

GENERAL INFORMATION

Source Four LED is the merging of the Source Four and Desire product lines. It offers the high quality optics and control of a Source Four with the grace and powerful colour control of Desire.

Source Four LED Lustr+ luminaires are based on the x7 Color System[™] utilizing six colours plus high-intensity white to achieve true, usable broad-spectrum colour. Rich vibrant colours as well as subtle theatrical tints are all possible with this colour changing fixture. Explore new opportunities by pairing with classic incandescent light from the legendary Source Four line of fixtures to provide maximum flexibility and range.

Source Four LED Daylight provides high-output non-variable white light with a 5600K colour temperature.

Source Four LED Tungsten provides non-variable white light with a 3000K colour temperature.

Lustr+, Daylight, and Tungsten light engines work with all Source Four lens tubes to deliver a high quality controllable beam of LED light. For the best results it is highly recommended that EDLT versions are used. Note: A special LED only version of the 50° EDLT lens tube is available.

ORDERING INFORMATION

Source Four CE LED Light Engine with Shutter Barrel

(For use with fixed field lens tubes only)

PART NO.	DESCRIPTION	
7460A1251	Source Four LED Lustr+ w. shutter barrel, black	
7460A1261	Source Four LED Tungsten w. shutter barrel, black	
7460A1271	Source Four LED Daylight w. shutter barrel, black	

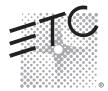
Source Four CE LED Light Engine - Body Only

(For use with zoom lens tubes and retrofit of existing tungsten fixtures)

PART NO.	DESCRIPTION	
7460A1250	Source Four LED Lustr+ - body only, black	
7460A1260	Source Four LED Tungsten - body only, black	
7460A1270	Source Four LED Daylight - body only, black	

Colour options: -1 = White, -5 = Silver Grey /Custom Colours Fixture ships with 1.5m PowerCon to bare ends power input lead and soft focus diffuser in gobo holder.

Please note: Lens tubes to be ordered separately.



SPECIFICATIONS

GENERAL

- 60 LED colour mixing profile spotlight fixture
- Rated for IP20 dry location use
- CE compliant
- Power and DMX in/thru connections for easy setup
- User-friendly control interface with multiple modes and fixture settings

PHYSICAL

- Rugged die-cast all-metal housing
- Available in black, white, silver grey (custom colour by request)
- Positive locking double-clutch yoke
- Slot for glass, stainless steel or film patterns and Soft Focus Diffuser Media
- Wide accessory slot with sliding cover for motorised effect devices or optional drop-in iris

ELECTRICAL

- 100VAC to 240VAC 50/60 Hz universal power input
- Max. consumption (see table on page three)
- Neutrik power in and thru connections
- Up to 9 fixtures may be linked via power in/thru connectors per 15A circuit using 1.0mm² cables as supplied
- Requires power from a non-dim source

LED*

- 50,000 hour LED life (50,000 hours to 70% intensity)
- 60 Luxeon® Rebel 2.5W LED emitters
 - *See additional LED notes on page three

COLOUR

- Exclusive x7 Color System[™] seven-colour LED array
- Broad-spectrum colour interacts seamlessly with conventional sources
- Beautifully illuminates skin tones and other objects for natural appearance and high colour rendering
- Exclusive optional red-shift option emulates tungsten dimming performance

OPTICAL

- Available with Lustr+, Tungsten or Daylight LED arrays
- Use the included soft-focus diffuser for creating washes or soft light
- Best performance using ETC's EDLT lens tubes
- Can use all ETC Source Four Interchangeable lens tubes: 5°, 10°, 14°, 19°, 26°, 36°, 50°, 70°, and 90° field angles as well as 19°, 26°, 36°, and 50°* EDLT lenses
 - *For best performance use the new LED-specific 50° barrel

CONTROL

- DMX512 in and thru via five-pin XLR connectors
- Multiple control options including RGB, strobe, and consolefree Master/Slave mode
- See DMX Control Table for additional information
- 15-bit virtual dimming engine provides smooth, high quality theatrical fades and minimizes color shift during dimming
- RDM functionality for address and setting changes

THERMAL

- Ambient operating temperature -20° to 40°C
- Active electronic thermal management for droop-free operation
- Quiet fan cooling
- Fixture is designed for continuous operation up to 40°C ambient temperature and requires free flow of air around fixture housing

ADDITIONAL ORDERING INFORMATION

Power Input Cables

PART NO.	DESCRIPTION	
7401B7008	1.5m PowerCon™ to bare-end power input cable 3x1mm2 (Spare)	
The above power input lead ships standard with each fixture.		

