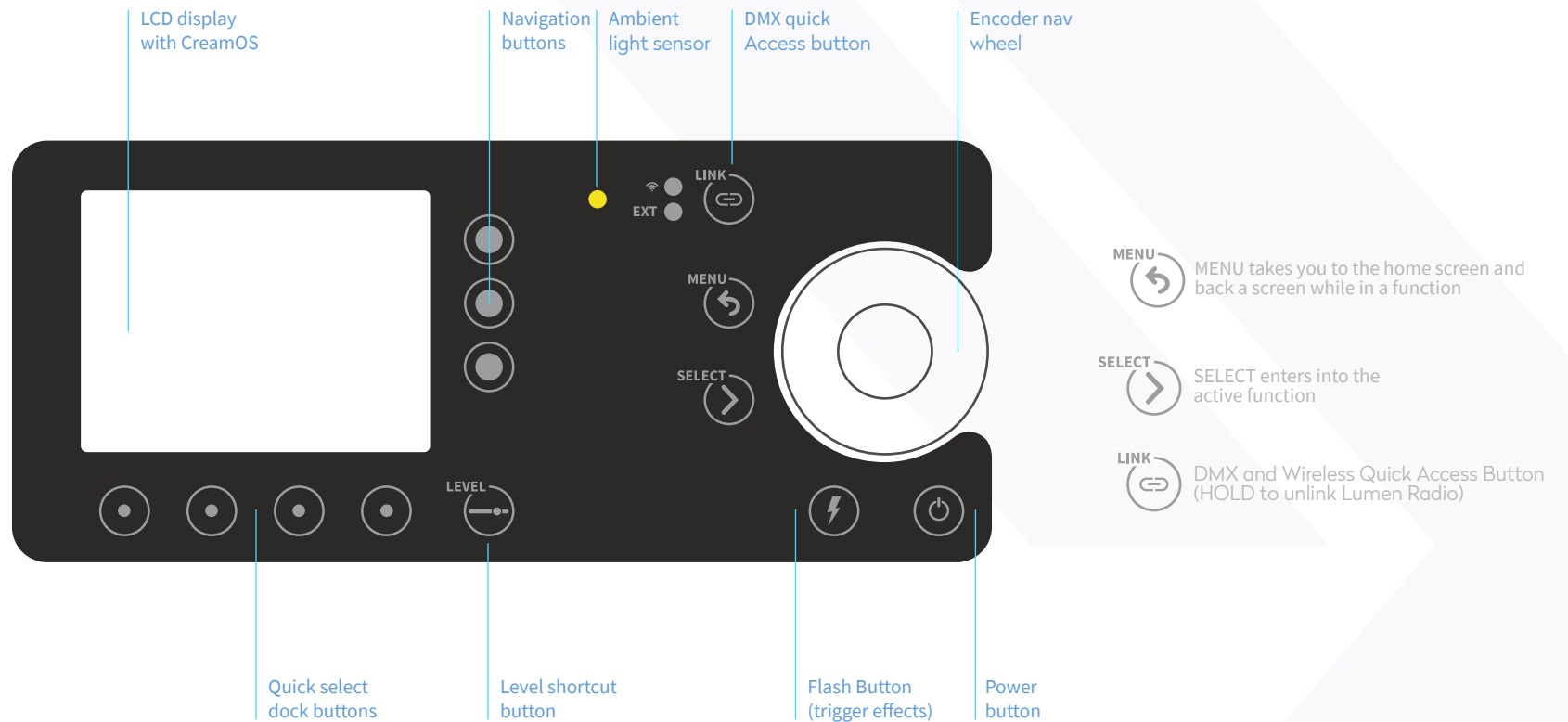
On-board keypad and display
- 2

Wired DMX
- 3

Wireless DMX using inbuilt Lumen Radio system
- 4

Wired remote dimmer control *(sold separately)*

5.2 On-board Keypad and Display

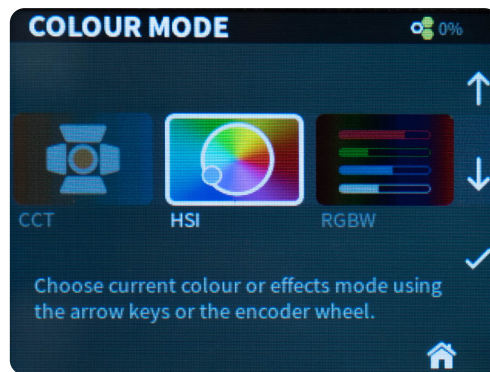


5. Controls

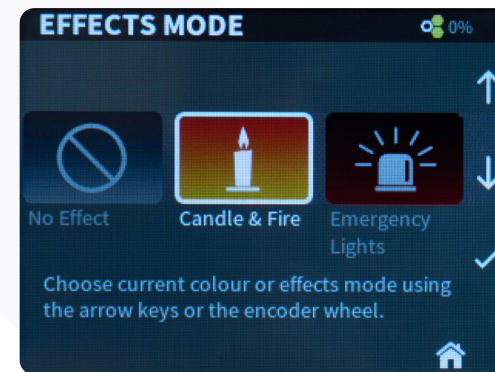
5.3 Introducing CreamOS

CreamOS is the all new operating system based on architecture that is robust and expandable. CreamOS continues to evolve with easy access and a user friendly interface.

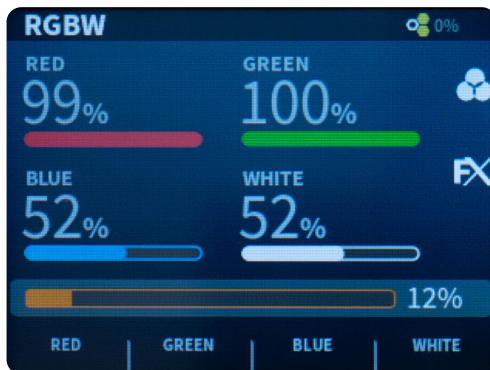
CreamOS is driven by the following screens:



