

## Appendix 2 - LASER SIGNS AND LABELS

### ***Designated Laser areas***

The points of access to areas in which Class 3B or Class 4 laser products are used must be marked with warning signs complying with BS 5378 and the Health & Safety (Safety Signs and Signals) Regulations 1996. Within the University of Dundee, the following sign must be used (this sign will be supplied by Safety Services as part of the laser equipment registration process – please do not obtain it from any other source):



<b>Person responsible</b>	<b>Unit Laser Safety Officer</b>
_____	_____
<b>Internal Tel:</b> _____	<b>Internal Tel:</b> _____
<b>Home Tel:</b> _____	<b>Home Tel:</b> _____

### ***Laser Labels***

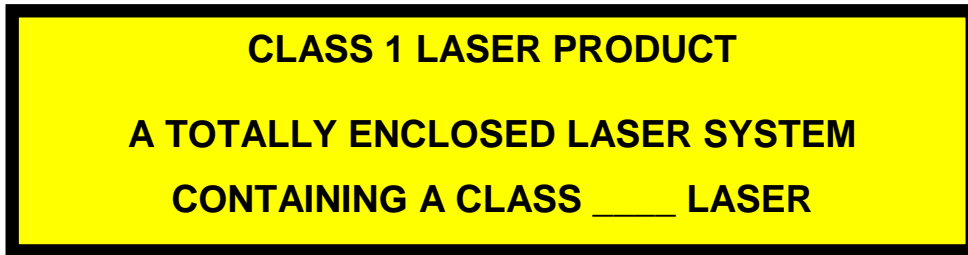
Laser labels are required for all laser products except for low power Class 1 devices. They are designed to give a warning of laser radiation, the class of laser, basic precautions and the laser's characteristics.

The laser warning uses the same triangular symbol as the door sign in an appropriate size for the laser to be labelled and should be clearly visible with any supplementary information in black text on a yellow background (examples below).

Where the size of the laser product does not permit the affixing of a reasonably sized label, a sign should be displayed in close proximity to the laser with all appropriate information on.

### **Class 1 (by engineering design)**

For these types of laser product we specify that they are totally enclosed systems and give details of the laser enclosed. Describe them on the outside as a Class 1 laser product using the following label:



In addition each access panel or protective housing shall bear the words:-



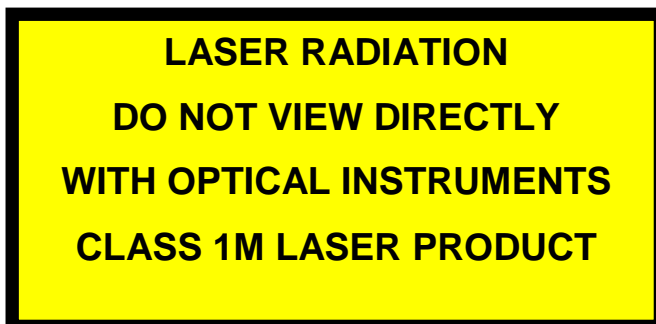
with the appropriate class inserted and then followed by the hazard warning associated with that class of laser (see warning statements in following labels).

---

### **Class 1M**

No hazard warning label.

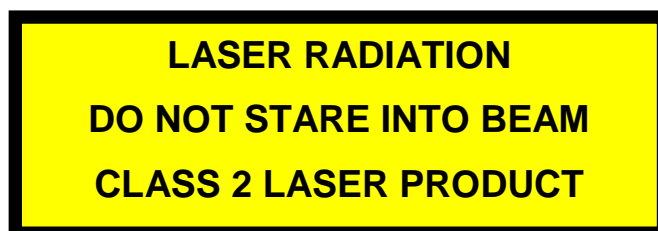
Explanatory label bearing the words:



### **Class 2**

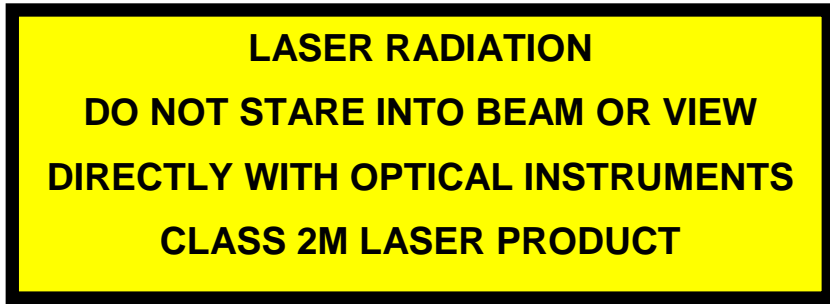
Label with hazard warning symbol.

