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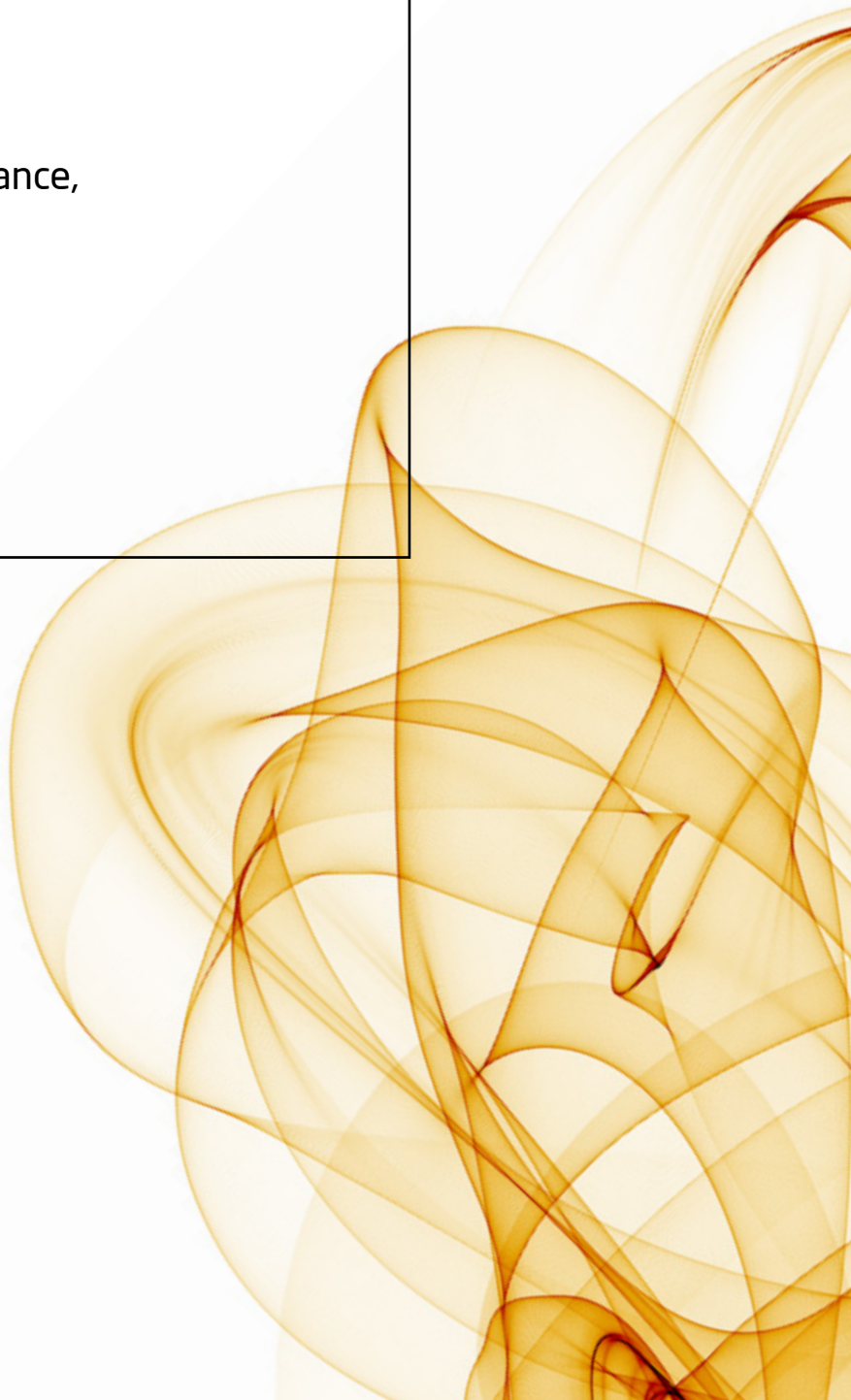
DEFENSE & SECURITY

ALPHARD

FOR LONG RANGE SURVEILLANCE

Máximum flexibility and performance,
long range surveillance 24/365

indracompany.com



ALPHARD

for Long Range Surveillance



Family of open modular systems for observation and surveillance.

The Alphard is based on a high performance pan & tilt with high capability for strong wind loads and high sensor loads.

