

SAFETY OF LASER PRODUCTS –

Part 1: Equipment classification and requirements

INTERPRETATION SHEET 1

This interpretation sheet has been prepared by committee 76: Optical radiation safety and laser equipment.

The text of this interpretation sheet is based on the following documents:

ISH	Report on voting
76/415/ISH	76/418/RVD

Full information on the voting for the approval of this interpretation sheet can be found in the report on voting indicated in the above table.

Subclauses 9.2 and 9.3

These subclauses are clarified by the following:

Introduction

For emissions in the wavelength range of 400 nm to 1 400 nm, the need to perform measurements for Condition 2 (eye loupe viewing) can be greatly reduced by recognising that Condition 3 (unaided viewing) in many cases will be the most restrictive criterion.

Interpretation

The following table outlines the process in this interpretation of IEC 60825-1, subclauses 9.2 and 9.3.

IF	THEN
Angular Subtense > 1,5 mrad @ 100 mm from the reference point	Condition 2 need not be considered
Angular Subtense ≤ 1,5 mrad @ 100 mm; or the angular subtense is not determined	Use simplified Condition 2, $C_6 = 1$
<i>Optional for intermediate sources:</i> Angular Subtense ≤ 1,5 mrad @ 100 mm AND > 1,5 mrad using Figure 5	CAN use Figure 5 (with C_6 determined using Figure 5) if simplified Condition 2 is too restrictive for the application