



Drew Marine  
Signal & Safety Australia

**PainsWessex**  
MARINE DISTRESS SIGNALS



Distress Flares & Smoke Signals | Aurora Flares  
Inshore Flare Kits | Offshore Flare Kits | Parachute Rockets  
Line Throwers | Manoverboard | Life Smoke  
Survivor Location Lights | Seamark Dye  
Ph: (03) 9650 1488 – [info@aurora-marine.com](mailto:info@aurora-marine.com)

# Aurora Flares - Australian Manufactured

## Orange Handsmoke MK2



The Pains Wessex Aurora Orange Handsmoke is for **DAYLIGHT USE ONLY** and emits a dense cloud of vivid, expanding orange smoke.

This cloud is visible for up to 60 seconds at more than 4km away when viewed at sea level. When viewed from an aircraft it is visible from a greater distance.

Strong winds will reduce visibility range. A raised 'O' on the top cap enables this signal to be identified in low light situations.



## Red Handflare MK2



The Pains Wessex Aurora Red Handflare is for **NIGHT USE** and emits a brilliant red light which burns for 60 seconds and can be seen up to 20km away by an aircraft and 10km away at sea level. A raised '+' on the top cap enables this signal to be identified in low light situations. Can be used in daylight with reduced vision range.



### INSTRUCTIONS FOR USE

A hand is shown unscrewing the cap of the flare. A curved arrow indicates the direction of rotation.	A hand is shown pulling a tab on the flare upwards and outwards. An arrow indicates the direction of movement.	A hand is shown holding the flare outwards, away from the body.
<b>1</b> Unscrew cap	<b>2</b> Pull tab up & out quickly and firmly	<b>3</b> Hold out to leeward

# Marine Leisure

## Aurora Inshore Distress Kit



### Inshore Distress Kit

This popular kit contains 2 Aurora Red Handflares and 2 Aurora Orange Handsmoke Signals. This kit is available from all leading marine retail outlets throughout Australia. The Inshore Distress Flare Kit is required to be carried on board most boats, in most parts of Australia.

Thanks to the distinctive packaging, this flare kit makes it easy for boaters to keep their flares up to date and in good operating condition. The pack has a clear panel that allows boaters to sight the signals contained inside. And thanks to the conveniently located, easy to read expiry date, boaters are able to see exactly when it is time to obtain a fresh set of flares.

Simple to follow operation instructions are printed on both on each individual Aurora flare plus the outside of the Inshore Distress Flare Kit package.

Stow your flares in a safe, dry environment, away from sources of heat and out of direct sunlight. Be sure to also get a Pains Wessex Safety Grab Bag or Poly Storage Bottle. This way your Aurora flares and other safety items will be all in the one place to make your safety plan easy to implement.



# Marine Leisure

## Parachute Rockets

### Parachute Red Distress Rocket MK8A

**APPLICATION** For use in day and night for long range distress signal situations.

**COLOUR OF LIGHT** Red

**DURATION OF BURN TIME** 40 Seconds

**LIGHT INTENSITY** 30,000 Candella

**HEIGHT** 300m

**IGNITION** Base pull wire igniter

**LENGTH** 295mm

**DIAMETER** 32 mm

**WEIGHT** 235 gm

**OTHER INFORMATION** This burns for 40 seconds and can be seen up to 40km away at night and 15km during daylight. Designed to withstand exceptional environmental exposure, performs reliably even after immersion in water; compact design for easy liferaft stowage.



## WA Kit

The WA Kit contains 2 Parachute Red Rocket and 2 Aurora Orange Handsmoke signals. These Kits are required to be carried in Western Australian waters when more than 5 nautical miles from shore.



# Marine Leisure

## SA Offshore Kits

The SA Offshore Kit contains 2 Parachute Red Rocket, 2 Aurora Orange Handsmoke and 2 Aurora Red Handflares.

This kit is required to be carried in South Australian Waters for vessels in unprotected waters more than 10 nautical miles from shore.



## Victorian Offshore Kits

The Victorian Offshore Kit contains 1 Parachute Red Rocket, 2 Aurora Orange Handsmokes and 2 Aurora Red Handflares.

This kit is required to be carried in Victorian waters more than 2 nautical miles from shore in the open ocean.



Various State Regulations.

The carriage of distress signals varies from state to state.

End users should ensure that you are compliant with the appropriate regulations that are applicable to you.