Explanatory label bearing the words:-



### Class 2M

Label with hazard warning symbol.  
Explanatory label bearing the words:-

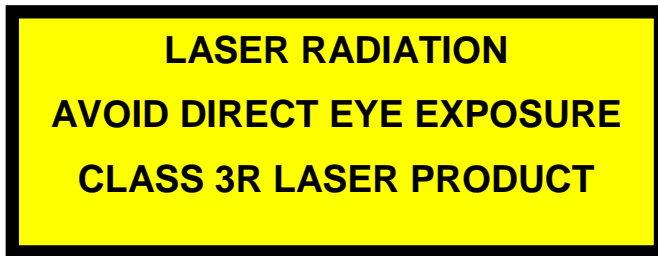


---

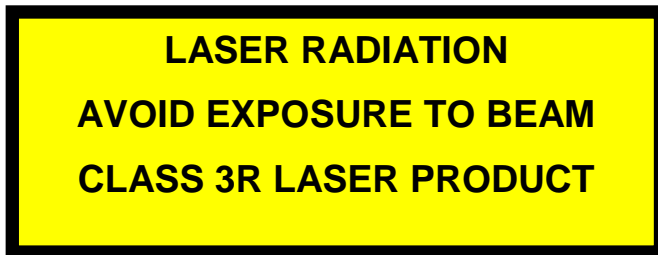
### Class 3R

Label with hazard warning symbol.  
Explanatory label bearing the words:-

For  $\lambda$  400nm-1400nm ONLY.



For other  $\lambda$



---

### Class 3B

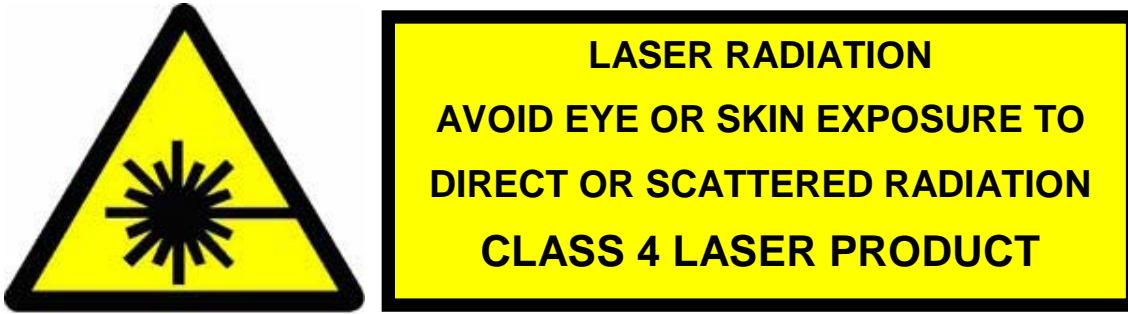
Label with hazard warning symbol.  
Explanatory label bearing the words:-



## Class 4

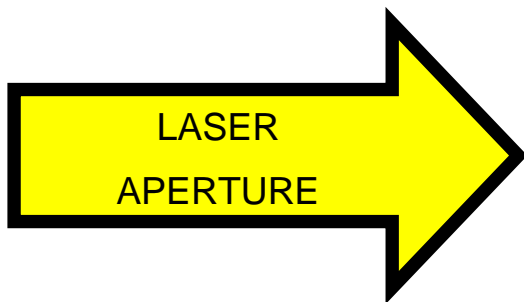
Label with hazard warning symbol.

Explanatory label bearing the words:-



## Aperture Labels for Class 3R, Class 3B & Class 4 lasers

Each Class 3R, Class 3B and Class 4 laser product shall display a label close to where the beam is emitted bearing the words 'LASER APERTURE' or 'AVOID EXPOSURE - LASER RADIATION IS EMITTED FROM THIS APERTURE'. This label can take the form of an arrow if this displays more meaning:-



## Radiation Output and Standards Information

All laser products, except for low power Class 1 devices, shall be described on an explanatory label with details of :-

- maximum output
- emitted wavelength
- whether laser beam is visible, invisible or both
- pulse duration (if appropriate)
- name and publication date of classification standard

<b>LASER PRODUCT</b>	
<b>CLASS ____</b>	
<b>VISIBLE / INVISIBLE / BOTH LASER RADIATION</b>	
Type _____	Medium _____
PD _____	$\lambda$ _____
Maximum output _____	