

# GEOLUX NVS-50 PORTABLE THERMAL CAMERA

COST EFFECTIVE • LIGHTWEIGHT • LONG RANGE • SD CARD STORAGE

## PRODUCT FEATURES

- Detects humans up to 1.7 km ahead, and vehicles up to 3.8 km ahead (detection distance depends on the lens type)
- Powered by Geolux X12 DSP engine
- Compact, low-power design
- Weights only 650 g
- OLED high-quality viewfinder
- IP66 enclosure suitable for all harsh outdoor conditions
- SD memory card allows capturing video and still snapshots
- Analog composite video output
- Support manual gain control and automatic gain control (AGC) modes of operation
- Support for tripod mounting
- Li-Ion battery (2 batteries provided)
- Optional USB adapter connects the camera to the computer

## INTRODUCTION

Geolux NVS-50 digital thermal camera is a lightweight portable thermal camera with high-quality OLED viewfinder. NVS-50 uses a Focal Plane Array (FPA) micro bolometer sensor giving excellent, high-fidelity thermal images. High refresh rate of 30 frames per seconds gives smooth and realistic thermal image.

The NVS-50 will let you see objects in complete darkness, through dust, smoke and light fog. The NVS-50 camera core thermal sensitivity reaches 50mK, resulting in clear cut, crisp video. Geolux NVS-50 can detect an object with temperature difference of only 0.05 degrees in temperature variance, which greatly improves target detection distance and visual contrast.

NVS-50 is irreplaceable accessory for police and military units, security guards, rescue patrols, border control guards, campers, hikers and hunters.

NVS-50 comes complete with a portable hard-carry case for quick and easy deployment. It is conformant to MIL-STD-180 specification for harsh environment use.

## PRODUCT SPECIFICATION

### THERMAL SENSOR

Detector Type	Focal Plane Array (FPA) uncooled micro bolometer
FOV / Mini foc. dist.	28° x 21° / 50 cm
Resolution	160 x 120
Spatial Resolution	1.08 mrad
Frame Rate	30 fps
Spectral Range	8 ~ 14 $\mu$ m
NETD	50 mK @ 30°C
Digital Zoom	4 x

### INTERFACE

Startup Time	< 20 sec
Viewfinder	OLED
Memory Card	SD card, 16 GB
Video Output	NTSC 60 Hz / PAL 50 Hz composite

### MECHANICAL

Weight	650 g
Enclosure	IP66
Size (L x W x H)	188 mm x 94 mm x 80 mm
Operating Temp.	-10°C to +50°C
Storage Temp.	-20 °C to +70°C
Shock	25 G
Vibration	2.5 G

### AVAILABLE LENS TYPES

Product No.	Lens	Human detection range
NVS-50-9	9 mm	300 m
NVS-50-19	19 mm	550 m
NVS-50-38	38 mm	950 m
NVS-50-75	75 mm	1.750 m

