

# GEOLUX TVC-50 COMPACT THERMAL CAMERA

EASILY INSTALLED • COMPACT LIGHTWEIGHT DESIGN • 30 FPS

## PRODUCT FEATURES

- Detects humans up to 450m ahead, and vehicles up to 1 km ahead
- Powered by Geolux X14 / X16 DSP engine
- Compact, low-power design
- 30 frames per second
- Weights only 380 g
- Easily mounted to vehicle
- Available with Geolux video analytics add on unit
- Wide field-of-view
- Automatic self-heating in low-temperature environments
- Automatic target tracking (up to 4 simultaneous targets)

## INTRODUCTION

Geolux TVC-50 digital thermal camera is a compact, ultra-lightweight thermal camera that can be easily mounted on any vehicle or UAV drone. TVC-50 uses a Focal Plane Array (FPA) micro bolometer sensor giving excellent, high-fidelity thermal images. Superb refresh rate of 30 frames per seconds gives smooth and realistic thermal image.

The TVC-50 will let you see objects in complete darkness, through dust, smoke and light fog. The TVC-50 camera core thermal sensitivity reaches 50mK, resulting in clear cut, crisp video. Geolux TVC-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.

TVC-50 is available in 384x288 resolution version and in 640x480 resolution version. The camera enclosure can withstand high shock, vibration, and protects the thermal imaging sensor against impacts of dust, gravel, sand and hail.

## PRODUCT SPECIFICATION

### THERMAL SENSOR

Detector Type	Focal Plane Array (FPA) uncooled micro bolometer
FOV / Mini foc. dist.	28° x 21° / 50 cm
Resolution	384 x 288 / 640 x 480
Frame Rate	30 fps
Spectral Range	8 ~ 14 um
NETD	50 mK @ 30°C

### INTERFACE

Video Output	NTSC 60 Hz / PAL 50 Hz composite
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### MECHANICAL

Weight	380 g
Enclosure	IP65 / IP69
Size (L x W x H)	80 mm x 57 mm x 57 mm
Shock	25 G
Vibration	2 G

### AVAILABLE CAMERA MODELS

Product No.	Resolution
TVC-50-X14	384 x 288
TVC-50-X16	640 x 480

