

**MLSC Ref:**  
MLSSAC/0477/01/02

**MOD Form 2237**  
(Revised: Feb 10)



**Internal MoD Ref:**  
DOSG/009/05/07/09

**MILITARY LASER SYSTEM  
SAFETY ASSESSMENT CERTIFICATE**

**Equipment:**  
Laser Rescue Flare

**Manufacturer:** Greatland  
**Use/Type:** Flare

**Expiry Date:**  
01 Jun 19

***Classification & Restrictions***

The Military Laser Safety Team (MLST) has, based on the best available information at this time, assessed the above equipment in accordance with JSP 390 and issues this certificate to summarize key hazard information. This certificate confirms that the equipment can be used safely in accordance with the equipment's user handbook and local standard operating procedures.

The MLST has classified this Laser Class 3R. Class 3R lasers can present a hazard to the human eye with direct unaided viewing. There could also be a hazard if the laser is viewed directly through optical aids (such as binoculars).

This equipment can be hazardous to the eye for a distance, known as the Ocular Hazard Distance (OHD), of 2.6 m. In addition there is an Extended hazard distance (known as EOHD) of 18 m for aided viewing.

The EOHD is based on 10 x 50 binoculars; the technical data sheet provides further hazard distance for different magnification binoculars.

Should it not be possible to easily fit the system's hazard template on to a range or training area further advice and documentation must be sought from the MLST. Similarly, if a trial or demonstration is to be conducted involving this equipment further documentation must be sought from the MLST.

This certificate does not absolve all involved from taking the proper precautions for their own safety and that of others in accordance with current Health and Safety legislation.

This certificate will immediately become invalid if, without MLST permission, the parameters are modified, adapted or changed.

**Signed:**

**Name:**

Matt Flower

**Rank/Grade:**

C1

**Appointment:**

DES WpnsDOSG-WS-IE-MLST

**Date:**

02 Jun 2016

**Technical Data**

Wavelength	532	nm
Power	< 5	mW

Beam Shape	Oval	
Beam Divergence	31 x 1.1	mrad
Beam Diameter	1.1	mm

Classification	3R	
Nominal Ocular Hazard Distance (NOHD)	2.6	m
Ocular Hazard Distance (OHD)	2.6	m
Extended Ocular Hazard Distance (EOHD) (10 x 80)	29	m

Extended Nominal Ocular Hazard Distance (ENOHD)	18	m
Extended Ocular Hazard Distance (EOHD) (10 x 50)	18	m
Extended Ocular Hazard Distance (EOHD) (10 x 120)	44	m

**Comments**

- ENOHD calculated for 80% transmittance through 10x50 binoculars.
- OHD and EOHD take into account atmospheric attenuation for a standard clear sky and, if pulsed, atmospheric scintillation for medium turbulence.

**Point of Contact:**

**Address:**

MLST  
 Fir 3B, #4304  
 MoD Abbey Wood South  
 Bristol  
 BS34 8JH

**Tel No:** 030 679 35515/35324

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**References**

1. Doc Ref Dated By Greatland Laser Rescue Flare Laser Hazard Analysis 8240.2-Ser G72 June 06 S Zimmerman, Naval Surface Warfare Center