

# GÜCÜNÜ BİLGİDEN ALIR



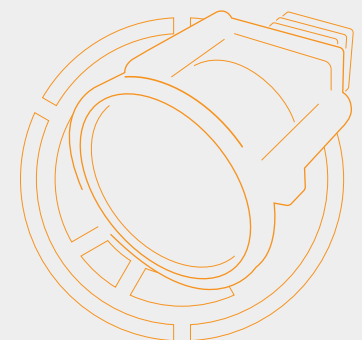
Lightweight  
Low Power



Electro Optic  
Systems

# AIK<sup>1575</sup>

INFRARED  
CAMERA



# AIR<sup>1575</sup> ALTAY Infrared Camera

## GENERAL

**AIR-1575** IR Camera is continuous zoom thermal imaging camera in LWIR band, adopts continuous zoom thermal imaging technology, both for a wide range of search, but also to identify distant targets. The product overcomes the shortcomings of the fixed focal length or dual field of view thermal imaging.

- Improves survivability and mission capability
- High range performance
- Advance image processing algorithms
- Low power consumption
- Fast start-up time
- Compact size
- Low weight

## APPLICATION

- Security
- Surveillance
- Homeland Security
- Unmanned Air Vehicle (UAV)
- Hand Held Thermal Imagers (HHTI)



## SPECIFICATIONS

System	
Spectral Band	8-12 $\mu\text{m}$ (LWIR)
Array Type	Uncooled Microbolometer
Detector	640 (Horizontal) x 480 (Vertical)
Pitch Size	17 $\mu\text{m}$ x 17 $\mu\text{m}$
NETD (detector; f/1, 300K)	< 50mK
Autofocusing	Available
Zoom time (NFOV to WFOV)	< 5.5 sec
Focus Mechanism	Motorized
Optical Interface	
WFOV - NFOV (Horizontal)	43.4° - 8.2° ( $\pm 10\%$ )   Motorized Continuous Zoom (Adjustable FOV's)
Focal Length	15mm - 75mm ( $\pm 10\%$ )
f/#	1.2 ( $\pm 10\%$ )
Minimum Focusing Range	7m ( $\pm 10\%$ ) (WFOV) - 18m ( $\pm 10\%$ ) (NFOV)
Mechanical Interface	
Max. Dimensions	$\varnothing 76$ mm x 150 mm
Max. Weight	400 gr
Electrical Interface	
Optical Interface	<b>Drive Voltage:</b> 6-12 VDC <b>Current Consumption:</b> 0.15A average, 0.3A peak <b>Communication Interface:</b> RS422, RS485, RS232
IR Module Interface	<b>Drive Voltage:</b> <b>Standard Version:</b> 2.8 V to 5.5 V   <b>Extended Version:</b> 6 V to 17 V <b>Power Consumption:</b> <b>Digital Output:</b> < 0.7 W   <b>Analog Output:</b> < 0.8 W <b>Communication Interface:</b> RS232 <b>Connector:</b> Hirose 40 board to cable <b>Digital Video Output:</b> Parallel Video 1.8 V LVCMOS (8-bit data, vsync, hsync, pixclk), Ethernet (optional) <b>Analog Video Output:</b> PAL <b>GPIO:</b> 8 pins 1.8 V LVCMOS (Configurable wrt to customer requirements) <b>External Trigger:</b> Yes (controlled with 1 GPIO)
Imaging Performance	
Frame Rate	25 Hz
Time-to-image	< 2 sec (typically 1 sec)
Digital Zoom	X1, X2, X3, X4, X8
Digital Zoom Continuous	From X1 to X8 with 0.02 steps
Noise Cancellation	Adaptive Temporal and Spatial Noise Cancellation
Detail Enhancement	Edge Aware Adaptive Digital Detail Enhancement
Image Enhancement	Plateau-based Adaptive Histogram Equalization/Linear/Manual
Color Palette	Up to 8 different palette
Live Calibration	With Shutter (periodic or externally controllable)
Environmental Conditions	
Environmental Spec	MIL-STD-810

Specifications are subject to change without notice.