SYSTEM OPERATIONAL DETAILS

ALPHARD is a family of products developed by Indra in the field of security and defense providing search, follow up, classification and tracking of long distance targets during 24 hours, 365 days a year.

ALPHARD combines an optimum selection of last generation electro-optical sensors over a high mobility gyro-stabilized platform.

The system can be fully integrated with local or remote radar data through friendly HMI software, providing identification and location of a mapping target.

Additionally the system incorporates a series of image processing modes that improve the capacities of the acquired images, elaborating and classifying collected data as well.

ALPHARD is easily adaptable to the specific requirements of a given application; its modularity allows a simple on-site maintenance as well as a direct upgrade path for new sensors and available technologies.

ALPHARD configuration increases the time of operability, reduces the cost of maintenance, and increases the life cycle of the system.

ALPHARD uses a modular pan & tilt platform which can incorporate up to 5 advanced electro optical sensors and it is designed to fulfill the present and future needs of modern surveillance systems that require and affordable "all in one" solution for:

- Observation/Surveillance of large areas on patrol.
- Determination of object coordinates.
- Operation with optimum performance Day/Night and on reduced visibility situations like fog, rain, mist, dust, smoke and camouflage or other visible disguise.

**AS A STAND ALONE DEVICE
OR FULLY INTEGRATED INTO A
SURVEILLANCE SYSTEM**

APPLICATIONS

- Observation/surveillance of large areas: on fixed towers or mobile vehicles.
- Recognition and **positive** Identification.
 - Designed for continuous operations 24 hours / 365.
 - Exact and fast transmission of object coordinates.
- Border protection and surveillance: suitable for towers, vehicles or ships.
- Very effective against smoke, dust or camouflage.
- The system can be fully integrated into command Centers and with other sensors (radars, etc.).
- Used by police and military forces over the world in the most severe environments.

ADVANCED ZOOM MULTISENSOR

- State of the art 3rd^a Generation "Full TV" (640 x 512) thermal camera with 28X optical zoom.
- Color TV camera with 140 X optical zoom (Optional HDTV).
- Eyesafe Laser rangefinder with 20 Km maximum range.
- Advanced Digital Image processing:
 - Automatic focus on both IR and TV.
 - Pseudo-color: 4 selectable color palettes.
 - Active noise reduction.
 - Local Area contrast enhancement and edge enhancement.
- Robust design.
- Flat windows for easy cleaning.

MAIN FEATURES

- State of the art sensors: long range.
- Easy to upgrade, modular design.
- Low cost over lifetime.
- Panoramic image capability.
- Smooth low speed motion for long range tracking.
- Highly resistant to wind.



MMI FUNCTIONALITY

- Control and Status of All ALPHARD components.
 - Pan & Tilt motion.
 - Zoom / focus with preset values.
 - Distance and coordinate measurement.
 - Management of additional displays.
- Geo location of targets.
- Definition of alarm zones.
- Elaboration of reports.
- Video recording & playback.
- Automatic target location.
- Automatic direction of cameras to located targets.
- Programmable scan of areas of interest.



INTERNATIONAL REFERENCES

- Latvian Border Surveillance (NAMSA).
- Spanish SIVE - Coastal Surveillance (Spanish Ministry of Interior).
- Portuguese Border Surveillance System (SEF Portugal -Border Guard).
- Long Range Electro optical Tracking System for Aircraft. EOTS (EHSIM - Air Force).
- Persistent Intelligence Capability at Kabul International Airport. KAIA (NCI a Agency (NATO) - ISAF Forces, Afghanistan).
- Surveillance System for ISAF HQ (NCI A Agency (NATO) - ISAF Forces, Afghanistan).
- Surveillance System for Kazajistan (Marine Forces of RK).

BORDER PROTECTION

SELTOR OR VEHICLE MOUNTED

- Standard or Custom Shelters.
- Vehicle independent.
- Option of low noise generator or Air Conditioned.
- Two consoles, long and comfortable observation.
- Extensive recording capabilities.
- Wireless, Radio SATCOM or fiber optics communication.
- Very long Range: 20 Km.
- Border or coastal surveillance.



INDRA's ALPHARD IS BECOMING COMMONPLACE IN BORDER SURVEILLANCE AND INTELLIGENCE AROUND THE WORLD



ISO 9001:2000



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Product improvements may require
changes in the characteristics
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Indra reserves the right to modify
the product without prior notice.