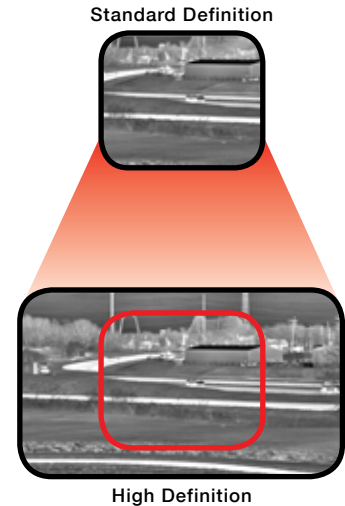
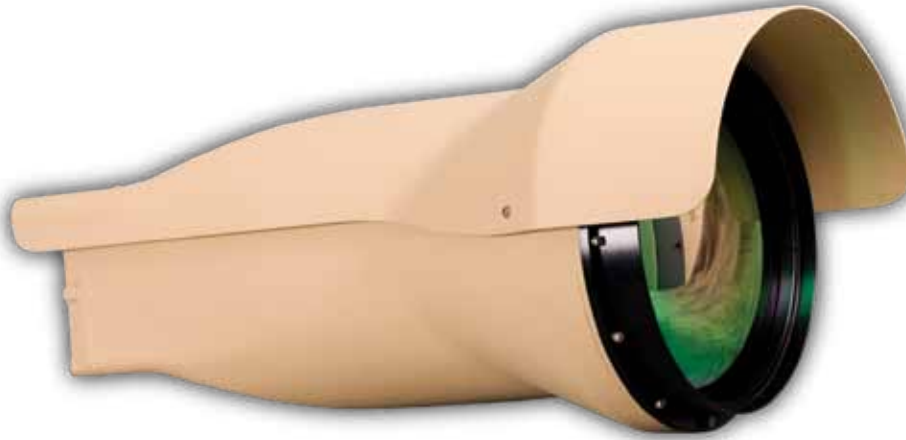


High Definition Wide Area Long Range Surveillance Sensor



The high-definition variant of the Wide Area Long Range Surveillance Sensor (WALRSS) is a cooled, highly sensitive mid-wave IR camera with 4 times the number of pixels as the standard definition 640 x 512. Designed for long-range surveillance and security applications, WALRSS HD puts more pixels on target and provides substantially sharper imagery with the highest possible detail, making analysis more accurate and reliable. A Cincinnati Electronics (CE) designed and fabricated 1,280 x 1,024 reticulated InSb MWIR sensor, mated with a continuous zoom 200-1,200 mm lens and our enhanced image processing features, allows the user to achieve man detection capability at ranges beyond 30 km.

FEATURES

- True HD (1,280 x 1,024) infrared sensor
- Continuous zoom lens
- Compact structure
- Patented CE image enhancement processing
- Superior ruggedization
- Critical IR sensor technology is 100% designed, manufactured, and supported by CE
- Multiple system control interfaces and video outputs
- Integration flexibility
- High sensor reliability

BENEFITS

- Offers a wider field of regard, longer range capability, and sharper imagery
- Allows the operator to frame the field of regard to suit the surveillance need and achieve superior imaging capability at long ranges.
- Provides small size, light weight and low power consumption
- Enables the user to discriminate the target from background & clutter at longer ranges
- Extends operational life – proven in the harshest environments – reducing life cycle costs
- Ensures long term support and reduced obsolescence issues
- Offers flexibility and easy fielding – ideal for upgrades of legacy systems or integration into new designs
- Operates as a stand-alone IR camera or as part of an integrated multi-sensor system
- Higher operational availability, reduced maintenance, lower life-cycle costs



High Definition Wide Area Long Range Surveillance Sensor

CAMERA SYSTEM PARAMETERS

Sensor Type	MWIR InSb reticulated
Sensor Size	1,280 x 1,024 pixels, 15µm pitch
Spectral Band	3.6-5.0µm with CO ₂ notch
System Control	RS-422 Serial Interface
Video Format	RS-170A (Analog) HOTLINK-II (Digital) CCIR (Optional) Firewire IEEE 1394 Camera Link (Optional) NTSC or PAL

LENS PARAMETERS

Focal Length	200-1,200 mm Continuous Zoom
Wide FOV	200 mm (5.5°x 4.4°)
Narrow FOV	1,200 mm (0.9°x 0.7°)

MECHANICAL/ENVIRONMENTAL

Weight	<50 lbs.
Size (inches)	24.6 L x 12.0 W x 12.0 H
Operating Temperature	-40°C to +65°C

POWER REQUIREMENTS

Power Source	+28 VDC and +15 VDC (Mil-704E Normal Conditions)
Power at Steady State	<31 Watts

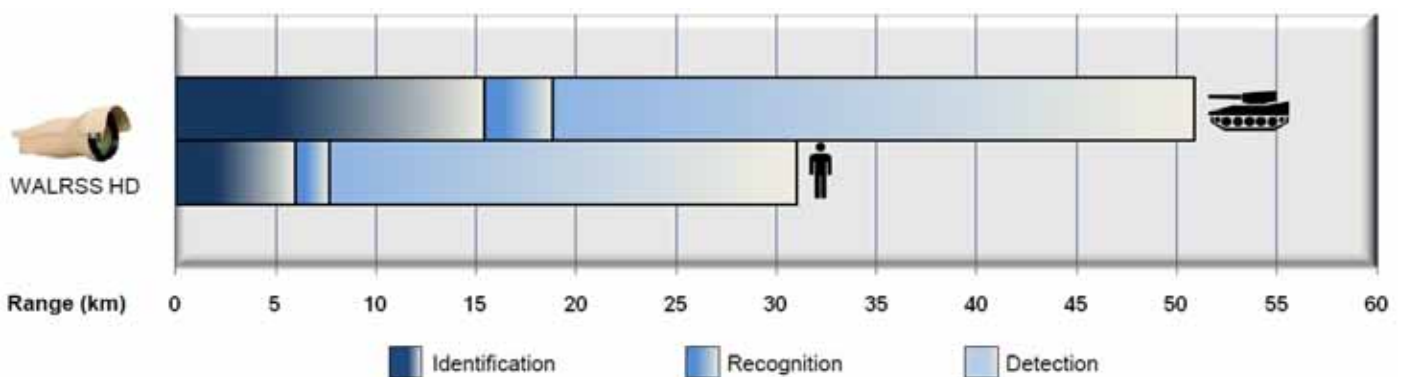
FEATURES AND CAPABILITIES

WALRSS HD provides a full suite of advanced image processing features including:

- Local area contrast enhancement – proprietary detail enhancement algorithm



- Interpolated electronic zoom up to 4x
- Operator guided self-calibration via 3 or 5 point non-uniformity correction (NUC)
- Auto focus
- Image stabilization
- Edge enhancement



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