Power Thru Jumper cables

Jumpers connect to fixture's thru connector to provide link to successive fixtures

PART NO.	DESCRIPTION
7410K1101	1m PowerCon™ to bare-end power thru cable 3x1mm2
7410K1102	1m PowerCon [™] to PowerCon [™] fixture to fixture jumper cable 3x1mm2
7410K1103	2m PowerCon [™] to PowerCon [™] fixture to fixture jumper cable 3x1mm2
7410K1104	5m PowerCon [™] to PowerCon [™] fixture to fixture jumper cable 3x1mm2
7410K1105	1m fixture to fixture twin jumper cable with both power and DMX connectors
7410K1106	2m fixture to fixture twin jumper cable with both power and DMX connectors
7410K1107	5m fixture to fixture twin jumper cable with both power and DMX connectors

Diffusers

MODEL	DESCRIPTION	
7060A4019	S4 LED - Soft Focus Diffuser Media (Spare)	
7060K1001	S4 LED - Smooth Wash Diffuser Media for use in 159mm Colour Frames (19-26-36-50 Lens Tubes)	
7060K1002	S4 LED - Smooth Wash Diffuser Media for use in 190mm Colour Frames (14-70-90-Zoom Lens Tubes)	
7060K1003	S4 LED - Smooth Wash Diffuser Media for use in 305mm Colour Frames (10° Lens Tube)	
7060K1004	S4 LED - Smooth Wash Diffuser Media for use in 356mm Colour Frames (5° Lens Tube)	

The Soft Focus Diffuser fits into a standard gobo holder and delivers beautiful homogenised light when not in sharp focus. Also, use in combination with gobo patterns for dappled and soft edge projections.

The Smooth Wash Diffuser is used when extra-smooth blending of multiple Source Four LED fixtures is required. The smooth wash diffuser is placed into the gel frame slot of the lens tube.

RECOMMENDED LENSING OPTIONS (Lens Tubes sold separately)

Fixed Field Lens Assemblies

PART NO.	DESCRIPTION	
7460A2008	LED specific 50° EDLT Lens Tube, Black	
7460A2008-1	LED specific 50° EDLT Lens Tube, White	
7060A2048	36° EDLT Lens Tube, Black	
7060A2048-1	36° EDLT Lens Tube, White	
7060A2047	26° EDLT Lens Tube, Black	
7060A2047-1	26° EDLT Lens Tube, White	
7060A2046	19° EDLT Lens Tube, Black	
7060A2046-1	19° EDLT Lens Tube, White	
7060A2052-K	90° Lens Tube, Black	
7060A2052-K1	90° Lens Tube, White	
7060A2051-K	70° Lens Tube, Black	
7060A2051-K1	70° Lens Tune, White	
7060A2050-K	14° Lens Tube, Black	
7060A2050-K1	14° Lens Tube, White	
7060A2001-K	10° Lens Tube, Black	
7060A2001-K1	10° Lens Tube, White	
7060A2000-K	5° Lens Tube, Black	
7060A2000-K1	5° Lens Tube, White	

Zoom Lens Assemblies

(Use with light engine only models)

PART NO.	DESCRIPTION	
7060A2030-K	15°-30° Zoom Lens Tube w. Shutter barrel, Black	
7060A2030-K1	15°-30° Zoom Lens Tube w. Shutter barrel, White	
7060A2032-K	25°-50° Zoom Lens Tube w. Shutter barrel, Black	
7060A2032-K1	25°-50° Zoom Lens Tube w. Shutter barrel, White	

Power Consumption at Full Capacity

MODEL	VOLTAGE (V)	CURRENT (A)	MAX POWER WATTS
S4 LED Lustr+™	230	.606	139.4
S4 LED Daylight ™	230	.713	164
S4 LED Tungsten ™	230	.722	166

