outsight

creamsource

USER MANUAL

For software v6.0 and above

MICRO

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Chapter 1:

Welcome

Thank you for buying a Creamsource Micro from Outsight. We design and engineer our products to the highest standards to be used under the challenging circumstances that come with motion picture and television production. This unit will give you years of reliable service.

This manual will explain the multiple functions of the Creamsource Micro and its capabilities as a stand alone unit as well as working in sync with other units, cameras and accessories. We are always eager to find out about new and unusual applications for our products as well as suggestions for future features.

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Chapter 2: Getting Started

2.1 What's included:

If you have purchased your Creamsource Micro as an Essential Kit, you will receive the following:

1. Creamsource Micro Rigging Yoke
2. Creamsource Micro Luminaire Fixture
3. Creamsource Micro Power Supply with Mounting Bracket
4. Creamsource Micro Power Cable
5. Creamsource Micro 60° Lens

2.2 Powering Up and Powering Down:

Before you power up make sure you read all the safety warnings (page 33), it won't take much time.

- Use only the power supply that comes with the Creamsource Micro. Its input is auto-ranging from 100-240V AC, 50/60Hz for use world-wide.
- Attach power supply to main power source. With the power supply turned OFF, connect the power cable to the light head. This procedure will extend the life of the connectors.
- The Creamsource Micro remembers its last brightness setting, if the light was turned on or off and the last MODE it was used in.
- Up to 10m (32ft) of extension cable can be run between the power supply and the head.

The power should be switched off before unplugging the cable. There are no other special procedures for powering down - it can be done at any time without harm to the unit.

If the external flexible cable of this luminaire is damaged, it must be replaced by an original cable from the manufacturer or service agent.

2.3 Batteries

The Creamsource Micro can be run on DC battery power directly with no additional hardware required. Any voltage source between 10V and 32V which is capable of 80 watts draw can be used. The LED array will turn off if the voltage falls below 10V, so it is advisable to use 14.4V or higher for best performance.

Chapter 3: Water, Weather and Temperature

The IP65 rating of the Creamsource Micro Head 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. Still precautions are advised.

Note that the standard accessories are not water resistant - for example battery mount, remote, power supply etc.

Temperature

As the Creamsource Micro is a high-power device, it will get hot during normal operation, and care must be taken when touching the unit.

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

Chapter 4: Rigging and Safety

Recommended rigging position for the Creamsource Micro is with the cooling fins in a vertical orientation. This allows for the best natural cooling of the unit.
It can be mounted in other positions BUT care must be taken not to smother the cooling fins on the back of the unit. Keep a 10cm/4in. clearance around the unit to maintain air flow.
If rigging the unit above people, from vehicles, moving platforms, or hanging from any rigging, be sure to secure the unit through the safety-cable holes located at each end of the unit using approved and correctly rated safety cables, chains or carabiners.

Use appropriate safety cable for 4kg load. If the unit is to be mounted suspended, it is necessary to replace the standard spigot with a 28mm DIN or Euro spigot - please contact Outsight for more details

Rigging Options

4.1 Quick Release Yoke:

A combo Junior/Baby spigot - compatible with a large range of stands and other rigging equipment. The yoke is quickly fitted without tools. Simply flip the levers on each side of the yoke to the UP position, and slide the yoke onto the unit. Then press the lockers "levers" down to lock.

4.2 Universal Mount Plate:

The universal mount plate on the back of the Micro can be used to mount the Power Supply and Battery mount. It can also be used for rigging - it is compatible with mounting accessories from Kino Flo, such as the MTP-BF41S ("lollipop") mount. To release, lift the spring pin and turn plate counter-clockwise.

4.3 3/8" Tapped (threaded) Hole:

Another mounting option is the 3/8" hole tapped (threaded) directly in the base of the unit.

4.4 Optional Spigot:

Suitable for floor stand mounting only. (Supplied with 'Basic Kit').

Other setup accessories

Gels and lenses:

The Micro has a native spot beam angle of 13°. A range of highly efficient holographic lenses are available to widen the beam angle to 20°, 60° or 100°. Empty gel frames are also available if you want to fit your own diffusion or filters.

