ACR THE SCIENCE OF SURVIVAL

TWO COLOR - LED AND INFRARED ELECTRONIC DISTRESS FLARE & FLAG

# ResQFlare™ PRO

As the next advancement in electronic flares from ACR Electronics, the ResQFlare PRO introduces cutting edge SOS distress signaling technology. Utilizing red-orange and cyan LEDs combined with an infrared (IR) component, the ResQFlare PRO offers substantial operational life (burn time) while also significantly improving the level of visibility.

Sold with the included daytime distress flag, the ResQFlare PRO and accompanying flag are certified to meet the applicable U.S. Coast Guard requirements allowing them to be carried in lieu of traditional pyrotechnic flares in the U.S.


**Multi-Color LED & Infrared Light Array**

**Approved Replacement for Pyrotechnic Flares***

**Waterproof Buoyant Construction**

* Select countries only

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# ResQFlare™ Pro

## Two Color-LED and Infrared Electronic Distress Flare & Flag

Meeting the requirements of **RTCM 13200.00**, the buoyant ResQFlare PRO electronic flare is classified as an Electronic Visual Distress Signal Device (eVDSD) and utilizes multi-color SOS distress signaling to produce greater luminosity with substantially better light distribution. The use of red-orange and cyan LEDs allows for enhanced visibility on the water while the addition of an infrared (IR) component leads to even greater visibility when Night Vision equipment is in use by Search and Rescue.

The ResQFLare PRO facilitates rescue by emitting the flash characteristic for the International Morse Code for S-O-S, where the first "S" is represented by three red-orange LED flashes, followed by the "O" which is represented by three cyan LED flashes, and the final "S" which is represented by another three red-orange LED flashes. Simultaneous to the visible red-orange and cyan flashing LEDs, the IR component flashes the same S-O-S pattern that is optimized for visibility via Night Vision Goggles (NVG). Perhaps most impressive, even with the extensive number of visible and IR flashes occurring, the high level of light intensity produced, and the significant light distribution range (Luminous angle ≥ 180°) that is achieved, the ResQFlare PRO still attains an impressive operational life of at least three hours(exceeding RTCM requirements by 50%).

Meeting the requirements within 46 CFR 161.013, the ResQFlare is classified as an approved Night Visual Distress Signal. Given that a Distress Flag, meeting the requirements of 46 CFR 160.072, is included in the package with every ResQFlare PRO, users are also provided with an approved Day Visual Distress Signal (the requirement for carriage of approved day and night visual distress signals can be found in 33 CFR part 175). The supplied Distress Flag provides numerous daylight signaling options. The flag can be flown by attaching to the mast or simply hoisting to the highest possible point. It can also be displayed by hand, tied to, and then waved on items such as a boat hook, paddle, or fishing rod, or it can be laid flat on the deck to attract aircraft. The flag should be used only as a day signal and when displayed correctly, the black square should be over the black circle.

In the U.S.*, carriage of the ResQFlare PRO and Distress Flag together allows boaters to forego the requirement for traditional pyrotechnic flares when on vessels up to 65' in length, boating on the Great Lakes, within 12 miles of U.S. waters, or on any body of water with a passageway to the sea at least two miles wide. Vessels less than 16' are not required to carry a Day Visual Distress Signal but must still carry a Night Visual Distress Signal, making the ResQFlare PRO a more than viable alternative to pyrotechnic flares for vessels of this size as well.

With consistent light distribution over a significant range** and a burn time 15 times greater than the average pyrotechnic flares***, the ResQFlare PRO is clearly the "brightest" choice one can make.

*For approvals in other countries, see requirements of the applicable national authority to reference their specific acceptance of an eVDSD meeting RTCM 13200.00
**Luminous angle ≥ 180°
***Based on carriage of 4 pyrotechnic flares at an average burn time of 3 minutes each

- Highly Durable Construction (IEC 60945)
- Waterproof Buoyant Construction
- ≥180 Luminous Angle at ≥50 cd for high visibility (Range Plus)
- Multi-Color LED & Infrared Light Array (IR)
- Includes Distress Flag & Mounting Bracket
- 180 Minutes, 50% more than RTCM requirements


## SPECIFICATIONS

**Product Number:** 3967

| General | |
|---|---|
| Operational Temp. Range | 14°F to 149°F (-10°C to +65°C) |
| Storage Temp. Range | 14°F to 149°F (-10°C to +65°C) |
| Waterproof | IP67 |
| Battery | CR123 Lithium Battery (x8 - Not Included) |
| Dimensions | ø 4.41" x 8.78" (H) |
| Weight (excluding batteries and flag) | 570.6 g / 1.26 lbs (net weight) 704.8 g / 1.55 lbs (including batteries) |
| Buoyancy | Inherently Buoyant (no buoyancy/flotation ring necessary) |
| Warranty | 1 Year |

| Operation | |
|---|---|
| Operation Time | 3 hours at average effective intensity (surpasses RTCM requirements) |
| Average Effective Intensity | 50 cd |
| Maxmium Light Intensity | ≥ 90 cd |
| Light Source | A total of 17 LEDs: Red-Orange LED – 2W (x8) Cyan LED – 3W (x8) Near-IR (Infrared) – 2W (x1) |
| Visibility | 8+ miles |
| Environmental Performance | Dry heat, damp heat, low temperature, thermal shock, drop, vibration, solar radiation, rain & spray, corrosion, and EMC testing (as per IEC 60945) |

**Switch Design**

Waterproof magnetic switch with accidental activation protection

**Approvals**

- Meets RTCM Standard 13200.0 for Electronic Visual Distress Signals (eVDSD). Thereby meets USCG specifications for a Night Visual Distress Signal as required by 33 CFR part 175.
- CE
- RoHS

**Accessories (Included)**

- Daytime Distress Flag
- Mounting Bracket and associated mounting bracket screws
- Lanyard (1 m)

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