ADDITIONAL ORDERING INFORMATION

Accessories

PART NO.	DESCRIPTION	
7060A1012	S4 Drop-in Iris	
7060A4019	S4 LED - Soft Focus Diffuser Media (Spare)	
7060K1001	S4 LED - Smooth Wash Diffuser Media for use in 159mm Colour Frames (19-26-36-50 Lens Tubes)	
7060K1002	S4 LED - Smooth Wash Diffuser Media for use in 190mm Colour Frames (14-70-90-Zoom Lens Tubes)	
7060K1003	S4 LED - Smooth Wash Diffuser Media for use in 305mm Colour Frames (10° Lens Tube)	
7060K1004	S4 LED - Smooth Wash Diffuser Media for use in 356mm Colour Frames (5° Lens Tube)	
7060A1075	S4 Size B Metal Gobo Holder	
7060A1075-1	S4 Size B Glass Gobo Holder	
7060A1074	S4 Size A Metal Gobo Holder (For use in Iris slot)	
7060A1074-1	S4 Size A Glass Gobo Holder (For use in Iris slot)	

NOTES ABOUT LED LUMINAIRES

All LED sources experience some lessening of light output and some colour shift over time. LED output will vary with thermal conditions. Based on the LED manufacturer's B50 L70 specification, an ETC LED luminaire will achieve ~70% of its initial output after 50,000 hours of typical usage. In individual situations, LEDs will be used for different durations and at different levels. This can eventually lead to minor alterations in color performance, necessitating slight adjustment to presets, cues or programs.

CRI AND CQS RATINGS

Source Four LED fixtures were evaluated for CRI and CQS performance using measured output spectrum and optimised mix solutions for best spectral match to black body sources at 3200K and 5600K.

FIXTURE	CRI	CQS	Colour Fidelity	Duv
S4 LED Lustr+ Reg at 3200K	84	87	87	0
S4 LED Lustr+ Reg at 5600K	92	92	92	0
S4 LED Daylight at 5600K	71	70	69	0.001
S4 LED Tungsten at 3000K	86	86	86	0.001

All Source Four LED luminaire versions provide excellent colour rendering to the eye, particularly at higher colour temperature settings such as 5600K. In most cases the Duv is 0.000. A Duv rating of 0.000 indicates that the colour mix used is exactly on the black body line, with no green or magenta tint.

CONTROL OPTIONS

User settings on Source Four LED fixtures allow multiple operational modes and settings for either console operation via DMX protocol or stand-alone operation. The expanded LCD display provides easy navigation to all possible settings and options. Some of the setting options are:

- Multiple DMX choices ranging from a simple RGB profile – which effectively controls all seven LED colours via three channels – to nine-channel 'direct' colour and intensity control
- Multiple dimming curve options
- Preset colours and sequences for stand-alone (no console required) operation
- White point selection white light and colour behavior based on a specific colour temperature white light, i.e. 3200K, 5600K, etc
- Loss of data behavior options instant off, hold last look for two minutes, etc
- Output modes three output options that offer the user a choice between maximum output and maximum consistency

See the user manual for a complete explanation of all of the control settings and options for the Source Four LED.

Quick Setups

To assist in managing the numerous control and fixture behavior choices, five combinations of operational settings are available to quickly get started. These settings are specifically created for different applications and are easily accessible at the fixture display. Each setting can then be modified as required to take advantage of all of the possible control features.

Setting Title	Profile	Description	Typical Features*
General	Direct	Factory Default: For general purpose use including interior architectural applications	Standard dimming curve Regulated output for colour consistency
Stage	HSI Plus 7 Enabled	Theatrical lighting: Duplicates the colour and dimming behavior of tungsten stage lighting fixtures	Incandescent dimming curve Regulated output for colour consistency 3200K white point setting
XT Arch	HSI	Exterior architectural lighting: Provides a high degree of colour consistency in high ambient temperature envionments	Standard dimming curve Protected output 3200 white point setting
High Impact	RGB	Event lighting: Enables quickest response, simple RGB control and strobe channel for maximum effect usage	Quick dimming curve Boost mode for maximum intensity 5600K white point setting
Studio	Studio	Studio Factory Default: Enables three parameter control of white light (intensity, white point, and tint) via DMX from console or from fixture display – no console required	Linear dimming curve Regulated output mode for colour consistency