# Marine Leisure

## Parachute illumination Rocket

### Parachute illumination Rocket MK8

**APPLICATION** A day or night collision warning signal, or used at night to illuminate areas for search and rescue operations.

**COLOUR OF LIGHT** White

**DURATION OF BURNTIME** 30 Seconds

**LIGHT INTENSITY** 90,000 Candella

**HEIGHT** 300 m

**IGNITION** Base pull wire igniter

**WEIGHT** 270gm

#### OTHER INFORMATION

Designed to withstand exceptional environmental exposure and proven reliability even after immersion in water; the pull wire igniter and improved grip provides easy handling.



## White Handflares

### White Handflares

**APPLICATION** For use in day and night short range warning collision situations and for illuminating small areas for search and rescue operations.

**COLOUR OF LIGHT** White

**DURATION OF BURNTIME** 60 Seconds

**LIGHT INTENSITY** 2,500 Candella

**IGNITION** Top pull wire igniter

**WEIGHT** 160gm



# Marine Leisure

## Day & Night MK5

Compact, handheld distress signal consisting of a red flare at one end and an orange smoke at the other.

**APPLICATION** For use in day and night. Short range distress signal used to pinpoint position.

**COLOUR OF LIGHT** Dense Orange smoke for a day use, and red flare for day and night use.

**DURATION OF BURNTIME** Orange smoke for 15 seconds minimum and red flare for 17 seconds minimum.

**LIGHT INTENSITY** 10,000 Candella

**IGNITION** Pull ring activation

**LENGTH** 138 mm      **DIAMETER** 45mm      **WEIGHT** 235gm

**OTHER INFORMATION** Flare end is ribbed to aid identification at night. Each end fires independently, ideal for divers.



## Day & Night MK8

Compact, handheld distress signal consisting of a red flare at one end and an orange smoke at the other.

**APPLICATION** For use in day & night. Short range signal used to pinpoint position

**COLOUR OF LIGHT** Dense orange smoke for day and red flare for day and night use

**LIGHT INTENSITY** 15,000 Candela

**DURATION OF BURN TIME** Orange smoke for 18 sec and red flare for 20 sec

**IGNITION** Pull ring activation

**LENGTH** 190mm      **DIAMETER** 30mm      **WEIGHT** 170gm

**OTHER INFORMATION** Each end fires independently.



# Personal

## Distress Signals

### Miniflare MK8 Personal Distress Signal

Lightweight, compact pack containing 9 red aerial flare cartridges and a penjector firing mechanism in a tough, water resistant case. The penjector is fitted with a stainless steel spring and striker pin.

**APPLICATION** For use in day and night long range distress signal situations.

**COLOUR OF LIGHT** Red Flare

**DURATION OF BURNTIME** 5.5 seconds minimum

**LIGHT INTENSITY** 10,000 Candella

**IGNITION** Penjector System

**HEIGHT** >46m

**WEIGHT** 170gm

**OTHER INFORMATION** 9 Red cartridges per miniflare. Each cartridge projects its payload to a height of over 40m. Unique slot fitting with a simple slide on action for loading the cartridges.



### Compact MK8 Personal Distress Signal

A smaller version of the Miniflare MK8 Personal Distress Signal, with the penjector incorporated into the case which contains 3 red cartridges. Connected to an elastic lanyard to avoid them being lost when the base cap is removed.

**APPLICATION** For use in day and night and night long range distress signal situations.

**COLOUR OF LIGHT** Red Flare

**DURATION OF BURNTIME** 5.5 seconds minimum

**LIGHT INTENSITY** 10,000 Candella

**IGNITION** Penjector System

**HEIGHT** >46m

**WEIGHT** 74gm

**OTHER INFORMATION** 3 Red cartridges per miniflare. Each cartridge projects its payload to a height of over 40m. Unique slot fitting with a simple slide-on action for loading the cartridges.





# Additional Safety Equipment

## Stowage & Seamark Dye

### Stowage

Pyrotechnic distress signals should be stored in a readily accessible container such as a Poly Bottle or water resistant Pains Wessex Safety Grab Bag. Be sure that others on board know where the safety equipment is stowed and they make themselves familiar with how to use the products.