Light Shaping tools:

Optional extras- Barn Doors, Lightbanks and Grids

Chapter 5: Controls

5.1 Control Wheel and Buttons

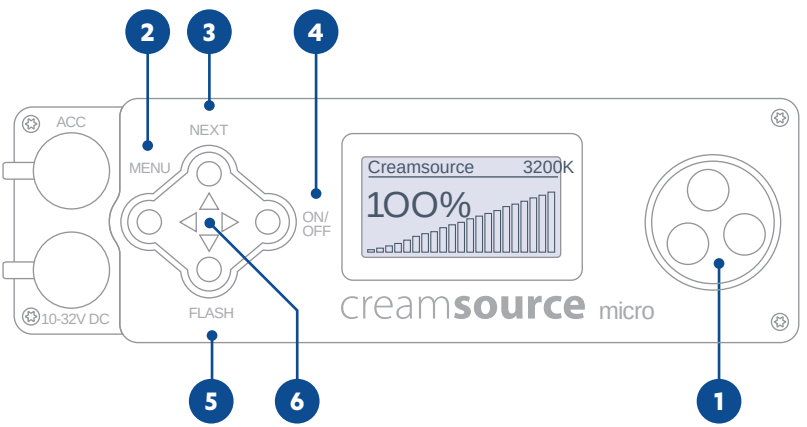
1) The control wheel adjusts the intensity or colour temperature of the light output. It is speed sensitive, so it can be turned slowly for fine adjustments, or quickly for rapid changes. It also is used to change other settings such as strobe frequency or dual flash level when using these modes.

Under normal operation the buttons have dedicated functions:

2) MENU - press to display menu
3) NEXT - press to select next setting to adjust (then use wheel to change)
4) ON/OFF - press to turn light on and off
5) FLASH - flashes light on or off when held down

When in the menu, the buttons have the following functions:

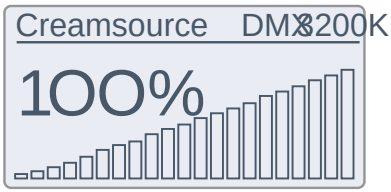
6) ◀ Back - press to go back a menu level. Hold to return to main screen
   ▲ Up - press to scroll up, or increase setting value. Hold to scroll quickly
   ▶ Select - press to accept current menu item or setting
   ▼ Down - press to scroll down, or decrease setting value. Hold to scroll quickly



5.2 LCD Display and Menu

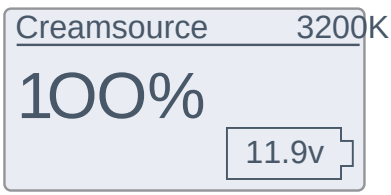
General Info Display

This is the normal display mode of the Creamsource. The current intensity level is displayed, along with additional information in the status area at the top of the screen:



- The text "DMX" appears when a DMX signal is detected,
- A lock icon indicates when the rotary wheel is locked
- The current CCT shows in the upper right corner of the screen
- Frame rate is displayed upper right when an external sync signal is present.
- 'EXT' is displayed in upper right when External Triggering mode is enabled.

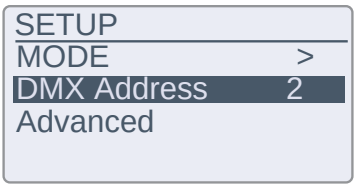
5.3 Low Battery Warning



If the input voltages falls below 12V, then a flashing battery icon will display on the screen, displaying the approximate input voltage. If the input voltage falls below 10V then the LED array will switch off. However, the display will still be operational.

Chapter 6: Change Settings with Menus

This display shows when in the menu system, allowing you to change settings. The status area shows the current menu level, or setting to be changed.