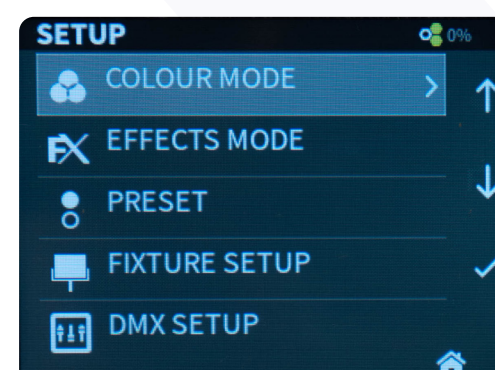
Colour Mode



Effects Mode



Home screen



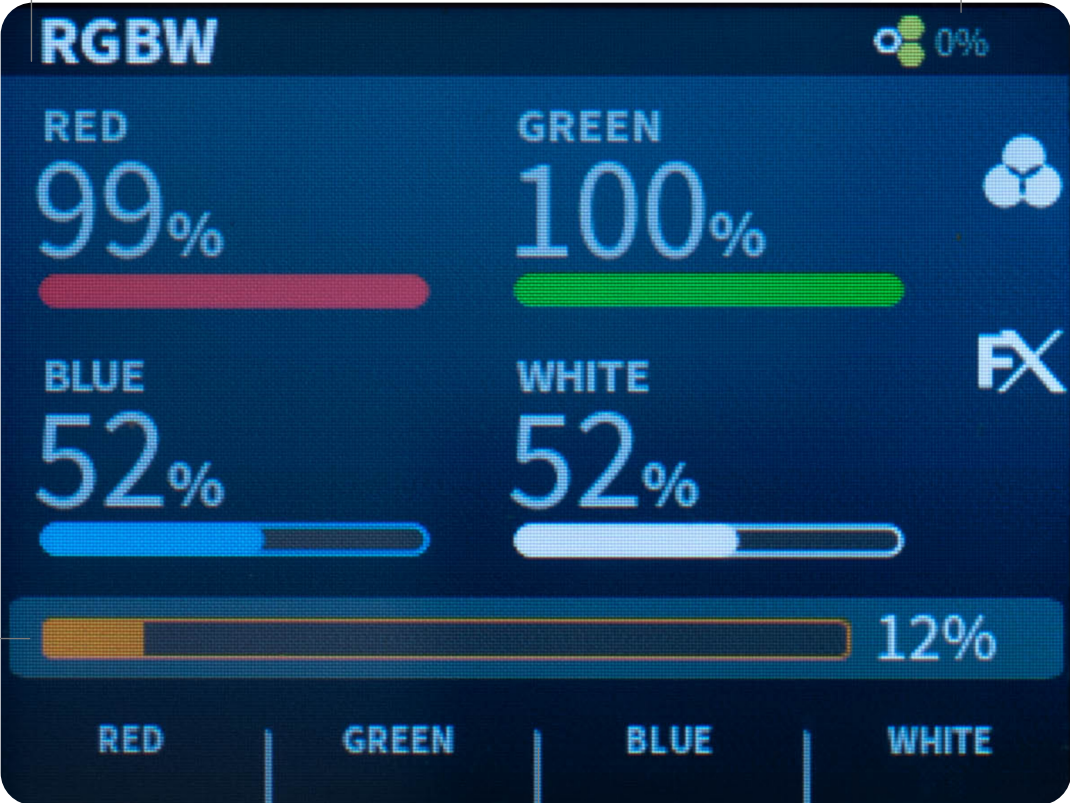
Options screen

Visit www.creamsource.com/support for the latest version of CreamOS.

5. Controls