**Pyrotechnics should be protected from vibration, shock and moisture.**



### Seamark Dye

Seamark is a new concept in marine dye markers used for daytime emergency distress signalling and search and rescue marking. The unique feature of SEAMARK is that the fluorescein is bonded in a buoyant water soluble matrix, allowing for a rapid surface spread over a large area and for a slow release on the water surface, where maximum U.V. light activation of the fluorescein assures a brilliant spotting mark.

Because of its high efficiency, packs of SEAMARK are available to suit all boats, yachts and survival craft, as well as snorkelers, divers, sailboarders, jet-skiers and over-water aviators. It can be placed in pockets, pouches and with distress kits, or attached to lifebuoys and lifejackets.



Seamark  
Air Drop Pack  
100grams

Seamark Generic Boat Pack 40grams



Seamark 20 gram bottle

# Marine Commercial

## SOLAS approved products

### Red Handflare MK8

Unique, compact, telescopic handle allows easy extension for safe operation and saves space in stowage.

**APPLICATION** For use in day or night. Short range distress signal used to pin point position.

**COLOUR OF LIGHT** Red

**DURATION OF BURNTIME** 60 Seconds minimum

**LIGHT INTENSITY** 15,000 Candella

**IGNITION** Top pull wire ignitor

**WEIGHT** 160gm

**LENGTH** 175 mm

**LENGTH WITH HANDLE PULLED OUT** 280mm

**DIAMETER** 28mm

**OTHER INFORMATION** Designed to withstand exceptional environmental exposure. Performs reliably even after immersion in water. Unique telescopic handle with improved grip, making it compact for stowage. Easily extended for safe handling and operation. Designed for stowage in liferaft.



### Parachute Red Distress Rocket MK8A

**APPLICATION** For use in day and night long range distress signal situations.

**COLOUR OF LIGHT** Red

**DURATION OF BURNTIME** 40 Seconds

**LIGHT INTENSITY** 30,000 Candella

**HEIGHT** 300m

**IGNITION** Base pull wire igniter

**WEIGHT** 235 gm

**LENGTH** 295mm

**DIAMETER AT HANDLE** 38mm

**DIAMETER** 32mm

**OTHER INFORMATION** Designed to withstand exceptional environmental exposure, proven reliability even after immersion in water. Compact design for easy liferaft storage.



# Marine Commercial

## SOLAS approved products

### Lifesmoke MK9

The Pains Wessex Lifesmoke MK9 is a compact, daylight distress signal designed to be easy and safe to handle. It provides effective position marking during rescue operations and can be used to indicate wind direction.

**APPLICATION** For use in day distress signal situations and to mark the position during a rescue operation.

**COLOUR OF LIGHT** Dense orange smoke

**DURATION OF BURNTIME** 3 minutes minimum

**IGNITION** Top percussion igniter with 2 second safety delay

**WEIGHT** 365gm

**HEIGHT** 114 mm

**DIAMETER** 82mm

**OTHER INFORMATION** Safe to use on petrol or oil covered water. Designed for stowage in liferaft.



### Manoverboard MK9

**APPLICATION** Day and night signal attached to a 4 kg lifebuoy (not supplied) and used in an emergency to mark position of a man overboard.

**COLOUR OF LIGHT** Dense orange smoke

**DURATION OF BURNTIME** 15 minutes

**LIGHT INTENSITY AND DURATION** 2 Candella for 2 hours

**IGNITION** Percussion ignition with 2 second safety delay

**WEIGHT INCLUDING BRACKET AND ANGLES** 3.85 Kg

**HEIGHT** 375mm

**DIAMETER** 183 mm

**LAMPS (Bulbs)** 2 x 3.6v 2.0a screw fit, inversion switched, LED light units.

**OTHER INFORMATION** Approved mounting height: 56m drop into water (SOLAS 30m). Safe to use in petrol or oil covered water. Use with lifebuoy weighing 4kg. Attached to lifebuoy with line, 4m long, 9.5mm diameter.

**The Mk9 MOB will fit inside a standard lifebuoy.**



# Marine Commercial

## SOLAS approved products

### Linethrower 250

Self-contained line-throwing appliance that is fully compliant to the last international SOLAS/MED and USCG legislation and meets worldwide approval standards. A solid propellant rocket is used which guarantees a highly accurate flight path-even in strong side winds.

**APPLICATION** All line throwing operations at sea between vessels, ship to shore, shore to ship and shore based rescue services.