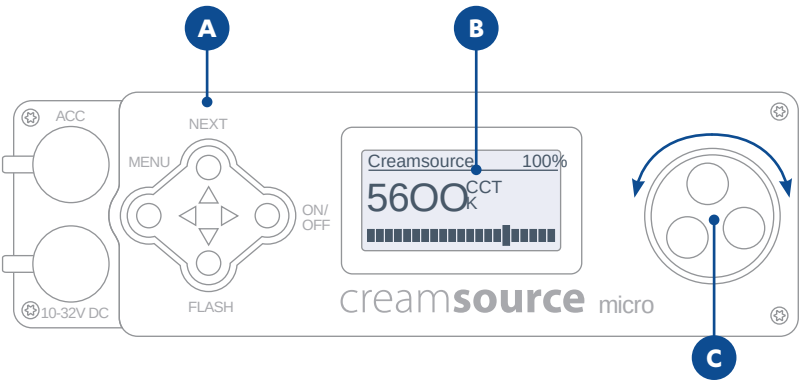


Use the ▲ and ▼ buttons to scroll up and down, and ▶ to select setting to change.

Use ▲ and ▼ to adjust value up and down. Press ◀ to go back a level.

6.1 Change Colour Temperature

To change the colour temperature press the NEXT button (A) until the CCT heading (B) is displayed. Then use the control wheel (C) to smoothly change through the available colour temperature range (2700K - 6500K). The display shows approximate colour temperature in Kelvin.



6.2 High Speed Mode

The dedicated High Speed mode for shooting at high frame rates can be accessed under MENU->High Speed. The actual maximum frame rate obtainable depends on the shutter angle. Smaller shutter angles increase the flicker effect.
With a shutter of 180º frame rates of over 2000fps are easily achievable in High Speed mode. See table below for maximum frame rates obtainable at different shutter angles.

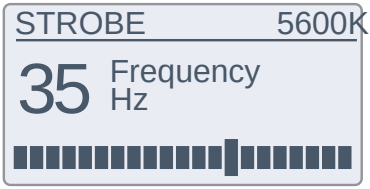
Camera Shutter Angle	Max Frame Rate in High Speed Mode	Max Frame Rate in Normal Mode
15°	300	30
45°	900	90
90°	1800	180
180°	3600	360
270°	5500	550
360°	7400	740

When in High Speed mode the dimming may not be as smooth, or as linear. For accurate dimming please disable High Speed mode.

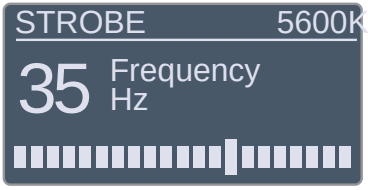
6.3 Smooth Low Dimming Mode

Smooth Low Dimming mode (MENU->Smooth Low Dimming) enables very smooth dimming at very low light levels. This activates an exponential dimming curve allowing for fine control at the low end.
Note that the display will not show accurate % levels when in this mode.
Different lighting modes and effects such as Strobe and Timed Flash are available under MENU->MODES.
Use the NEXT button to switch between settings for adjustment, then the wheel to change that setting. Each time NEXT is pressed, the next setting is selected
The ON/OFF and FLASH buttons can also be used as normal to switch the effect on/off or to create 'bursts'.

6.4 Special Modes



In special modes such as Strobe and Random, the display changes to show the selected setting when the **NEXT** button is pressed.



When the light output is turned off, the display goes negative (white text on black background).

Chapter 7: E ects Modes

7.1 NORMAL LEVEL

Normal is for using the light as a normal solid light source. Intensity and Colour Temperature (Bender models only) may be adjusted.
The ON/OFF button can be used to turn the light on or off, and the FLASH button can be used to create flashes.

SETTING	RANGE	DESCRIPTION
BRIGHTNESS	0-100%	Modeling light output level
COLOUR TEMP	2700k - 6500k	Approximate colour temperature

7.2 DUAL LEVEL

Dual level allows two light levels to be set. This is useful if you need a modeling light level, but then want to flash brighter for a lightning or strobe effect.
Use the ON/OFF button to turn on or off the modeling light, and FLASH button to flash up to the Flash Level setting.

