

# GÜCÜNÜ BİLGİDEN ALIR



Lightweight  
Low Power



Electro Optic  
Systems

# NEZİH

**NFWS FUSION**  
THERMAL SIGHT



## GENERAL

- New generation product (3rd Generation)
- New grid installation and software update in the field
- Use with day vision sniper scopes
- High range performance
- Advance image processing algorithms
- Low power consumption
- Compact size
- Low weight
- Effective target detection (hot targets appear in red)
- Robust, durable and military environmental cond
- Video and photo recording
- Export image

## ALTAY NFWS Fusion Thermal Sight

## APPLICATION

- NEZIH Fusion Weapon Sight (NFWS) has advance image processing architecture combines images from two different sensors in a single layer, providing users with a perfect fusion image, a robust, lightweight, modular and low power consumption structure with superior thermal imaging technology to give users equally good.



## SPECIFICATIONS

### Detectors

|                            |  |
|----------------------------|--|
| Detector Type              | Uncooled microbolometer                            |
| Detector Material          | ASi  |
| Detector Pitch             | 17 $\mu\text{m}$ x 17 $\mu\text{m}$                |
| Spectral Band              | 8 $\mu\text{m}$ to 14 $\mu\text{m}$                |
| Resolution                 | 640 (Horizontal) x 480 (Vertical)                  |
| Sensitivity (f#1.0, 300 K) | < 50 mK (for 17 $\mu\text{m}$ x 17 $\mu\text{m}$ ) |

### Optical Interface

|                              |  |
|------------------------------|--|
| Effective Focal Length (EFL) | 35 mm ( $\pm 5\%$ )  |
| FOV (Horizontal)             | 17.6° ( $\pm 5\%$ ) (for 17 $\mu\text{m}$ x 17 $\mu\text{m}$ ) |
| f/#                          | 1.2 ( $\pm 5\%$ )  |
| Focus Type                   | Fixed focus, Athermalized                                      |
| Focus Range                  | 1m to infinity (EFL: 35 mm)                                    |

### Mechanical Interface

|                                  |  |
|----------------------------------|--|
| Dimensions (without accessories) | 100 mm x 98 mm x 170 mm ( $\pm 10\%$ ) |
| Weight (without accessories)     | 900 gr ( $\pm 10\%$ )                  |

### Imaging Performance

|                    |   |
|--------------------|---|
| Frame Rate         | 25 Hz [CCIR (PAL)]  |
| Time-to-image      | < 2 sec   |
| Digital Zoom       | X1, X2, X4  |
| Noise Cancelation  | Adaptive Temporal and Spatial Noise Cancelation                 |
| Detail Enhancement | Edge Aware Adaptive Digital Detail Enhancement                  |
| Image Enhancement  | Plateau-based Adaptive Histogram Equalization / Linear / Manual |
| Color Palette      | Up to 8 different palettes                                      |
| Live Calibration   | Periodically or on demand                                       |

### Interfaces

|                                     |   |
|-------------------------------------|---|
| Communication                       | RS-232  |
| Power                               | 2 rechargeable 18650 type lithium - ion batteries |
| Power Input Voltage                 | 6 V to 17 V                                       |
| Operation time with one battery set | > 24 Hours  |
| Maximum Power Consumption           | < 1 W   |
| Display                             | 800 X 600 Colored Oled Display                    |
| Analog Video Output                 | CCIR (PAL)  |
| Diopter Adjustments                 | -6 / +2   |

### Environmental Conditions

|                    |             |
|--------------------|-------------|
| Environmental Spec | MIL-STD-810 |
|--------------------|-------------|

### Accessories

|   |
|---|
| Two rechargeable 18650 type lithium ion batteries             |
| Battery charger (for charging two batteries at the same time) |
| Piccatiny mounting adapter                                    |
| Eyecup  |
| Front lens protection cover                                   |
| Lens cleaning kit   |
| Transportation bag  |
| Reflex sight (optional)                                       |
| Solar charger (optional)                                      |
| Piccatiny rail (optional)                                     |

Specifications are subject to change without notice.