



TOPLICHT Art-Nr. 3004-001

BROCHURE

NEW

Odeo Flare™ LED Flare (eVDS)

Daniamant design and manufacture all of our products in line with the relevant worldwide approvals, technical specifications, current legislation and International directives.

Our mission is to achieve World class performance through partnerships with our suppliers, customers and employees, providing products and services that enhance the safety and security of our customers.

Daniamant products cover ten key areas:

- Lifejacket Lights
- Liferaft Lights
- Lifebuoy Lights
- Intrinsically Safe Lights
 - Special Lights
 - LED Flares
- Bridge Navigational Watch Alarm System (BNWAS)
 - Salinometers
- Electronic Inclinator
- Agency for a range of world-renowned safety product brands (supplied to the Danish market)

Further Information

For further information on our products, please see our website:
www.daniamant.com

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Daniamant
 Be safe at sea



Introduction

Odeo Flare™; Odeo stands for Omni Directional Electrical Optical signal and is an innovative replacement and enhancement to traditional hand flares.

Function

Traditional flares will illuminate for around 30 seconds before extinguishing; the Odeo Flare™ illuminates for around 6 hours at full illumination. Because no pyrotechnics are used, the Odeo Flare™ is totally safe when switched off, and because it uses battery power (high power Lithium or Alkaline cells), it can even be safely posted or carried in baggage on flights.

Major Benefits

- No heat, no flames, no risk
- No explosive compounds for shipping or disposal
- Increased Safety
- Longer operating life
- Supplied with Wrist Strap
- Search and Rescue aircraft safe
- Tested to 50 meters for 1 hour

Typical Use

Whilst originally designed for marine use, its lightweight, safe performance means that it is incredibly useful for any outdoor activity. Mountaineering, skiing, expeditions etc. - any activity can benefit from the added safety and security of carrying a distress flare - without the unwanted dangers.

Power Supply

The Odeo Flare uses either 3 x L91 Lithium batteries or 3 x Alkaline batteries. These batteries have the required shelf life and power capacity and will operate over an extended temperature range.

Regulations

The Odeo Flare™ is designed with consideration to SOLAS requirements, making it a genuine alternative to the pyrotechnic red hand held flare. The US Coast Guard is now leading the world in developing standards for electronic Visual Distress Signals (eVDS) as a replacement for the hand held pyrotechnic flare.

The Odeo Flare™ also outputs an SOS signal during its flash pattern as described in Annex 4 to COLREGS, and is thus an internationally recognised distress signal.



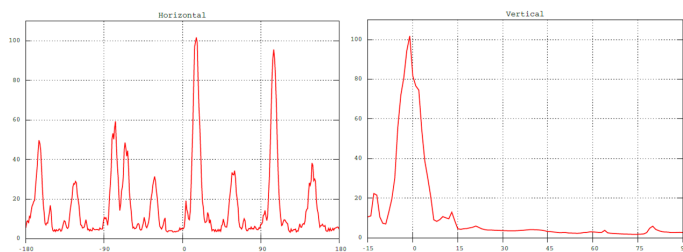
Frequently Asked Questions

What is the visible range?

In the UK, a moonlit trial undertaken by Yachting Monthly resulted in detection at well in excess of 3 nm. More recently the Finnish coastguard carried out tests where the Odeo Flare™ was visible from their helicopter at 10 nm and easily visible from 6 nm. So, we say the visible range is a minimum of 3 nautical miles, but much more in good conditions.

What is the light output?

At full voltage the Odeo Flare™ has a peak light output of 100 cd.



How long does it last?

At ambient temperatures the supplied AA lithium batteries will last for 6 hours at full power. The Odeo Flare™ is supplied with Lithium Iron Disulphide batteries, which are readily available in supermarkets. These batteries have the required shelf life and power capacity and will operate over the temperature range -40°C to +60°C. It's always a good idea to carry a spare set - this will give you an extra 4-6 hours of continuous use. In an emergency any AA batteries can be used but operating life will be degraded accordingly (the alternative AA Alkaline batteries will last for 4 hours at full power).

Is the unit waterproof?

It certainly is, we have tested it officially to IP68 which means it is totally protected against the ingress of solid objects and has been submerged in water up to 50 metres for 30 minutes. In addition to this we have tested the Odeo Flare in our pressure test chamber at 100 meters for one hour, which makes it ideal for use when diving.

