

SeaChanger Color Engine for ETC Source Fours

Unmatched Brightness & Versatility

The SeaChanger Color Engine is a dynamic new CYMG color changer for ETC Source Four Ellipsoidals. The SeaChanger uses patented Ocean Optics dichroic filter technology to create a nearly endless palette of stable, reproducible colors that do not shift or fade with time or temperature.

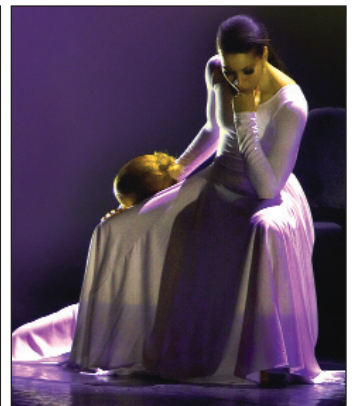
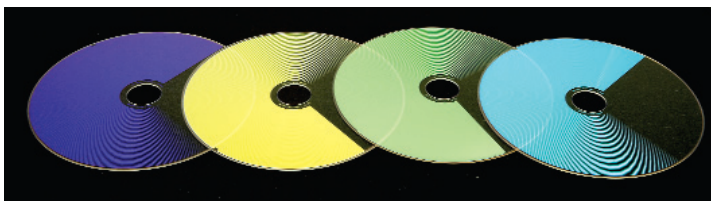
Patented "Extreme Green" RGB Filter

The SeaChanger employs four patterned dichroic filters -- cyan, yellow, magenta and a patented xG "Extreme Green" trichromatic RGB filter. The xG filter extends the CYM color gamut, enabling you to create deep blues, rich reds and vibrant greens. The xG filter also adds "natural" overtones and nuance to the standard CYM palette, creating a new dimension in realistic scenery lighting. Though the xG filter wheel is standard, a variable neutral density dimmer filter wheel is available in its place.



Dichroic Filters Resist Heat & Humidity

Our patented coatings method allows us to create micron-scale precision patterning of dichroic coatings on a single color wheel, with resolution, transmission efficiency and durability that's far superior to dye-colored gels and other technologies. Our filters are so hardened they are essentially ceramic in nature, making the filters resistant to heat and humidity and eliminating the need for noisy cooling fans.



Shhh . . . Can You Hear That?

The SeaChanger operates silently. That's because its dichroic filters are so robust that noisy cooling fans -- so distracting with gel scrollers -- aren't necessary.

Simple Installation, Maintenance-Free

The SeaChanger fits between the lamp and the lens module of the Source Four. With its convenient bayonet mount, the installation is quick and efficient. Simply transfer the Source Four's yoke onto the SeaChanger for suspension. (An optional extended 16.5" yoke for down lighting is available.) With the SeaChanger, there are no burned, broken or jammed gel strings to replace and periodic cleaning is as easy as removing a few setscrews.



See Color in a Whole New Light!

Compatibility

The SeaChanger is compatible with all beam-shaping ETC Source Four accessories including (clockwise, top left) gobos, gobo rotators, gobo changers and all field-of-view barrels.



DMX512, RDM & Manual Control

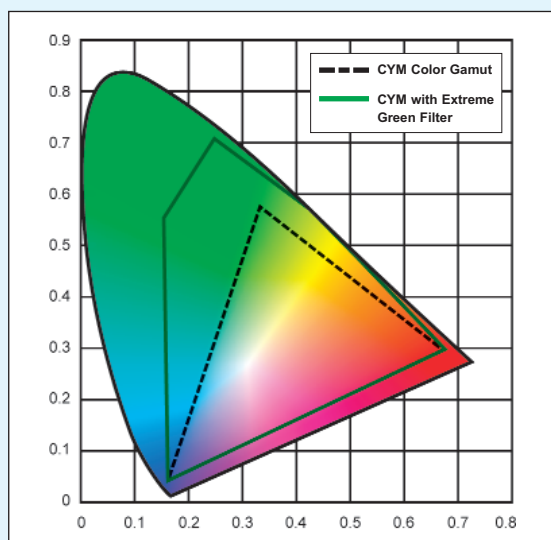
The SeaChanger is a self-contained unit with an internal power supply. You can operate the SeaChanger from a 4-channel DMX512 controller, from an RDM device, and from the SeaChanger's front-panel membrane keypad with 3-digit LED display.

Specifications

Ambient temperature:	113 °F (45 °C) maximum
Size/weight:	7.0" x 11.5", 12 lb.
Power input:	110-250 VAC, 50/60 Hz, (auto-sensing), non-dimmed circuit
Power supply:	Onboard, internal 5 V, 50 W switching mode PS
Control:	8-bit DMX512 controller via 5-pin male and female XLR; RDM device per ANSI E1.20-2006 Front panel membrane keypad with LED numeric display
Channels:	DMX start address set via RDM or onboard display: Channel 1 – Cyan, 0-95% saturation Channel 2 – Magenta, 0-95% saturation Channel 3 – Yellow, 0-95% saturation Channel 4 – Standard xG (RGB) filter, 0-99% saturation Channel 4 – Optional patterned AI douser, 0-99% dimming Channel 4 – Optional custom dichroic filter
Color mapping:	Nearly infinite color mapping within a gamut of the CIE triangulated color space; gamut extended by xG (RGB) filter
Speed:	0.3 seconds average from clear to full saturation
Beam characteristics:	Preserves all ETC Source Four beam characteristics
Accessory compatibility:	All beam-shaping ETC Source Four accessories such as Enhanced Definition Lens Tubes (EDLT), Source Four Zooms, gobos, gobo rotators, gobo changers, field-of-view barrels (10°, 14°, 26°, 36°, 50°, 70° and 90°), and other devices
Lamp compatibility:	575 W or 750 W HPL lamps; can be used with Source Four HID fixtures
White light output:	9,500 lumens total system output (SeaChanger + 26° Source Four with 750 W HPL lamp)
Color filters:	Dichroic patterned CYM and xG (RGB) coatings on optical glass substrates, BBAR coated, in-band transmission >98%
Mounting:	Suspension on Source Four yoke from mounting points; Bayonet mount to fixture; Adaptable to Source Four tungsten or HID fixtures
Maintenance:	Easy color engine removal for cleaning; safety cable ring; 3' safety cable included

Source Four is a registered trademark of Electronic Theatre Controls, Inc. (ETC). Neither Ocean Optics nor the SeaChanger is affiliated with ETC.

CYM vs. xG Extreme Green 1931 Standard Observer Chromaticity Diagram



x,y 2-degree observer

SEACHANGER



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