

# Comet

MARINE DISTRESS SIGNALS



MARINE  
DISTRESS  
SIGNALS



## **Trusted by the world's navies, commercial craft and leisure sailors**

When you specify lifesaving equipment for your vessel, you need to know – beyond any doubt – that it is the most reliable and cost-effective available. With Comet advanced pyrotechnic marine distress signals, you can be sure you have made the right choice.

## **The leading light – worldwide**

Comet, one of the world's leading brands of pyrotechnics for the commercial and leisure marine markets, has been saving lives around the globe more than half a century.

Our comprehensive range of marine distress signals and safety systems are trusted for their reliability by the world's navies, lifeboat and rescue services, merchant fleets and airlines, as well as by fishing vessels and leisure craft.

## Quality you can rely upon

The quality, technological superiority and innovative design of our products – combined with worldwide SOLAS approvals, including MED and USCG, and manufacturing to ISO 9001 standard – has placed Comet at the forefront of marine safety. Moreover, with distributors in 70-plus countries, specifying Comet marine distress signals is simple and makes sound commercial sense.

## From individual products to purpose-designed packs

Comet products are available not only as individual rockets, flares, smokes and markers, but also integrated into special Distress Packs.

These packs are purpose-designed for the many different types of boating, whether close to shore or deep sea and where either short or long-range signalling is required. In addition, the packs are extremely convenient to take and keep on board your vessel.







**Hapag-Lloyd**  
Kreuzfahrten



Safety of life at  
Sea (SOLAS)



Marine Equipment  
Directive (MED)



US Coastguard  
Approved

## LINETHROWER 250

Art no. 9160400 - complete unit comprising

Art no. 9160500 - body and line

Art no. 9162700 - rocket (aluminium) or

Art no. 9112700 - rocket (USA and Japan only)

Self-contained, single shot, line-throwing appliance that is fully compliant to the latest 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 sidewinds.



SOLAS  
approved



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

**IGNITION** Twist-grip trigger

**TEMPERATURE OPERATING RANGE** -30c to 65c (-22F to 149F)

**TEMPERATURE STORAGE RANGE** -30c to +75c (-22F to 167F)

**WEIGHT** 4.3Kg (9.5lbs)

**OTHER INFORMATION** Throwing range >230m

**LINE BREAKING STRAIN** >2Kn

## LIGHT AND SMOKE SIGNAL

Art. no. 9161600

Combined light and smoke Lifebuoy marker far exceeds SOLAS/MED requirements.



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

**COLOUR OF SMOKE** Dense orange smoke

**DURATION OF BURN TIME** 15 minutes

**LIGHT INTENSITY AND DURATION** Minimum 2 Candela for 2 hours

**IGNITION** Pull-wire igniter

**TEMPERATURE OPERATING RANGE**

-1c to 30c (30.2F to 86F)

**TEMPERATURE STORAGE RANGE** -30c to +75c (-22F to 167F)

**WEIGHT** 4.7Kg (10.3lbs)

**OTHER INFORMATION** Tested to survive a 60m drop into water (SOLAS 30m) • Universal stainless steel mounting bracket • Safe to use on petrol or oil covered water • Use with a lifebuoy weighing 4Kg (9lbs) • Attach to a 9.5mm diameter, 4m long line attached to the lifebuoy

## SMOKE SIGNAL

Art. no. 9161700

15 minute orange smoke Man Overboard Lifebuoy marker. Identical to Light Smoke Signal - but without the lighting system.



SOLAS  
approved



## RED HANDFLARE

Art. no. 9162800



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



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

**COLOUR OF LIGHT** Red

**DURATION OF BURN TIME** 60 seconds minimum

**LIGHT INTENSITY** 15,000

Candela minimum

**IGNITION** Top pull-wire igniter

**TEMPERATURE OPERATING RANGE**

-30c to 65c (-22F to 149F)

**TEMPERATURE STORAGE RANGE** -30c to +75c (-22F to 167F)

**WEIGHT** 160g (5.6oz)

**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



## RED PARACHUTE SIGNAL ROCKET

Art. no. 9123100



Designed to withstand exceptional environmental exposure and to perform reliably even after immersion in water. Features improved grip for easy handling and conforms to SOLAS 74/88 as amended.