SETTING	RANGE	DESCRIPTION
BRIGHTNESS	0-100%	Modeling light output level
FLASH LEVEL	1-50Hz	Light output when FLASH button pressed
COLOUR TEMP	2700k - 6500k	Approximate colour temperature

7.3 STROBE AND FLASHES

The ON/OFF button can be used to turn the effect on or off, and the FLASH button can be used to create 'bursts' of strobe

SETTING	RANGE	DESCRIPTION
BRIGHTNESS	0-100%	Strobe brightness level
FREQUENCY	1-50Hz	Frequency of strobe e ect
DUTY CYCLE	1-99%	Duty cycle of strobe e ect - the ratio between light OFF and ON times
COLOUR TEMP	2700-6500K	Approximate colour temperature

7.4 RANDOM FLASHES

Creates a random pattern of flashes that can be adjusted to look similar to lightning, welding or other flashing effects.

The ON/OFF button can be used to turn the effect on or off, and the FLASH button can be used to create 'bursts' of random flashing.

SETTING	RANGE	DESCRIPTION
BRIGHTNESS	0-100%	Maximum ash brightness
FREQUENCY	1-50Hz	Frequency of random e ect
LENGTH	2-200mS	Maximum length of any ash
VARIATION	0-100%	Amount the brightness is allowed to vary from the BRIGHTNESS setting. 0 = No Variation (ashes will all be same brightness). 100 = Flashes can be any brightness
COLOUR TEMP	2700-6500K	Approximate colour temperature

7.5 TIMED FLASH

Used to create flashes of a defined duration, similar to a Studio Strobe light. A modelling level can also be set.

The flash can be triggered by pressing the FLASH button, or if 'External Triggering' is enabled it can be triggered from an external source such as a camera hot shoe.

SETTING	RANGE	DESCRIPTION
BRIGHTNESS	0-100%	Modeling light output level
FLASH LEVEL	0-100%	Light output when FLASH triggered
FLASH TEMP	1/5th - 1/5000th sec	Duration the light is ashed ON for
COLOUR TEMP	2700-6500K	Approximate colour temperature

7.6 FLASH FRAMES

Use this mode to create flashes tightly synchronised to the camera shutter. Must be used in conjunction with a sync source such as Creamsource FlashBandit.
The duration of the flash ON and OFF is specified in Frames - e.g. Flash 1 frame ON, followed by 3 frames OFF, repeat.

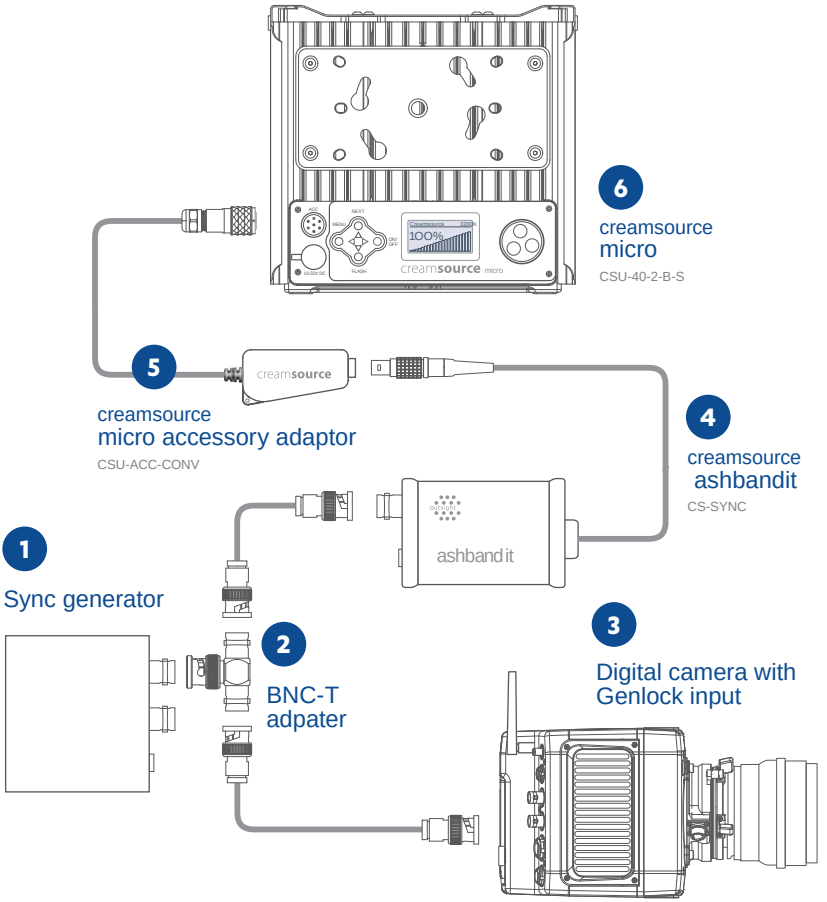
SETTING	RANGE	DESCRIPTION
BRIGHTNESS	0-100%	Maximum ash brightness
FRAMES OFF	1-255	No. of frames to ash OFF (i.e Skip)
FRAMES ON	1-255	No. of frames to ash ON
COLOUR TEMP	2700-6500K	Approximate colour temperature