^{*}See user manual for complete list of features for each Quick Setup

CONTROL OPTIONS

DMX Input Channel Profiles

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DMX Profile	DMX Channels	Channel Assignments	Notes
Direct	10	1 – Red 2 – White 3 – Amber 4 – Green 5 – Cyan 6 – Blue 7 – Indigo 8 – Intensity 9 – Strobe 10 – Fan Control	Direct control of each individual colour with a separate master intensity channel. Colour calibration of LEDs is not active in this mode. The ten-channel profile will produce the highest quality colour crossfades.
HSI	6	1 – Hue (coarse) 2 – Hue (fine) 3 – Saturation 4 – Intensity 5 – Strobe 6 – Fan Control	High resolution hue (two-channels), saturation, and intensity control. HSI mode will produce arbitrary colour cross-fades around the colour space.
HSIC	7	1 – Hue (coarse) 2 – Hue (fine) 3 – Saturation 4 – Intensity 5 – Strobe 6 – Fan Control 7 – Colour Point (CCT)	High-resolution hue, saturation and intensity control as above, with the addition of a colour point channel to adjust the colour temperature of the fixture in both white light and colour. Colour cross-fade performance is the same as with HSI mode.
RGB	6 (Ch. 4 not used)	1 – Red 2 – Green 3 – Blue 4 – n/a 5 – Strobe 6 – Fan Control	Effectively addresses all seven colours via three channels of control. RGB profile will produce medium quality colour cross-fades
Studio	6 (Ch. 4 not used)	1 – Intensity 2 – Colour Point (CCT) 3 – Tint 4 – n/a 5 – Strobe 6 – Fan Control	Controls fixture as a white light unit. If no DMX, i.e. console input, is present, the fixture can be adjusted for these three parameters on the U/I at the back of the unit.
Addition	al profile op	tions	
Plus 7		Seven additional colour control channels are available in RGB, HSI, and HSIC input profile settings. For example HSI with 'Plus 7' enabled becomes a 15-channel profile:	
		1 – Hue (coarse) 2 – Hue (fine) 3 – Saturation 4 – Intensity 5 – Strobe 6 – Fan Control 7 – n/a 8 – Plus7 Control on/off 9 – Red 10 – White 11 – Amber 12 – Green 13 – Cyan 14 – Blue 15 – Indigo	The desired colour and intensity is achieved by using the HSI or RGB channels Placing channel seven at a value over 51% gives the fixture a 15-channel profile. Channels 9-15 represent the native colours of the fixture and allow the operator to adjust individual colour channels to fine tune the colour output.
Strobe		Variable strobe control: 0% is no strobe. The fixture output will strobe more rapidly as the strobe channel value approaches 100%.	

CONTROL OPTIONS

Studio Daylight and Studio Tungsten (only)

Quick Set-Ups

Setting Title	Profile	Description	Typical Features
Studio	Studio	Enables control of intensity from luminaire U/I; no console required	Linear dimming curveRegulated output for intensity stability
Single Channel	Direct	For general purpose architectural use	Standard dimming curve Regulated output for colour consistency
Stage	Direct	Matches conventional luminaire performance	Incandescent dimming curve Regulated output

DMX Input Channel Profiles

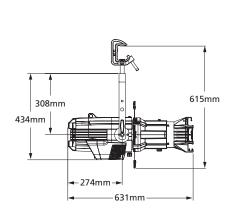
DMX Profile	DMX Channels	Channel Assignments	Notes
Studio	3	1 – Intensity 2 – Strobe 3 – Fan Control	Control of parameters is also enabled from the luminaire's user interface. No console required.
Direct	3	1 – Intensity 2 – Strobe 3 – Fan Control	

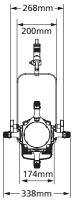
PHYSICAL

Source Fource LED Weights and Dimensions

	WEIGHT*	SHIPPING WEIGHT
	kg	kg
With Shutter Barrel	8.3	12.7
Without Shutter Barrel	6.5	10.4

^{*} Does not include mounting hardware or lens tube





AVAILABLE FROM





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