

# SeaChanger Extreme Green by Ocean Optics

The SeaChanger Color Engine is a CYMG color changer for ETC Source Four® Ellipsoidals. Through unique, patented processes, the ESTA Award winning SeaChanger yields the most robust and highest transmission dichroics available. These dichroic patterned filters allow the user to control the color, intensity and saturation of theatrical lighting to unprecedented levels of precision to create a nearly endless palette of stable, reproducible colors that do not shift or fade with time or temperature.

Operation of the SeaChanger is nearly silent because its dichroic filters are so robust that noisy cooling fans aren't necessary. Installation is quick and efficient, fitting between the lamp and the lens module of the Source Four, and 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.

The SeaChanger is compatible with all beam-shaping ETC Source Four accessories and 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.

The SeaChanger's patented xG "Extreme Green" tri-chromatic RGB 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.

With input from lighting designers around the world, Ocean Optics has refined their processes to create a uniquely sophisticated color engine that puts unmatched color, brightness and versatility at your fingertips. SeaChanger fills a niche between less expensive, high maintenance gel scrollers and higher priced moving lights.

It's time to see color in a whole new light!

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## 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 Al 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:	<1 second 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



**PRODUCTION ADVANTAGE, INC., PO Box 1700, Williston, VT 05495**

**Phone:** (800) 424-9991 or (802) 651-6915 | **Fax:** (877) 424-9991 or

(802) 651-6914 | **E-mail:** [sales@proadv.com](mailto:sales@proadv.com)

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