Note: Calibrate Sync mode should be run first to make sure fixture is aligned with the camera shutter to prevent 'torn frames' on cameras with rolling shutter. See next chapter.

Chapter 8: Syncing

8.1 Syncing to Camera using Flashbandit

The Creamsource can be triggered from an external source, such as a sync generator box (e.g. Ambient ACL202CT Lockit box), to ensure that it is synchronised with the camera shutter. This can be used to solve the frame tearing / flash banding problem most digital CMOS (and in fact some CCD/ lm) cameras can have with any flashing or strobing light source.



Setup

1. Set correct framerate and format on Lockit box [1] (see instruction manual for device). This should match the frame rate and format you intend to shoot at
2. Plug a BNC T adapter [2] into the VIDEO/WORD output of the Lockit box
3. Connect camera GENLOCK input [3] to Lockit box [2] with coaxial cable. Follow camera instructions to enable external genlock input, and make sure camera is receiving genlock signal (if shooting on RED camera, see instructions on next page)
4. Plug Flashbandit adapter [4] into the Creamsource Accesory adaptor [5]
5. Plug the Creamsource Accesory adaptor [5] into Accessories input on Creamsource Micro [5]
6. Connect Flashbandit to Lockit Box using coaxial cable – blue light on Flashbandit should flash indicating valid signal
7. Check correct framerate is shown on Creamsource display
8. Calibrate with Flashbandit (see 8.2 for details)

Synchronising to framerates greater than 60fps to can difficult. For best results shoot at under this speed.

8.2 Calibrate with Flashbandit

This is a special mode used for calibrating the light to an external sync source, such as the FlashBandit sync box. It is used to make sure the camera shutter and Creamsource are synchronised, to prevent the flash-banding effects when shooting on a CMOS sensor camera. Access this mode by going to **MENU->EFFECTS->Calibrate Sync.** See next page for full details.

SETTING	RANGE	DESCRIPTION
PHASE	0-350 Deg	Phase o set of camera pulse
BRIGHTNESS	0-100%	Maximum ash brightness
COLOUR TEMP	2700k - 6500k	Approximate colour temperature

1. Setup as per page 19
2. Point camera directly at Creamsource light
3. Select MENU->MODES->Calibrate Sync on Creamsource. It will start to flash at the locked framerate
4. Use wheel to adjust phase on Creamsource. As you change the phase, a dark band should appear to move up and down on the camera monitor. Adjust until the dark band fills the monitor completely. Shooting with wide shutter angles and at higher speeds reduces the size of the dark band, making calibration more difficult.
5. The Creamsource is now calibrated. It can now be set to desired mode (Normal, Strobe etc) E.g. Select MENU->MODES->Normal

Shooting

Once the Creamsource has been calibrated, any of the modes may be used without the possibility of causing torn frames. The remote dimmer unit or DMX control can also be used safely. If the framerate, shutter angle or the phase of the camera shutter is adjusted, then you will need to re-calibrate.
You can use FlashBandit with more than one Creamsource unit only if you are NOT also using DMX or Remote. This is because the DMX or Remote overrides the communication channel between the Creamsources.

