

UNCOOLED FOCAL PLANE INFRARED DETECTOR

I . Introduction

- Adopt the fourth generation of uncooled focal plane infrared detector, NETD at 50mk, easy to find objects
- First develop continuous zooming infrared lens: 36~180mm continuous optical zooming, 5X zoom
- Special compensation circuits: No need of TEC, low power consumption
- DDE technology: easy to find hidden objects
- Special Image processing technology: flat image with no noise, 10 pseudo color and 2 formats: hot black/hot white
- Start quickly: 2s driving time
- Power Supply: AC220V/AC24V/DC12V (optional)
- **High aluminum alloy shell: with nitrogen inside; can work under harsh environment**



II . Main Use

- **Frontier and coast defense, Military/Police, Border defense**
- **Oilfields, Railways, Airports, Harbors, Fireproofing, Large areas real-time monitoring**

III. Technical Indicators

Effecting Distance	Detecting distance: 8000m for vehicles, 2800m for people in total darkness; Recognition distance: 2000m for vehicles and 700m for people in total darkness; Identification distance: 1000m for vehicles and 350m for people in total darkness.
Detector	1. fourth generation of uncooled focal plane infrared detector; 2. resolution at 324×256 pixels; 25Hz 3. spectrum range 8~14μm; 4. NETD 50mk

Lens	<ol style="list-style-type: none"> 1. Focal length: 36~180mm continuous optical zooming; 2. F=1.2; 3. FOV: 3.9° × 2.9° ~ 19° × 14.5° 4. GE or Zn-Se material;
Image Process	<ol style="list-style-type: none"> 1. Built-in correcting circuits, no need of TEC; working temperature -40~+75°C, good picture uniformity 2. Dynamic Detail Enhancer(DDE) 3. 10 pseudo color and hot black/hot white formats 4. Automatic Gain Control(AGC) technology 5. 2x digital magnification
Interface	<ol style="list-style-type: none"> 1. RS485(PELCO D protocol, Baud rate 2400bps/s), RS-232(optional) 2. OSD menu 3. PAL compound video output 4. AC220V/AC24V/DC12V(optional) 5. waterproof navigation outlet
Size and Weight	<ol style="list-style-type: none"> 1. size: 380mm × 190mm × 205mm 2. weight: 7Kg
Others	<ol style="list-style-type: none"> 1. aluminum shell, 99.999% nitrogen inside 2. working temperature: -25°C~+55°C 3. storage temperature: -40°C~+65°C 4. under PH6.5~7.2, continuous spraying fog for 48 hours 5. power consumption: 8w(normal)

IV. Effect Demo