5.4 CreamOS Home Screen

Control parameters and access the functions from the home screen.



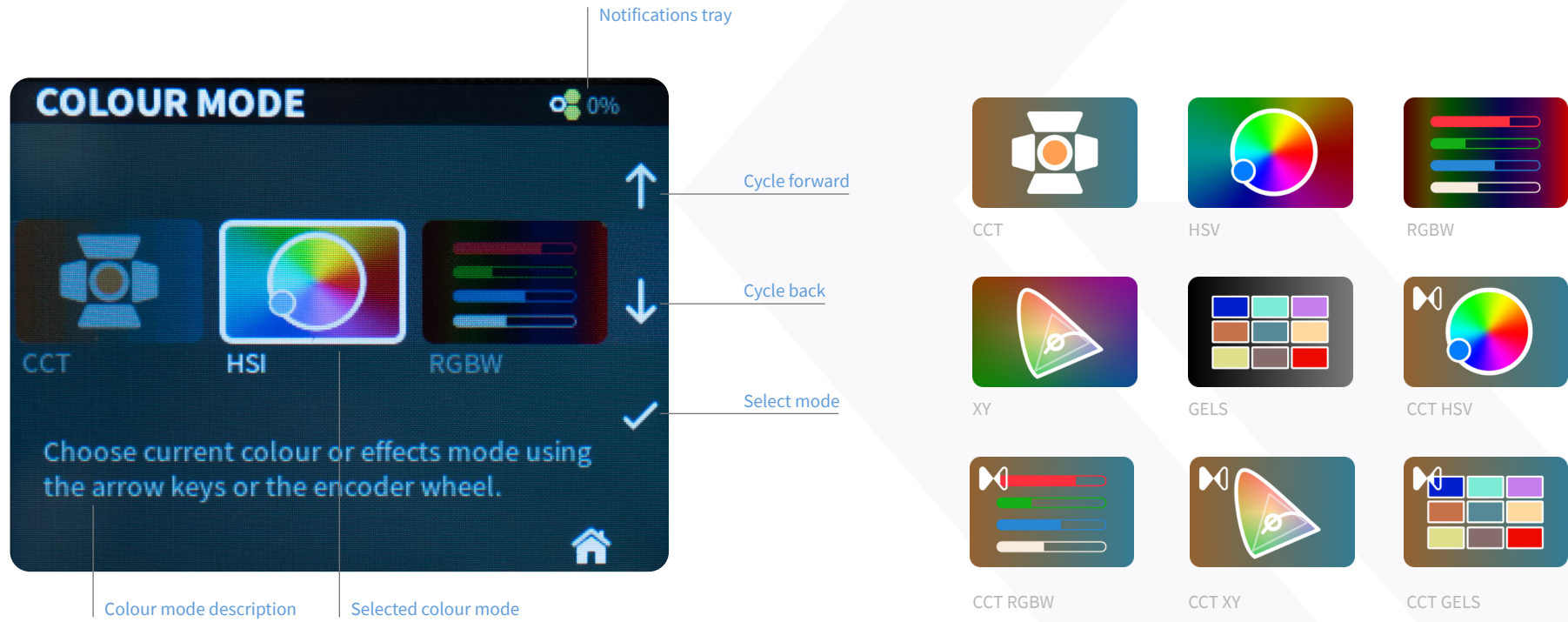
The screenshot shows the CreamOS Home Screen with the following parameters and controls:

- Current mode:** RGBW
- Notifications tray:** 0%
- RED:** 99% (with a red progress bar)
- GREEN:** 100% (with a green progress bar)
- BLUE:** 52% (with a blue progress bar)
- WHITE:** 52% (with a white progress bar)
- Colour mode:** Indicated by a three-dot icon.
- Effects mode:** Indicated by an 'FX' icon. A note states: "When orange, Effects Mode is on".
- Level:** 12% (with a long horizontal progress bar at the bottom).
- Selected parameter tile:** The 'RED' tile in the bottom dock is highlighted.
- Quick select parameter dock:** A dock at the bottom with buttons for RED, GREEN, BLUE, and WHITE.

5. Controls

5.5 CreamOS Colour Mode

Easily switch colour modes from this screen.



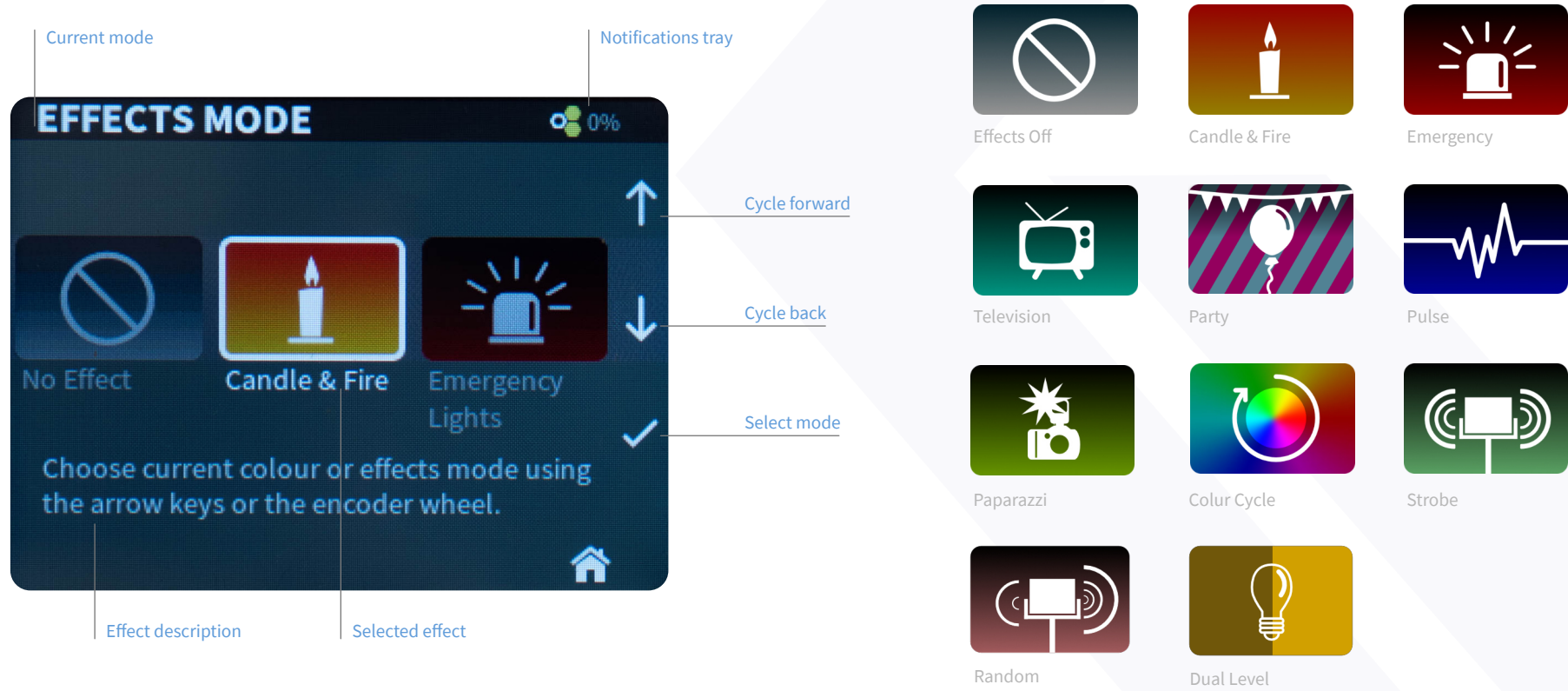
The screenshot shows the 'COLOUR MODE' menu with a '0%' indicator in the top right. Three modes are visible: CCT, HSI (selected), and RGBW. Callouts point to 'Cycle forward' (up arrow), 'Cycle back' (down arrow), and 'Select mode' (checkmark). A 'Notifications tray' is also indicated. Below the menu, a grid of 9 icons represents different colour modes: CCT, HSV, RGBW, XY, GELS, CCT HSV, CCT RGBW, CCT XY, and CCT GELS. Each icon is labeled with its corresponding mode name.