How to run multiple Creamsource WITH DMX/Remote:

1. You will need a FlashBandit unit for each Creamsource, and each unit will have to be calibrated (the same Phase angle will apply to all units).
2. Each Creamsource will then need to be set to the desired Mode (Strobe, Flash Frames etc)

How to run multiple Creamsources with Flashbandit and no DMX input

1. Link Creamsource together using DMX cable from DMX IN to DMX THRU connectors on back of unit
2. Plug the FlashBandit into the first unit (the Master)
3. Calibrate the Master unit as normal
4. Set up the desired effect on the Master
5. Set the second/third/fourth units (the Slaves) to 'Normal' mode - they will follow whatever the Master does

As there is communications required between the Master and Slave units, there will be a delay of around 500uS in synchronisation of the slaves. This may or may not be noticeable depending on the frame rate and shutter angle of the camera. Testing is highly recommended!

Note if you plug in DMX or Remote, then this will override the Master, and the Slaves will no longer be in sync. Note also the 'Timed Flash' effect will not sychronise between units, however all other effects will.

8.3 Slave Multiple Creamsource Units

Multiple Creamsource fixtures can be connected together to operate in unison, without an external DMX controller. Use DMX cable to connect the units together, and all units become automatically synchronised.

A DMX breakout cable is required to split out the DMX ports from the Accessories socket (Part Number CSU-DMX-Y).

A change on one unit (brightness, colour temperature etc.) will be reflected on all other units. This allows for a bank of Creamsource lights to be operated as if they were one large source.

To sync special effects modes such as Strobe and Random, the mode should be set up on one Creamsource unit only, with the other units set to Normal mode. This Creamsource fixture becomes the Master, and drives the others in sync with it. Any changes to settings, or using the ON/OFF and FLASH buttons should be done from this unit.

Note: Creamsource Micros, Minis, Doppios and Sky's all work seamlessly together.

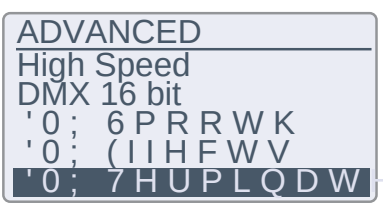
Chapter 9: DMX Control

Due to the small dimensions of the Creamsource Micro, it does not have full size XLR DMX connectors. Instead, the DMX signals are accessible by using a breakout cable plugged into the Accessory socket, which brings the signals out to 5 pin XLR connectors. Part number for the breakout cable is: CSU-DMX-Y

When a valid DMX signal is present, the manual controls for the unit are disabled. These are restored one second after loss of DMX signal.

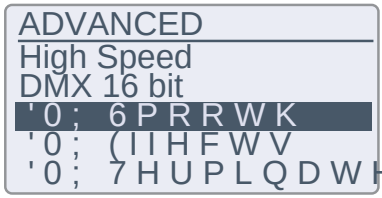
The DMX address can be set through the menu system, with each unit requiring 2 address slots in basic 8-bit mode. The first address will control intensity, and the next adjacent address controls colour temperature.

Termination



As with all DMX installations, the last unit in the chain should be terminated. This can be done through the menu system, by selecting MENU->Advanced->DMX Terminated.

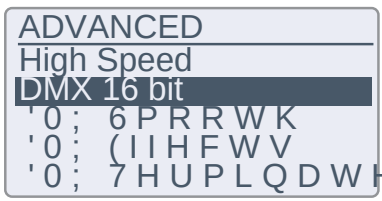
9.1 Smooth Fading



To add smoothing to intensity adjustments and remove the 'choppy' look of fades, there is an option to add smoothing to the DMX. This replicates a traditional tungsten look, with slight delay on the fader.

Enable this by selecting MENU->Advanced->DMX Smooth.

9.2 DMX Scenarios



There are several different DMX modes for different applications, from basic control of intensity and colour temperature to full access to special effects functionality over multiple channels.