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

**COLOUR OF LIGHT** Red

**DURATION OF BURN TIME** 40 seconds minimum

**LIGHT INTENSITY** 30,000 Candela minimum

**HEIGHT** 300m (985ft)

**IGNITION** Base pull-wire igniter

**TEMPERATURE OPERATING RANGE** -30c to 65c (-22F to 149F)

**TEMPERATURE STORAGE RANGE** -30c to +75c (-22F to 167F)

**WEIGHT** 270g (9.45oz)

**OTHER INFORMATION** Altitude is minimum 300m (985ft) • Designed to withstand exceptional environmental exposure • Performs reliably even after immersion in water • Compact design for easy liferaft stowage



## BRIDGE SIGNAL SET

Art. no. 9127000



Designed to meet the SOLAS/MED/USCG regulation, which requires 12 Para Red rockets on a ship's bridge, this kit is conveniently stowed in our large waterproof plastic container.



# SMOKE SIGNAL ORANGE

Art. no. 9162000



Compact, flat-top day-time orange smoke distress signal providing effective position marking or indication of wind direction during rescue operations.

**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 BURN TIME** 3 minutes minimum

**IGNITION** Pull-wire igniter with a 2 second safety delay

**TEMPERATURE OPERATING**

**RANGE** -1c to 30c (30.2F to 86F)

**TEMPERATURE STORAGE RANGE**

-30c to +75c (-22F to 167F)

**WEIGHT** 370g (13oz)

**OTHER INFORMATION** Can be

used for indication of wind

direction during a rescue • Safe to use on petrol or oil covered water •

Designed for stowage in liferaft



# DAY&NIGHT SIGNAL

Art. no. 9131500

Compact, handheld distress signal consisting of a red flare at one end and an orange smoke at the other. Housed in a rugged, corrosion-resistant case.

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

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

**DURATION OF BURN TIME**

Orange smoke for 18 seconds minimum and

red flare for 20 seconds minimum

**IGNITION** Pull-ring activation

**TEMPERATURE OPERATING RANGE**

-30c to 65c (-22F to 149F)

**TEMPERATURE STORAGE RANGE**

-30c to +75c (-22F to 167F)

**WEIGHT** 228g

**OTHER INFORMATION** Flare end is ribbed to aid

identification at night • Each end is fired independently



# PERSONAL SIGNAL LAUNCHER

Art. no. 91 64200

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 BURN TIME**

5.5 seconds minimum

**LIGHT INTENSITY**

10,000 Candela minimum

**HEIGHT** >46m (150ft)

**IGNITION** Penjector system

**TEMPERATURE OPERATING RANGE** -30c to 65c (-22F to 149F)

**TEMPERATURE STORAGE RANGE** -30c to +75c (-22F to 167F)

**WEIGHT** 150g (5.25oz)

**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 SIGNAL LAUNCHER

Art. no. 91 64000

A smaller version of the Personal Distress Signals with the penjector incorporated into the case which contains 3 red cartridges cleverly connected to an elastic lanyard to avoid them being lost when the base cap is unscrewed.

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

**COLOUR OF LIGHT** Red flare

**DURATION OF BURN TIME**

5.5 seconds minimum

**LIGHT INTENSITY** 10,000 Candela minimum

**HEIGHT** >46m (150ft)

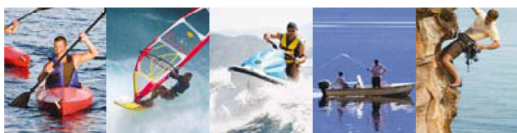
**IGNITION** Penjector system

**TEMPERATURE OPERATING RANGE** -30c to 65c (-22F to 149F)

**TEMPERATURE STORAGE RANGE** -30c to +75c (-22F to 167F)

**WEIGHT** 74g (2.6oz)

**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



## WHITE HANDFLARE

Art. no. 91 62500

Designed for use as a collision warning signal or for illuminating small areas where an intense white light is required.

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

**COLOUR OF LIGHT** White

**DURATION OF BURN TIME** 60 seconds minimum

**LIGHT INTENSITY** 2,500 Candela minimum

**IGNITION** Top pull-wire igniter

**TEMPERATURE OPERATING RANGE**

-30c to 65c (-22F to 149F)

**TEMPERATURE STORAGE RANGE**

-30c to +75c (-22F to 167F)

**WEIGHT** 160g (5.6oz)



### 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



## ORANGE HANDSMOKE

Art. no. 9132600

Particularly suitable for yachts, dinghies and sailboards, this waterproof, hand-held signal produces a dense orange smoke for daylight distress signalling and wind direction indication.

