



Series cr7000 LED Marine Signal Module (one LED system shown)



SERIES CR7000 MARINE SIGNAL MODULE

The Series cr7000 LED Marine Signal Module and Series cr7100 LED Marine Signal Lantern are designed to be a superior alternative to incandescent lanterns in the 1 to 8 mile peak intensity visibility range with lower power consumption yet greater vertical divergence.

The module mounts onto a standard 155 mm marine lantern base in place of the 155 mm lens by six 10-32 bolts. It contains everything needed to replace the entire 155 mm incandescent system and includes the LEDs, the side emitting lens(es), the electronics and the Daylight Control Sensor. The predicted LED life of 100,000 hours makes the lantern much more reliable and reduces maintenance costs significantly when compared to the older incandescent lamp systems. The compact design of the CR7000 module greatly simplifies wiring and makes converting a 155 mm lantern into an LED light effortless. It is based on the patented CR Side Emitting LED lens which offers outstanding brilliance. This lens greatly simplifies the construction of the LED light head. This simplified optical system is lower in cost but can produce as much light as the large quantity LED systems presently on the market. The lens provides excellent uniformity in the horizontal plane (no molding seams) as well as a wide 7.5° to 10° symmetrical vertical divergence to 50% of peak intensity (FWHM). The state of the art flasher and driver circuits powering the LEDs provide high efficiency with its Pulse Width Modulated (PWM) Constant current driver for LED(s) assures consistent light intensity. The three hole mounting pattern of the module matches the pattern of standard 155 mm lenses which makes change-over of a standard 155 mm lantern into an LED light straightforward; just bolt it on with the three screws, connect the power and place it into service.

OPTIONS: • Infrared (IR) Remote Control Unit



Series cr7100 LED Marine Signal Lantern (two LED system shown)

recommendations of International Association of Lighthouse Authorities (IALA)

- **Constant** - current drivers for each LED for enhanced reliability
- **Lens:** Patented high efficiency, acrylic, excellent horizontal and vertical uniformity
- **Daylight Control:** On - 250 lux + 50 lux(dusk); Off - 320 lux (dawn) + 50 lux
- **LED Manufacturer Rated Life Expectancy:** 100,000 hours on steady - much longer when flashed
- **Electrostatic Discharge (ESD):** Electrostatic Discharge - IEC 61000-4-2, 15kV in air

Specifications:

- **Operating Voltage:** 8-24 V DC
- **Peak Light Intensity in Candelas:**

	7.5° Vertical Divergence	White	Green	Red	Amber
1-LED -	160	109	100	110	
2-LED -	320	218	200	220	

10° Vertical Divergence
White 300

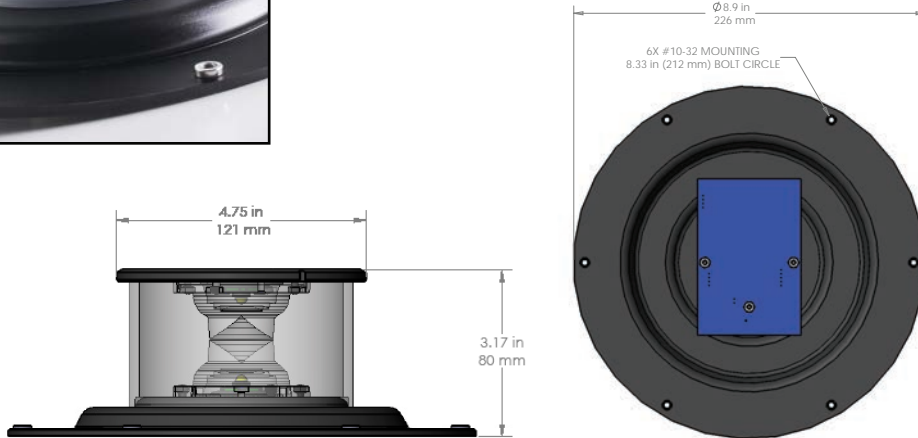
- **Vertical Divergence:** 7.5° or 10° to 50% of peak intensity (FWHM).
- **Intensity Settings:** Four (4) IR selectable intensity settings
- **Rhythms:** 252 selectable by IR remote control plus 4 additional spaces available for custom rhythms programmable by factory or IR remote control.
- **Temperature Range :** -40° C to +85° C
- **Colors Available:** Red, Green, White and Amber all meet rec-

Materials:

- LED Mounting Plate:** Hard coat anodized marine grade aluminum
- Protective Tube & Lens:** Acrylic - more scratch resistant and is superior to polycarbonate under Ultra Violet light exposure.
- Bird Deterrent:** Stainless Steel and removable for easier transport of the lantern

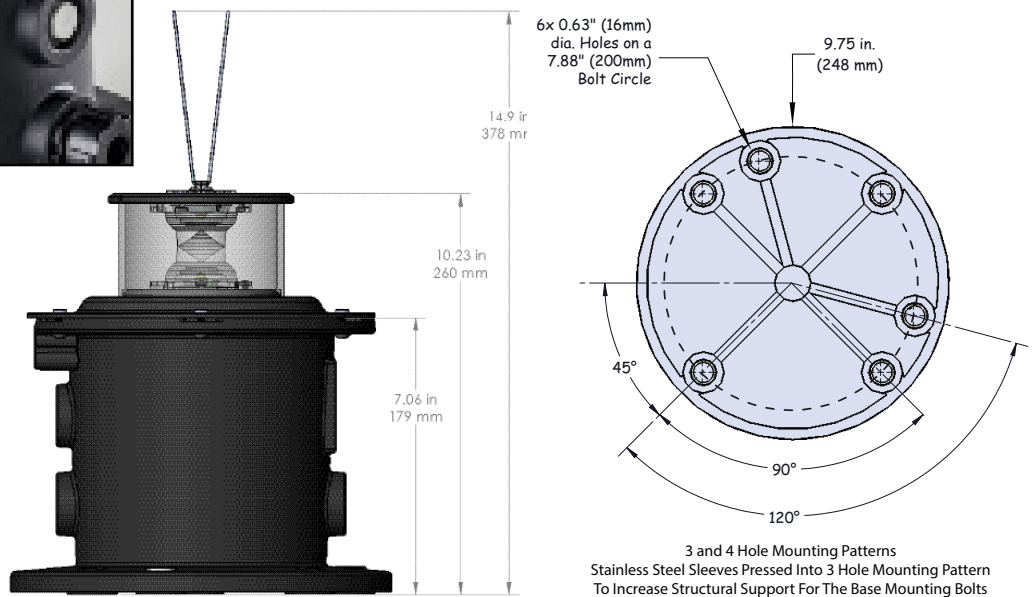


SERIES
CR7000
MARINE SIGNAL
MODULE



(two LED system shown in photos)

SERIES
CR7100
MARINE SIGNAL
LANTERN



U.S. Patents: 7,703,950 & 7,726,837

CR Control Systems Inc.

85 Mechanic Street, Suite E2-6, Lebanon, NH. 03784 USA 888-897-9391 - ph: 603-727-9149 fx: 603-727-9166 sales@CRCONSYS.com

www.CRCONSYS.com