Both 8 and 16 bit modes are supported. Please see page 27 for full description of modes. To enable 16-bit channel resolution, select MENU->Advanced->DMX 16bit To enable effects channels, select MENU->Advanced->DMX E ects

9.3 External Effects Triggering

You can use an external pulse to trigger any effect including Timed Flash and Dual Level Flash. This essentially gives you a way to remotely access the FLASH button, and performs the same function as pressing and releasing this button. External triggering can be enabled by selecting: MENU->Advanced->Triggering->External Trigger. When enabled, the text EXT appears in the upper right of the LCD display.

- The Rising pulse edge triggers the effect, and is the same as pressing the FLASH button in.
- The Falling pulse edge is the same as releasing the FLASH button.

An input voltage from 5V – 24V can be used for trigger. The input impedance is 180kΩ

Chapter 10: Accessory Port Pinout and Speci cations

Pinout for Creamsource Micro

Choose a 2 core cable of >17AWG (1.0mm^2) and wire both pins

Pin	Wire To
1	- Ve
2	+ Ve

Connector type to plug into Creamsource Lamp Head

Creamsource	Connector	Manufacturer	Part Number
Micro	Weipu 2 Pin Female	Weipu	SF1210/S2II

Connector type to plug into Creamsource Power Supply

Power Supply	Connector	Manufacturer	Part Number
CSU-PSU-90	Weipu 2 Pin Male	Weipu	SF1211/P2II

Accessories Port Pinout

Connector Type: Weipu Socket 7 Pin
Mating Plug: Weipu Plug 7 Pin SF1210/P7II

Pin	Description
1	TRIGGER Input +Ve (5-24V Input, referenced to GND)
2	DMX Data (-Ve)
3	DMX Data (+Ve)
4	RS232 RX
5	RS232 TX
6	GND, Ground Reference
7	+12V Output, 200mA maximum

Specifications for Creamsource Micro (CSU-40)

Specifications for complete system	
Complete system includes Lamp Head, Power Supply and Power Cables	
Model Number	K-CSU-2-B-xxx (where xxx indicates kit type)
Input	100-240V AC, 50-60Hz, 1.3A MAX
Environmental	Max Ta:40ºC
Certi cations	EN55015
	EN61547
	EN61000-3-2
	EN61003-3
	EN60598.2.17
	DIN EN62471:03 - Risk Group 1
	FCC Part 15, Class A
	AS/NZS 61347.1 & AS/NZS 61347.2.13
	RoHS

Specifications for Power Supply	
Model Number	CSU-PSU-90
Input	100-240V AC, 50-60Hz, 1.3A
Output	24.0V DC, 3.75A MAX
Environmental	Max Ta:40ºC
Protection Class	IP20
Weight	0.45kg / 1lbs

Specifications for Lamp Head	
Model Number	CSU-40-2-B-S
Input	10-32V DC, Max Ta: 40°C
Environmental	Max Ta:40ºC
Weight	2.5kg / 5.5lbs (excluding yoke)
Protection Class	IP65
Dimensions	220mm x 207mm x 105mm /8.7” x 8.1” x 4.1” (excl. yoke)
Cooling	Passive (No fans)

The front protection screen must be changed if it has become visibly damaged to such an extent that its effectiveness is impaired, for example by cracks or deep scratches.

DMX Implementation Tables

The Creamsource offers a number of different DMX implementations, in both 8 and 16 bit resolutions. These charts refer to software versions 5.0 and above. Under the Advanced Menu in the Creamsource, the following modes can be achieved by setting 'DMX 16bit' & 'DMX Effects' checkboxes as desired. When using the single colour Creamsource (i.e. Daylight or Tungsten) the CCT slot is still present, but is ignored.

Scenario	Resolution	Comments
1	8 Bit	Brightness, CC
2	8 Bit	Brightness, CC, Smoothing, Effects
3	16 Bit	Brightness, CC
4	16 Bit	Brightness, CC, Smoothing, Effects

For scenarios 1 & 3, smoothing is controlled by 'DMX Smooth' setting in the Advanced Menu in the Creamsource. For modes 2 & 4, it is controlled by the relevant channel and the 'DMX Smooth' setting in the Creamsource is ignored.