If it gets damaged, how do I dispose of it?

There is no disposal hazard with the Odeo Flare™. It can be disposed of in landfill as normal household waste as long as the batteries are separated and recycled. Alternatively you can return your old Odeo Flare to Daniamant in Portsmouth and under our WEEE scheme we will dispose of it for you.

If I buy one as a gift, can it be posted?

Yes, there is no problem posting to either UK or overseas addresses. In fact, we use post and air freight as the only methods of despatching the product. The three cells in the product are not electrically connected and are covered by shipping exemptions for lithium batteries. It can also be purchased without batteries.

Can I take it on an aircraft?

Yes, it is safe to carry, although the airline will probably want you to put it in your hold baggage.

Will others know it as a distress flare?

Yes. Apart from the flame-like flicker, it also makes the SOS signal as described in Annex 4 to COLREGS, and is thus an internationally recognised distress signal. It has similar visual characteristics to a conventional flare, and a piercing light - but, of course, it lasts considerably longer.

If I drop it overboard will it float?

Yes. The design team are yachtsmen and this was one of the first considerations, and, of course, it is sealed, so it will not be damaged.

Can I leave it on board over winter?

Yes, it is ok to store it on board, in a garage or shed for example, provided the temperature range is between -40° to +60°C. The Odeo Flare™ was designed to be stored on board a boat and is built from materials that will not corrode.

Is the Odeo Flare accepted under SOLAS regulations as an alternative to the hand held flare?

Not yet. However, the Odeo Flare™ makes a recognised distress signal as described in Annex 4 to the International Rules for the Prevention of Collisions At Sea (COLREGS). Until SOLAS rules are change, coded and commercial vessels must still carry pyrotechnic flares. Daniamant are actively involved in the current USCG trials on drafting a specification for LED flares.

Does it have an expiry date?

The Odeo Flare™ is supplied with batteries that have a long shelf life. If the batteries are regularly changed with the correct replacements and the flare is carefully stored it will have a 10 year lifetime.

What does Odeo mean?

Omni-directional-electro-optical.



TECHNICAL DATA SHEET

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MODEL	MK 3 Lithium	MK3 Alkaline
Part number - Tube pack	30-001A	30-003A
Part number - Bag and Blister pack	30-002A	30-004A
Part number - Tube pack - No Batteries	30-005A	
Body colour	Orange	
Body material	Glass re-inforced Nylon	
Light output	At full voltage the Odeo Flare™ has a peak light output of 100cd	
LED - Colour	Red	
Coverage	Full upper hemisphere plus 20 degrees below	
Detection Range	Minimum 3 nautical miles; up to 6 nautical miles in ideal conditions	
Batteries	3 x AA L91 Lithium iron disulphide cells	3 x AA Alkaline cells
Batteries - Daniamant Part Numbers	49-115	30-119
Battery - Marine use	Recommend battery change every two years	
Sealing	Water tight to 1 metre for 30 minutes	
Operating temperature	-40 C to + 60 C	-18 C to + 55 C
Operating life	6 hours at full illumination	4 hours at full illumination
Drop test	1.5 metres	
Weight - including batteries	33 grams	
Floats	Yes	
Protective bag supplied separately	30-135	

Transport Specification

Lithium batteries: Exempt from transport packing, marking and labelling regulations under surface ADR & IMDG Special Provision 188, IATA Packing Instruction 970 Section II

UN Number: 3091
UN Proper: Lithium metal batteries
Shipping name: Contained in equipment
Packing Group: II
Lithium content: 0.99 grams per cell
Alkaline batteries: Odeo Flares fitted with Alkaline batteries are not subject to any Transport Regulations.

Packing Specification

The Odeo Flare is supplied as standard in a clear plastic tube. Upon request, the can also be supplied with a protective bag and in a Blister pack.

To minimize shipping costs, all Odeo Flares are packed and supplied in boxes of 10 off and 25 off.

The dimensions are:
 Box of 10 off : 31 x 31 x 12 cm
 Box of 25 off : 31 x 31 x 31 cm

Approximate packed weights are:
 With Batteries:
 Box of 10 off : 3.5 kg
 Box of 25 off : 7.5 kg

Without Batteries:
 Box of 10 off : 3.0 kg
 Box of 25 off : 6.5 kg

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Odeo Flare™ Outline