**IGNITION** Twist-grip trigger

**WEIGHT** 4.3kg

#### OTHER INFORMATION

Throwing range >230m

**LINE BREAKING STRAIN** >2kN

Replacement rockets available.



### Replacement Speedline Rocket 250

Replacement rocket for use in linethrower 250 available, as the rocket component of the speedline has a 3 year expiry date.

**APPLICATION** All line throwing operations at sea between vessels, ship to shore, shore to ship and shore based rescue services.

**ROCKET WEIGHT** 467gm

#### OTHER INFORMATION

Throwing range >230m, replacement rockets are provided with instructions for fitting.

**LINE BREAKING STRAIN** >2kN



#### INSTRUCTIONS FOR USE



# Miscellaneous

## Lightsticks

### Cyalume Lightsticks

Cyalume lightsticks are provided in waterproof foil packaging made to a long established military specification which provides performance, ruggedness and shelf life. Product is environmentally friendly and non-flammable before and after activation.

#### CYALUME LIGHTSTICKS

6" 12 HOURS Available in: Green, Red, Yellow and Orange

#### CYALUME LIGHTSTICKS

6" 8 HOURS Available in: White and Blue



## Waterproof Matches

### 25 Wind and Waterproof Matches

are provided in a resealable plastic container. The product is designed to produce a flame outdoors in windy and difficult ignition conditions.



## Birdscare Humming Line

### Bird Scare Humming Line

is a special 5 kg breaking strain monofilament U.V. stabilised tape which vibrates in the wind (even a very slight breeze) emitting a humming sound which detracts birds. This greatly assists in reducing bird fouling and crop damage, in many instances.



# Survivor Location Lights

## LED Lifejacket Lights

### DAN M3

This flashing LED low profile light is a single compact flashing light. It is manually activated by pressing the switch on the front of the light. The light is emitted through an ultra low profile dome, making the light less susceptible to damage during evacuation. Easily fitted with two different backing plates, one to go over a thin strap and one to go over a 5cm belt.



All Daniamant Life Jacket lights are designed to deliver a minimum 0.75cd output specification and 8 hour duration required by IMO SOLAS regulations.

### DAN W3

This light is the automatic version of the Dan M3. The light activates automatically when in water and can be turned off manually if required.



## Life Jacket Lights

### L6 MANUAL

The L6 is a one piece, manually activated light supplied with a mounting clip. Intense incandescent light visible for up to 2 miles in clear conditions with an operating life exceeding 8 hours. Waterproof, corrosion and temperature resistant case with a simple pull ring operation even with gloved hands or in adverse conditions. Easy fixing with the various option attachments available.



### L6 AUTOMATIC

The L6A is a one-piece, automatically activated light supplied with a mounting clip. The light flashes between 50-70 times per minute and exceeds 0.75 candela light output. With a similar build standard to the L6 it meets IMO SOLAS requirements. Housed in a waterproof, corrosion and temperature resistant case it has an operating life exceeding 8 hours and a unique integrated water sensor switch to turn the light off. The L6A is easy to install on most types of lifejackets saving on labour costs. Its small size makes it easy for stowage of lifejackets and it has various optional attachments fittings available.



# Survivor Location Lights

## Intrinsically Safe Life Jacket Lights

### L6-EX MANUAL

The L6-EX Manual is a small, flashing lifejacket light meeting the latest stringent IMO SOLAS requirements. Supplied with mounting clip, with a simple pull ring activation. Incandescent light visible for a minimum of 8 hours with a light output of 0.75cd.



### L6A-EX AUTOMATIC

The L6-EX Automatic is very similar to the L6-EX Manual, but it's an automatic light. It uses a lead to make sure the light comes on in the water and allows the light to be switched off if required. Incandescent light visible for a minimum of 8 hours with a light output of 0.75cd.



Both these new lifejacket lights also offers for the first time in the world, a lifejacket light that is also intrinsically safe (ATEX, IECEx) and can be used in hazardous installations where there are potentially explosive atmospheres.

## Liferaft Lights

### RL6

The RL6 is a high intensity flashing light for mounting externally on liferafts, together with a continuous light for internal illumination of the raft. The unit is fully sealed and watertight, and comprises a battery and switch unit which houses the internal lamp with a flying lead terminating the external flashing lamp. A single point break-away toggle is provided to switch on both lamps. Lamps can be controlled individually if required.