Scenario 1: 8 Bits - Brightness, CCT

Slot	Slot Name	DMX Value	Output Value
1	Brightness	000...255	0...100%
2	CCT	000...255	2700...6500K

Scenario 3: 16 Bits - Brightness, CCT

Slot	Slot Name	DMX Value		Output Value
1	Brightness	HI	00000...65535	0...100%
2		LO		
3	CCT	HI	00000...65535	2700...6500K
4		LO		

Scenario 2: 8 Bits - Brightness, CCT, Smoothing, Effects

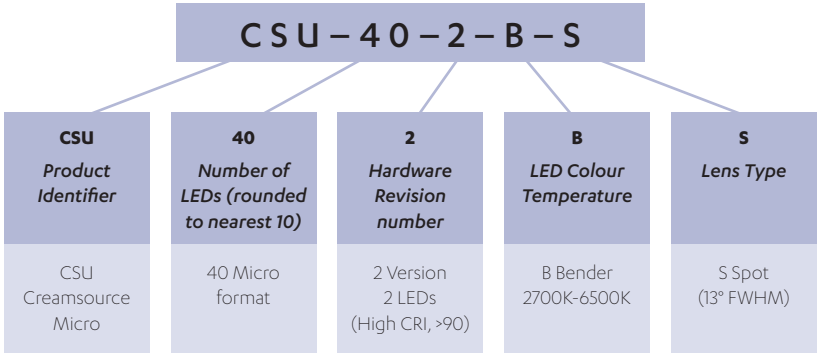
Slot	Slot Name	DMX Value	Output Value (Effect Name)
1	Brightness	000...255	0...100%
2	CCT	000...255	2700...6500K
3	Smoothing	000...127	Smoothing ON
		128...255	Smoothing OFF
4	E ects Rate	000...255	1...50Hz (Strobe) 1...50Hz (Random) 1-255 Frames OFF (Flash Frames)
5	E ects Duration	000...255	1...99% (Strobe) 2-200mS (Random) 1-255 Frames ON (Flash Frames)
6	E ects Mode	000...019	Normal
		020...029	Strobe E ect
		030...039	Random E ect
		040...049	Flash Frames E ect
		050...255	Reserved
7	E ects Variation	000...255	0...100%
8	E ect Trigger	000...127	E ect OFF (Flash Frames)
		128...255	E ect ON (Flash Frames)

Scenario 4: 16 Bits - Brightness, CCT, Smoothing, Effects

Slot	Slot Name	DMX Value		Output Value
1	Brightness	HI	00000...65535	0...100%
2		LO		
3	CCT	HI	00000...65535	2700...6500K
4		LO		
5	Smoothing	000...127		Smoothing ON
		128...255		Smoothing OFF
6	E ects Rate	000...255		1...50Hz (Strobe) 1...50Hz (Random) 1-255 Frames OFF (Flash Frames)
7	E ects Duration	000...255		1...99% (Strobe) 2-200mS (Random) 1-255 Frames ON (Flash Frames)
8	E ects Mode	000...019		Normal
		020...029		Strobe E ect
		030...039		Random E ect
		040...049		Flash Frames E ect
		050...255		Reserved
9	E ects Variation	000...255		0...100%
10	E ect Trigger	000...127		E ect OFF (Flash Frames)
		128...255		E ect ON (Flash Frames)

Part Numbers – what they mean

The compliance plate located on the bottom of the creamsource identifies the specific model, including colour temperature and lens type. See example part number below for explanation of how to interpret part numbers:



When supplied as a complete kit, including power supply and cables, the part number will have a K as a prefix. Check www.Outsight.com.au for up to date list of kitting options and part numbers.

Other products and accessories

Creamsource Sky with optional Snapbag Sofbox

Creamsource Doppio Gaffer Kit

Creamsource Mini Gaffer Kit