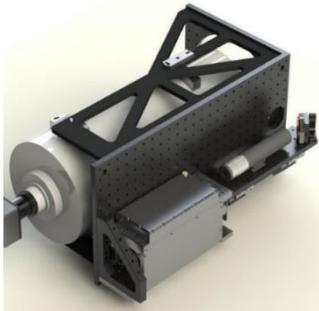


MODULAR GATED LASER VIEWING SYSTEM FOR GROUND APPLICATIONS

DEFENCE VISION SYSTEMS (DVS) LTD

Enhance your surveillance systems capabilities by fitting the DVS Gated Laser System

- See better/clearer in adverse weather conditions
- Improved border and coastal surveillance
- Enhanced night vision
- IP66 Housed for standalone operation
- Modular for easy integration
- User friendly operation



Modular Gated Laser Viewer



Housed Gated Laser Viewer

Typical Ranges in fog conditions

Visible limited to 20m	Visible limited to 200m
Gated System sees 1Km	Gated System sees 10Km

These will be similar for conditions of rain and snow but due to particle size, may vary in smoke or dust conditions.

Active Laser Viewing for ground surveillance applications

The DVS gated laser viewing system provides greatly improved vision in adverse weather conditions. Research has shown that in conditions of mist, fog, rain and snow a pulsed laser system is still able to provide images of the target. The DVS system works at the blue end of the spectrum, using a pulsed laser operating at a wavelength selected for maximum moisture penetration. The system contains a fast-gated intensified camera, with the intensifier matched to the wavelength of the pulsed laser thus ensuring optimum vision in adverse viewing conditions. The system uses the laser as the master trigger and after a user pre-ordained delay the camera is activated. The delayed gate period can be moved up and down the viewing range to find a target of interest.

The laser beam is passed through an expander system that ensures the beam fills the field of view of the camera system. The operation of the laser automatically, via a delay circuit, triggers the camera and after a user, pre-ordained, delay, the camera shutter opens. This delay ensures that only light reflected from the target is seen by the camera. The camera is open for a few nanoseconds, known as the gate period, thus ensuring high quality images of the target. Due to the camera only seeing the light reflected from the target, atmospheric interference, due to the weather conditions, between the camera and the target is ignored.