

NTG8000CZ Cooled Thermal Binocular



NTG8000CZ Hand-held cooled multifunctional Thermal Imager is a handheld observation equipment with various functions and uses. It consists of infrared thermal imaging, visible light camera, laser ranging, digital compass, Beidou GPS, etc. It is mainly used to search and observe the fixed or moving targets in day and night, and find the range to the target. At the same it can display the location of the targets. Cooled thermal sensor can see through the water steam in the sea, so it can be used in coast guard by sea police or Navy.



Video Link: https://youtu.be/1-5BLdzGhmY

Feature:

Cooled 640X512 IR sensor; Visible light CMOS camera;

GPS for location; LRF for distance;

Light weight and compact, comfort for handheld observation; Strong Defog ability to meet the marine application;

Application:

Border defense; Coast guard; Day and night surveillance;

Specification:

A.Thermal sensor

Ir sensor	Cooled
Spectrum range	3 μm~5 μm
Pitch	15um
Resolution	640X512
Starting time	≤ 6min@25 °C
Focus length:	18~275mm
F#	5.5
Focus	Motorized
FOV	29.8 °~ 2°
Frame rate	50Hz
NETD:	≤ 25mK

B. CMOS visible light camera

Resolution:	5MP
Color Image Pixel	2.7μm
Focus Length	4.3mm~ 129mm
Focus	Motorized
FOV	63.7x35.8-2.7x1.52
Image	Color / Black and White

C. Laser range finder

Wave length:	1,535 nm
Range	80m~12Km (visibility 12km, medium vehicle side as the target)
Accuracy:	± 1m
Repeated frequency	≥ 10HZ
Precision	≥ 98%

D. E-compass

Azimuth:	0 ° ~360°
Pitch angle:	-90° ~90 °
Roll scale	-180° ~180°
Repeat frequency	≥ 0.5Hz
Accuracy	0.1°

E. Beidou GPS

Frequency:	1559~1577MHz RF
Wave ratio:	≤ 1.5
Antenna gain	15~30dB
Accuracy	2.5m CEP

F. Storage

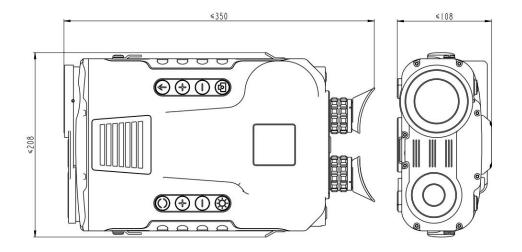
Storage:	64GB
Video Format:	AVI
Image format	BMP
Video time	≥4h
Picture	≥10000 original pictures

G. OLED and battery

Resolution of OLED:	1280×1024
Dioptor adjustment	<u>±</u> 4°
Battery	8 pieces of 18650
Working time	≥6H in normal temperature

H. Physical and interface

Weight:	3.4kgs
Weight of whole package	≤6Kg
Water proof	IP67
Working temperature	-40 °C ~+55 °C
Storage temperature	-55 °C ~+70 °C
Video	PAL
Data	USB
Communication	RS232
Shock proof	Yes
MTBF	≥8000H
MNBF	≥8000H
Dimension	≤ 108mm X 208mm X 350mm



Distance:

Detection Vehicle ≈2,3x2,3 m	10KM
Recognition Vehicle ≈2,3x2,3 m	7.2KM
Identification Vehicle ≈2,3x2,3 m	3.6KM
Detection human ≈1,70x0,8 m	8.6KM
Recognition human ≈1,70x0,8 m	3.4km
Identification human ≈1,70x0,8 m	2KM