For more information about the Colour Mode menu, go to **5.7 Menu Functions**

5. Controls

5.6 CreamOS Effects Mode

Enter the Effects menu and select one of the following presets. Each preset has multiple parameters that can be changed to customise the effects.



The screenshot shows the 'EFFECTS MODE' menu. At the top, it displays 'Current mode' and a 'Notifications tray' with a 0% battery icon. The menu contains several effect icons: 'No Effect', 'Candle & Fire' (the selected effect), and 'Emergency Lights'. Below these are 'Television', 'Party', 'Pulse', 'Paparazzi', 'Colour Cycle', 'Strobe', 'Random', and 'Dual Level'. Navigation controls include 'Cycle forward' (up arrow), 'Cycle back' (down arrow), and 'Select mode' (checkmark). A home button is at the bottom right. A text box at the bottom of the menu reads: 'Choose current colour or effects mode using the arrow keys or the encoder wheel.'

More effects may be added in future firmware updates. Visit www.creamsource.com/support for the latest version of CreamOS.

5. Controls

5.7 Menu Functions

The table below outlines all the menu items and a brief description of their function, for firmware **V1.1.4** and above.

COLOUR MODE	→	CCT	→	White light with variable colour temperature and green/magenta control
		HSI	→	Vivid colours with Hue and Saturation control
		RGBW	→	Direct control of Red, Green, Blue and White channels
		XY	→	Calibrated colour control using X,Y coordinates
		GEL	→	Select from over 300 industry standard lighting gels
		CCT-HSI	→	Crossfade between CCT and HSI modes
		CCT-RGBW	→	Crossfade between CCT and RGBW modes
		CCT-XY	→	Crossfade between CCT and XY modes
		CCT-GEL	→	Crossfade between CCT and GEL modes
EFFECTS MODE	→	No Effect	→	All effects disabled
		Candle & Fire	→	Realistic candle and firelight effect with control over preset, intensity, speed and colour
		Emergency Lights	→	Emergency lights such as police and ambulance with control over preset, colour, flashes, speed and pause time
		Television	→	Changes CCT and green/magenta to simulate light cast by TV screen, with control over speed, dynamic range and CCT
		Party	→	Dynamic colour changing party lights with control over palette, speed, transition type and transition speed
		Pulse	→	Pulse of light fading in and out with control of frequency and pulse speed
		Paparazzi	→	Random camera flash-bulb effect with control of speed, decay speed and CCT
		Colour Cycle	→	Cycle through the spectrum of saturated colours with control over speed
		Strobe	→	Strobe effect with control over frequency, brightness & duty cycle
		Random	→	Create a random pattern of flashes with control over frequency, length & variation
		Dual Level	→	Set two different light levels and instantly switch between them using Flash button, DMX or external trigger signal
PRESET	→	Select from a range of CCT and Colour presets for recall of commonly used colours		
FIXTURE SETUP	→	FAN MODE	→	Auto - Variable speed fan control based on temperature of fixture
			→	Quiet - Fans run at constant low speed
			→	Medium - Fans run at constant medium speed
			→	High - Fans run at constant high speed
			→	Pause - Fans are stopped temporarily until until fixture heats up (should not be used for long periods of time)

