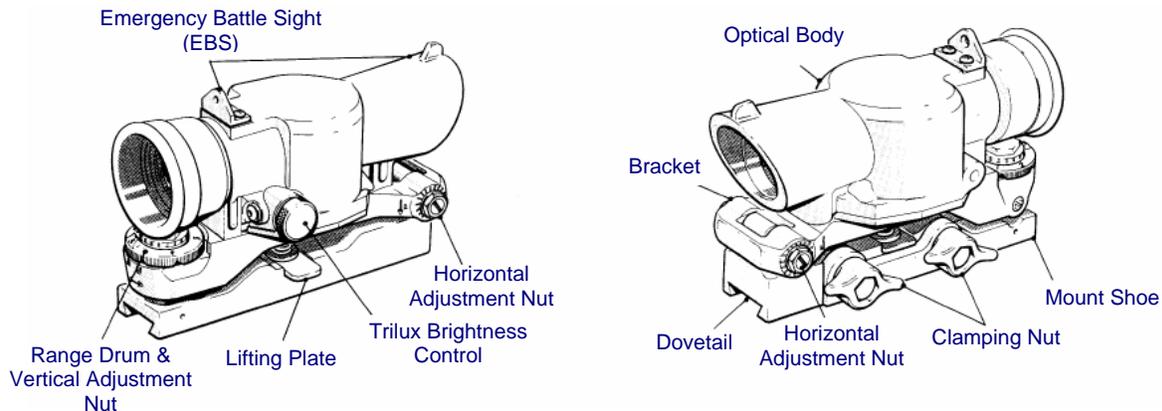


# SIGHT UNIT SMALL ARMS TRILUX (SUSAT)



The SUSAT consists of an optical body fixed to a mounting bracket. On top of the optical body is the **Emergency Battle Sight (EBS)**.

## The Optical Body

The body is constructed from a lightweight alloy and contains the optical system, with a **magnification of times four (x4)** and a **narrow field of view**. The following are the parts of the body:

**The Eyepiece.** This is made of rubber and is of a standard length to ensure that the eye is correctly positioned. It is designed to keep water off the lens and is glued permanently to the body.

**The Pointer.** This is located within the optics and is seen by the firer in his field of view. Visual in daylight, it appears as a dark pillar with a clear centre. At night the tip of the pointer can be illuminated by the TRILUX lamp. The light is reflected up into the pointer and is seen as a reddish gleam.

**The Brightness (TRILUX) Control Knob.** This is located on the right rear of the body. It is knurled and can be rotated clockwise to vary the light reaching the pointer from zero to full brightness.

**The EBS.** This consists of a blade foresight and aperture backsight; it is matched to the optical centre of the SUSAT lenses during manufacture and therefore cannot be zeroed. It is used in an emergency should the SUSAT become damaged, until such time as an Iron Sight can be fitted.

**The Objective Lens Hood.** The body is shaped at the front to overhang the objective lens in the form of a hood, so reducing reflection from the lens and keeping it dry.

## The Bracket

The bracket consists of:

**A Mounting Shoe.** This is dovetailed to match the sight base on the weapon. The shoe is secured to the base by two clamping nuts. A locating plunger protrudes through the shoe and engages one of the three holes in the sight base. This ensures the sight is correctly positioned and provides adjustable eye relief. When correctly adjusted to the individual, the locking hole selected will be marked. A lifting plate is attached to the plunger; it sticks out on the right side of the bracket.

**The Sight Mount.** The mount links the mounting shoe and the optical body. It is fitted at the front with a horizontal adjustment screw and at the rear with a vertical adjustment nut. Immediately below the eye piece is a **range drum which is marked from 3-8 in increments of 100 metres.**

### Safety: The Trilux Source

The TRILUX lamp used in the SUSAT contains Tritium gas. In the event of breakage the following precautions are to be taken:

1. The escaping gas is not to be inhaled.
2. Cigarettes are to be extinguished immediately.
3. Broken parts are not to be handled with bare hands.
4. If a breakage occurs indoors, doors and windows are to be opened to allow the gas to clear and any gas or flame heating system is to be turned off.
5. All breakages are to be reported to the Medical Officer and the unit armourer as soon as possible.

Characteristic	Data
Title	Sight Unit Small Arms Trilux (SUSAT) L12A1
NATO Stock Number (NSN)	1240-99-967-0947
Type	Optical with illuminated pointer
Magnification	x4
Range Settings	300 to 800 meters in 100 m intervals
Field of view	10 Degrees (177 mils)