

# OBSIDIAN™

Limited Range IR Light



## The IR light that doesn't reveal your location



Telva's Obsidian is a military grade IR light for covert operations. Unlike conventional IR lights, the Obsidian beam has a controlled and limited lighting range. It emits sufficient light to safely operate vehicles under night-time conditions, but is undetectable from a distance.

### Challenge:

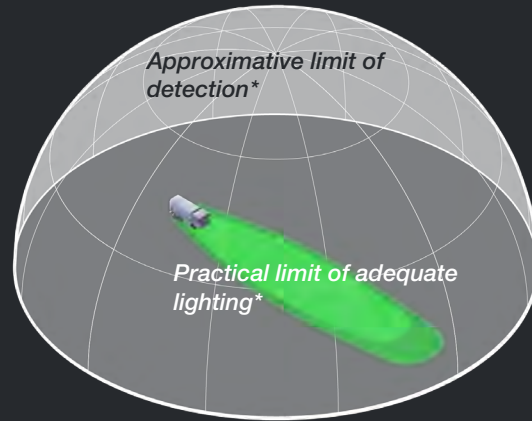
Conventional IR lights, when used to light up the night, are visible to everyone equipped with NVG's, for miles around.

### Solution:

The Obsidian IR illuminator offers sufficient light to operate vehicles etc. in the dark, but cannot be detected from a distance.

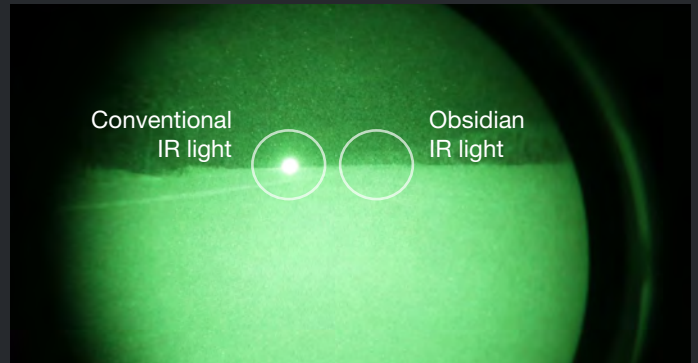
## Limited Range IR Light

Schematic of the practical limit of adequate close-range lighting (green) and the approximative limit of detection of the Obsidian light (dome).



### Close range:

In the dark of a winter night, Obsidian sheds sufficient light to operate a snowmobile on a frozen lake.



### From a distance:

On the same frozen lake, two lights are ON and aimed at the observer. Obsidian is undetectable.

### Technical specifications

Weight (light unit)	1,380 g
Weight (remote ctrl unit)	480 g
Power supply	5...36 VDC
Adjustable beam output	Lo, Med, Hi
Adjustable beam width	Spot, Normal, Wide
Wavelength	NIR
Ingress protection rating	IP69
Temperature range	-32...+43 °C
MIL-STD compliance	810H and 461G
Mounting bracket holes	AMPS + MIL-STD-1013
Cable specifications	PWR: 4 m, CTRL: 4 m
Options	Non-standard cable lengths
NATO Stock Number (NSN)	5855-58-002-0791