5. Controls

5.7 Menu Functions Cont.

FIXTURE SETUP	→	DIMMING CURVE	→	Linear - Linear dimming curve
			→	Exponential - Smoothest dimming at low levels
			→	Logarithmic - Smoothest dimming at high levels
			→	S Curve - Smoothest dimming at low and high levels
	→	Calibrated RGBW	→	Activate calibrated colour space for RGBW modes. This uses the Kodak Pro Photo Colour Gamut / Plasa standard E1.54. The white point is set to 3200K
	→	High Speed	→	Enables High Speed mode for shooting at high frame rates. Disable for best colour accuracy and dimming performance
	→	Blackout On Startup	→	Select to force the fixture to power on with the fixture output turned off. When DMX is received, the fixture will turn on. If not selected, then fixture will power on with the last used output level
DMX SETUP	→	DMX Address	→	Set DMX Address from 1 to 508
	→	DMX Mode	→	Choose active DMX Mode
	→	DMX Smoothing	→	Off - No smoothing is applied to DMX data, fastest response time
			→	Smooth - Interpolation over two DMX frames for smooth dimming, reduced response time
	→		→	Super Smooth - Interpolation over five DMX frames for super smooth dimming, slow response time
LINK	→	LumenRadio Unlink	→	Unlink LumenRadio from all transmitters (shortcut - hold LINK button for two seconds)
	→	LumenRadio Enabled	→	Enable or disable LumenRadio receiver
	→	DMX SETUP	→	Shortcut to DMX SETUP Menu
	→	Master Mode	→	When enabled this unit will act as a master and transmit colour data over DMX port to other Creamsource fixtures
ADVANCED	→	Information	→	Show system information such as Serial Number, IP Address, Hardware type
	→	Restore Defaults	→	Restore all fixture settings to the factory defaults

6. Connectivity

6.1 Best Of Class Connectivity

Vortex8 is equipped with a wide range of connectivity options both wireless and wired.



6. Connectivity

6.2 Wired DMX Control

Standard 5 pin XLR connectors are located on the back of the unit. The connectors are Neutrik TOP series, and will only be water resistant when mated with other Neutrik TOP connectors.

When valid DMX signal is present, the yellow EXT indicator on the keypad will light up and the DMX homescreen is displayed, which shows active DMX parameters and quick keys to change DMX Address, Mode and Smoothing options. Local control of the fixture is overridden when DMX control is active.

DMX Address and Mode can be selected from the DMX SETUP Menu. Please see the DMX Implementation Tables for more information about the channel mapping options.

6.3 Wireless DMX Control

Every Vortex unit has built in Wireless DMX control using the Lumen Radio system.

When a valid wireless DMX signal is present, the blue Wireless indicator on the keypad will light up. The current signal level will also be displayed on the top status area of the OLED screen

If wired DMX is connected at the same time as the Wireless DMX is receiving data, then the wired connection will take control.

The DMX Address and Mode should be set in the same manner as for wired DMX.

To unlink the Lumen Radio module, press the LINK button and select "Unlink Lumen Radio" (or hold down the LINK button for 2 seconds).

Please see *Lumen Radio documentation* for more information about the wireless DMX system.

6.4 Wired Remote Dimmer

The wired remote dimmer plugs into the 7 pin Accessory connector on the back of the unit. This will allow basic control of the fixture.

6. Connectivity

6.5 Firmware Updates Via USB

Download the latest CreamOS update from www.creamsource.com/support.

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.



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.

7. Maintenance

7.1 Vortex8 Fuse

The Vortex8 has an internal fuse and is not user serviceable. Please contact your nearest authorised repair centre for it to be replaced.

Require help finding your nearest authorised repair centre? Feel free to get in touch.

<https://creamsource.com/support>




Internal fuse is only for 48V DC, not AC input.


8. Power

8.1 Running from Batteries

The Vortex8 can be run directly from a 48V regulated DC battery source with no additional hardware required. The fixture is also able to hot-swap between AC and DC power sources and is capable of running at 100% brightness while being powered by a battery. The battery must have sufficient capacity to continuously power the fixture with a current draw of 13.5A.



The green battery icon will display in the status bar when the unit is being powered via a battery source.



Do not exceed 50v otherwise your Vortex8 may be damaged.

The table below shows power requirements when running at maximum brightness. Battery Amp-Hour ratings should be chosen accordingly.

