

ike Laser Performance and Safety

1 Intro

The Laser Distance Meter (LDM) in an ike unit emits pulses of invisible light from the front of the ike unit and measures the time it takes for the reflection to return.

In favorable atmospheric conditions the laser can read distances up to 1000m (depending on ike model). Conditions such as smog and rain will affect laser performance.

2 Modes of operation

2.1 Default Settings

The ike unit will be set to continuous mode, default ON at the factory. This can easily be changed to single shot mode by the user.

3 Laser Safety

The ike laser has been made under guidelines from AS/NZ2211.1:2004 (IEC60825-1:2001)

3.1 Nominal Ocular Hazard Distance (NOHD)

The Nominal Ocular Hazard Distance (NOHD) is the safest distance to the laser source that beam viewing can occur.

Closer than the NOHD distance – eye damage may occur, past the NOHD distance, eye damage is unlikely.

NOHD is affected by optical aids such as binoculars.

3.2 Ike LDM eye safe measurement

The ike, for un-aided eye viewing, has negative NOHDs, which means the beam is eye safe for all distances.

When using 8x50 binoculars the NOHD is increased to 31.5m, so if you stare into the beam for more than 100 seconds eye damage may occur.

While measurements indicate that the ike LDM is eye safe. Invisible radiation is produced Avoid staring directly into the beam.