**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 BURN TIME** 60 seconds minimum

**IGNITION** Top pull-wire igniter

**TEMPERATURE OPERATING RANGE** -30c to 65c (-22F to 149F)

**TEMPERATURE STORAGE RANGE** -30c to +75c (-22F to 167F)

**WEIGHT** 200g (7oz)

**OTHER INFORMATION** Can be used for indication of wind direction during a rescue  
• Safe to use on petrol or oil covered water  
• Meets USCG requirements



## LEISURE PARA ROCKET RED

Art. no. 9123800

This red parachute rocket is especially designed for leisure craft. Of minimal size, weight and recoil it features a secure non-slip grip for safe handling.

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

**COLOUR OF LIGHT** Red

**DURATION OF BURN TIME** 30 seconds minimum

**LIGHT INTENSITY** 20,000 Candela minimum

**HEIGHT** 300m (985ft)

**IGNITION** Base pull-wire igniter

**TEMPERATURE OPERATING RANGE** -30c to 65c  
(-22F to 149F)

**TEMPERATURE STORAGE RANGE** -30c to +75c  
(-22F to 167F)

**WEIGHT** 230g (8.05oz)

**OTHER INFORMATION** Altitude is minimum 300m (985ft)

- Secure grip for safe handling and operation.
- Designed for stowage in liferaft



## SKY-LITE 2 STAR ROCKET

Art. no. 9122800

Compact leisure rocket with 2 free-falling red stars.

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

**COLOUR OF LIGHT** Red

**DURATION OF BURN TIME** 5 seconds minimum

**LIGHT INTENSITY** 10,000 Candela minimum

**HEIGHT** 60m (197ft)

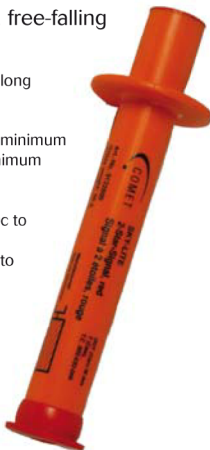
**IGNITION** base pull-wire igniter

**TEMPERATURE OPERATING RANGE** -30c to 65c  
(-22F to 149F)

**TEMPERATURE STORAGE RANGE** -30c to +75c  
(-22F to 167F)

**WEIGHT** 56g (1.96oz)

**OTHER INFORMATION** Ideal for small boats and wind surfers





# DISTRESS PACKS

## Inshore Pack Art No. 9151100

For use when less than 3 miles from land to raise alarm and pinpoint your position by night or day. 4 Red Handflares in a water resistant polybottle.

## Offshore Pack Art No. 9151300

For vessels sailing more than 7 miles from land. Contains 2 Red Handflares and 4 Red Parachute Signal Rockets in a water resistant polybottle.

### Overview of packs available and typical applications

BOATING/ WATER SPORT TYPE	Distance from shore					
	<div>Dinghy/Canoe/Kayak/Sailboard/PWC</div> <div>Inshore/Lake</div> <div>Coastal – Sail/Motor</div> <div>Offshore – Sail/Motor</div> <div>Sport Diving</div> <div>Water Skiing</div>					
	<3nm	N/A	<3nm	<3nm	<7nm	>7nm
	Collision Warning White Handflare				R	R
	Inshore Pack		R	R	R	
	Offshore Pack					R
Day & Night Signal	O	R	O	O	O	O
Personal/Compact Signals <small>Miniflare Mk8</small>	R	R	R	R	R	R

KEY: R - Recommended    O - Optional

# Do's and Don'ts

## Do's

- Make sure your signals are always in date
- Use in accordance with instructions
- Always store in a container
- Ensure your crew know where the signals are stored
- As part of your safety briefing ensure your crew are familiar with how to operate your distress signals
- Only use in an Emergency situation
- Point signals outboard/downwind and away from your body as per instructions
- Use red flares by day or night
- Use orange smoke in daylight
- Seek medical advice in the event of injury
- Use certified Hazard Class 1 couriers
- Remember these are Class 1 pyrotechnic products when using, storing or transporting them

## 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
- If found do not touch and notify the Coast Guard, Fire Marshall or Police

**TRANSPORT** All the pyrotechnic products are supplied from Chemring Marine Ltd to be transported under the worldwide regulations for Class 1 Hazardous products by air, road, rail or sea.

**DISPOSAL** Pyrotechnics must be treated as hazardous waste and must be disposed of responsibly in accordance with regulations and local rules. For help and advice see our website at [www.chemringmarine.com](http://www.chemringmarine.com)

# Comet

## MARINE DISTRESS SIGNALS

Distributors throughout the world...



Contact us or your local distributor for any further information.



US Coastguard Approved



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