Part Number	Wattage	Current Draw @ 48V
CSV-8 Vortex8	650W	13.5A

8. Power

8.2 Pinout for DC Power connector on Vortex8

Choose a 4 core cable of >15AWG (1.5mm²) and wire all 4 pins

Part Number	Connector	Manufacturer	Part Number
CSV-8 Vortex8	Ecomate 4 Pin Female	Amphenol	C016 20D003 110 10

Pin	Wire To
E	- Ve
1	- Ve
2	+ Ve
3	+ Ve

9. Specifications

9.1 Specs for the Accessory Port Pinout

Connector Type: Weipu Socket 7Pin

Mating Plug: Weipu Plug 7Pin SF1210/P7II

Pin	Description
1	TRIGGER Input +Ve (5-24V Input, referenced to GND)
2	DMX Data (-Ve)
3	DMX Data (+Ve)
4	
5	
6	GND, Ground Reference
7	+12V Output, 200mA maximum

9. Specifications

9.2 Specs for the Vortex8

Material	Aluminium/Technopolymer
Light Source	RGBW LED
Colour Range	CCT: 2200 - 15000K, PLUS/MINUS GREEN, HUE/SATURATION, XY, GELS, DIRECT RGBW, EFFECTS
CRI	Typical 95
TLCI	Typical 95
Beam Angle, SPOT Lens	20° (Half Peak Angle)
Tilt Angle	360°
Photometrics	<p>3200K:</p> <p>68,200 lx / 6,340 fc @ 1m / 3.3ft 26,200 lx / 2,430 fc @ 2m / 6.6ft 12,700 lx / 1,180 fc @ 3m / 9.8ft 7,400 lx / 690 fc @ 4m / 13.1ft 4,800 lx / 450 fc @ 5m / 19.4 ft 3,400 lx / 320 fc @ 6m / 19.7 ft</p> <p>5600K:</p> <p>73,500 lx / 6,830 fc @ 1m / 3.3ft 28,600 lx / 2,660 fc @ 2m / 6.6ft 13,900 lx / 1,290 fc @ 3m / 9.8ft 8,000 lx / 740 fc @ 4m / 13.1ft 5,200 lx / 480 fc @ 5m / 19.4 ft 3,700 lx / 340 fc @ 6m / 19.7 ft</p>
Mounting	8x 3/8" Threaded Insert Rigging Points
Yoke	Removable quick release yoke
Filter Rails	2 Filter Rails for Secondary Lenses, Diffusers, Accessories
User interface	High Precision Digital Magnetic Encoder, Backlit Keypad, Colour LCD Display
Dimming	0-100% with High Resolution, Super-Smooth Low End Mode

High Speed Capability	Over 5000fps Flicker Free in High Speed Mode
Synchronization	Sync Input for Triggering and Syncing to Camera Shutter
Max Ambient Temperature	40°C
Cooling	Low noise variable speed fans
Estimated LED Lifespan	50,000hrs (L70)
Input (AC)	100-240V AC, 50/60Hz, Max 8A. Neutrik PowerConTrue connector
Input (DC)	48V DC, Max 13A, Can run at 100% brightness on DC input
Protection Class	IP65
Weight	13.7kg / 30lb (Excluding Yoke) 1.98kg / 4.4lb (Yoke weight)
Dimensions	690 x 380 x 121mm / 27.2" x 15" x 4.8" (Excluding Yoke) 831 x 551 x 164mm / 32.7" x 21.7" x 6.4" (Including Yoke)
Warranty	3 Years on Fixtures, 12 Months on Accessories (5 Years registered)
Certifications	CE, RCM, FCC. Pending: ETC
Control	On-Board Interface, DMX via standard 5-pin XLR connectors, Wired Remote Control Accessory, Integrated Lumen radio Timo Two with Bluetooth, Ethernet, USB Type A
Includes	Vortex8 650W Colour, Yoke, Power cable, Flat diffuser
Product Code	K-CSV-8-ESS

9. Specifications

9.3 Warranty

We stand by our quality, to learn more about Warranty Terms and Conditions, please visit:

<https://creamsource.com/5-year-warranty>

9.4 Support

Have any questions? Feel free to get in touch

<https://creamsource.com/support>

Creamsource

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9. Specifications

9.4 Document History

Revision	Date	Notes
1.0	14 Jan 2020	Initial Release
1.1	23 Apr 2021	Changes to the menu funtions in 5. Controls.



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