The external light is designed to produce a minimum of 4.3cd in all directions for 12 hours. The RL6 Internal Light also features an ultra-flat profile to further aid packing into the Liferaft. The internal light is designed to produce a minimum of 0.5cd in all directions for 12 hours. The battery pack has a maximum shelf life of 5 years from date of manufacture.

### RB2-RL4-RL I

The well-established RL/RB system continues to be available. It comprises of the RB2 battery pack, which is fitted to the RL1 internal light or the RL4 external light (requires 2 x RB2 batteries). The battery is connected to the lead by a polarised seal plug. This is fixed in place by a screw locking ring, which enables easy service and replacement.



# Survivor Location Lights

## LED Lifebuoy Lights

### L160

- SOLAS/MED approved
- 5 year life
- No maintenance or replacement batteries are required
- Compact size
- 76 meter drop height, exceeding SOLAS requirement
- Easy fitting
- LED Technology
- Exempt from Class 9 Dangerous Goods transport requirements



## Intrinsically Safe Lifebuoy Lights

### L161

- SOLAS/MED approved
- ATEX/IECEX approved
- ETL listed
- **Intrinsically safe, for use in ALL potentially explosive zones**
- 5 year life ,no maintenance or replacement batteries are required
- Compact size
- 76 metre drop height, exceeding SOLAS requirement
- Easy fitting
- LED technology
- Exempt from Class 9 Dangerous Goods transport requirements





# Survivor Location Lights

## L170 Lifebuoy Lights

### L170 Lifebuoy Lights

This is available in two versions. We offer a commercial version and a version with a unique bracket specially designed for mounting with leisure lifebuoys. Both versions are fully SOLAS approved and only differ in the brackets supplied. Both brackets are designed for easy fitment.

### L170 L "Leisure"

- 5 year battery life
- 76 metre drop height- 30 metres is the usual standard
- Easy mounting
- Light weight (approx. 100grams)
- Advanced LED technology
- Compact size (Fits in the palm of your hand)
- Unique pull toggle



### L170 C "Commercial"

- 5 year battery life
- 76 metre drop height- 30 metres is the usual standard
- Easy mounting
- Light weight (approx. 100grams)
- Advanced LED technology
- Compact size (Fits in the palm of your hand)
- Unique pull toggle



## Lifebuoy Lights

### L90

The L90 uses 5 alkaline batteries, offering a one year life span. Robust and reliable, the L90 is automatically activated after release. Tested and approved to 60m.

All Daniamant Lifebuoy lights are designed to deliver as a minimum standard, the 2cd output specification and 2 hour duration required by IMO SOLAS regulations.

The L90 is provided without batteries.



# Safety Information

## DO'S

- Make sure your signals are always in date
- When stored in a container ensure the signals are padded and wrapped to avoid vibration.
- Use in accordance with instructions
- Always store in a container
- Ensure your crew know where the signals are stored
- As a part of your safety briefing, ensure crew are familiar with how to operate your distress signals
- Only use in an emergency situation
- Point signals outward/down wind and away from your body as per instructions
- Use red flares by day or night
- Use orange smoke in daylight
- Seek medical advice in an advent of injury

## DON'TS

- Do not use after expiry date
- Do not expose to extremes of temperature humidity and damp
- Do not dismantle
- Do not use if damaged or dented
- Do not store or place near sources of heat or where children have access
- Never fire distress signals if not in an emergency situation as vital rescue services will be falsely alerted
- Do not use in confined spaces as signals are designed for outdoor use only
- Do not point at people or property as some products eject projectile components or produce hot flames and dense smoke
- Never use normal mail to transport these products



# Drew Marine Signal & Safety Australia Pty Ltd

Drew Marine Signal and Safety Australia  
ABN 36 158 528 726

PO Box 158 Collins Street West  
Melbourne, Victoria Australia 8007

Suite 2, Level 11  
276 Flinders Street  
Melbourne, Victoria Australia 3000

Ph (03) 9650 1488  
Fax (03) 9639 8811  
Email [info@aurora-marine.com](mailto:info@aurora-marine.com)

**Aurora**

**Pains Wessex**  
Australia



# Drew Marine Signal & Safety Australia

Contact us or your local distributor  
for any further information

[www.aurora-marine.com](http://www.aurora-marine.com)

© Copyright 2014

Drew Marine Signal and Safety is continually developing new products and therefore specifications and features on products are subject to change without notice.