

SURVEILLANCE & ELECTRO-OPTICS INDIA 2025

11 June 2025
Air Force Auditorium, New Delhi

Surveillance

Observation and Monitoring

- Aerial, Space, Ground, Maritime Surveillance

Signals Intelligence (SIGINT)

- Communication Interception, Electronic Signals Analysis

Imagery Intelligence (IMINT)

- Electro-Optical Imagery, IR & TI Imaging, Synthetic Aperture Radar

Acoustic and Seismic Monitoring

- Acoustic Detection, Seismic Sensors

CBRN Surveillance

- Detection Systems, Atmospheric Sampling

Drone and UAV Surveillance

- Reconnaissance, Swarm Drones

Satellite Surveillance

- Real-Time Imaging, Geospatial Intelligence, Weather Monitoring

Persistent Surveillance

- Long-Endurance Platforms, Wide-Area Motion Imagery

Electronic Warfare Surveillance

- Radar Detection, Counter-Surveillance


Electro-optics for Military Operations

- Enhanced Vision
- Real-Time Monitoring
- Persistent Observation
- High-Resolution Imaging
- Multispectral Targeting
- Laser Designation
- Laser-Guided Weapons
- Fire Control Systems
- Anti-Drone Systems
- Terrain Mapping

- Improved Pilot Vision
- Optical Jamming.
- Camouflage Detection
- AI Integration
- Unmanned Vehicles
- Space Surveillance
- Satellite Imaging
- Missile Defense


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SURVEILLANCE & ELECTRO-OPTICS INDIA 2025

The rapidly evolving landscape of military surveillance and electro-optics demands a collaborative platform where armed forces, defense industry professionals, and researchers can converge to explore the latest advancements, share insights, and foster innovation. To focus on this need, the event will include Aerial and Space-based, Terrestrial, Maritime and Underwater Surveillance, and Advanced Electro-optics within the realm of military surveillance and electro-optics.

Objectives

The primary objectives of the seminar are to:

- **Review Latest Advancements.** Provide a detailed overview of the cutting-edge technologies and innovations in the field of military surveillance and electro-optics.
- **Facilitate Collaboration.** Bring together armed forces and the defense industry to facilitate meaningful discussions, enabling them to better understand each other's requirements and capabilities.
- **Knowledge Exchange.** Foster a platform for knowledge exchange, where participants can share experiences, best practices, and lessons learned.
- **Showcase Capabilities.** Highlight the latest developments and capabilities by industry.

Seminar Structure

The seminar will be organized into four key segments, each focusing on a specific aspect of military surveillance and electro-optics.

- **Aerial and Space-Based Surveillance.** To include:
 - Advancements in Airborne Reconnaissance Systems.

- Satellite-based Earth Observation Systems.
- High-Altitude Long-Endurance (HALE) Unmanned Aerial Vehicles.
- Space-based Imaging Technologies for Military Applications.

- **Terrestrial, Maritime and Underwater Surveillance.** To include:

- Advances in Ground-Based Radar Systems.
 - Unmanned Ground Vehicles for Surveillance.
 - Night Vision and Thermal Imaging Technologies for Land Forces.
 - Sensor Integration and Data Fusion on the Battlefield.
 - Underwater Drones and Autonomous Submersibles.
 - Naval Surveillance Radar Systems.



- **Electro-Optics for Target Acquisition and Engagement.** To include:

- Long-range and advanced electro-optic sensors
- Multispectral (optical, infrared, and ultraviolet spectrums) targeting
- EO for laser targeting and Fire Control Systems
- LIDAR (Light Detection and Ranging) for 3D maps and mission planning.
- Distributed Aperture Systems (DAS) for 360° view.
- EO systems for jam and disrupting enemy targeting systems

The seminar on Military Surveillance & Electro-optics aims to be a catalyst for progress in the field, fostering collaboration and innovation among key stakeholders. By bringing together the armed forces, defence industry, and research community, the event will contribute to the advancement of technologies that play a critical role in ensuring the conduct of successful operations.

PROGRAMME WED 11 JUNE 2025

0830 - 0930 hrs Welcome Tea

SESSION 1 – INAUGURAL SESSION (0930 – 1045 hrs)

Welcome Address **Air Vice Mshl Anil Golani**, Director General, Centre for Air Power Studies.
 Inaugural Address **Air Marshal Ashutosh Dixit**, AVSM, VM, VSM, Chief of Integrated Defence Staff
 Keynote Address **Lt Gen Rahul R Singh**, AVSM, VSM, Deputy Chief of Army Staff (Capability Development & Sustenance)
 Special Address **Air Vice Mshl Tejpal Singh**, AVSM, VM, ACAS (Plans), Air HQ
 Industry Perspective **Col KV Kuber**, Director Defence & Aerospace, Ernst & young.
 Release of Report EY-IMR Knowledge Paper on Surveillance & Electro-optic Devices
 1045 – 1115 hrs Refreshments & exhibition.

SESSION 2 – AERIAL AND SPACE-BASED SURVEILLANCE (1115 – 1340 hrs)

Chairperson: **Air Vice Marshal Rahul Bhasin**, ACAS Ops (Space), Air HQ
 1115 – 1130 hrs Introduction and Opening Remarks by the Chairman.
 1130 – 1145 hrs Latest developments and requirements for Tactical Recce (EO, SAR, IR Search).
Air Cmde Ops (Remote), Air HQ.
 1145 – 1200 hrs Space-based ISR for early warning. Speaker from **Defence Space Agency**
 1200 – 1215 hrs Industry presentation. **Agnishwar Jayaprakash**, Founder & CEO, Garuda Aerospace.
 1215 - 1230 hrs Industry Presentation. **Ram Biron**, SCD, Israel.
 1230 – 1245 hrs Industry Presentation. Speaker from **Rafael Advanced Defence Systems.**
 1245 – 1300 hrs Industry presentation. **Vinod Yadav**, Associate VP Optronics & Computing Platform, Tata Advanced Systems Ltd.
 1300 – 1315 hrs Enabling Next Generation Surveillance Systems with Ansys Digital Engineering. **Prem Andrade**, Distinguished Engineer, Ansys, Inc.
 1315 – 1340 hrs Q&A/ discussion.
 1340 – 1430 hrs Lunch & exhibition

SESSION 3 – TERRESTRIAL, MARITIME AND UNDERWATER SURVEILLANCE (1430– 1550 hrs)

Chairperson: **Rear Adm Vivek Dahiya**, ACNS (Staff Requirements), Naval HQ
 1430 – 1445 hrs Introduction and Opening Remarks by the Chairman.
 1445 – 1500 hrs Industry presentation. **Shivang Anirudh Mishra**, Marketing Manager, Optimized Electrotech
 1500 – 1515 hrs Strengthening Indian Defence Industry by Self Reliance. **Sampathkumaran ST**, Executive President- Defence, HFCL.
 1515 – 1525 hrs Tracking threats and C&R for Air Defence. **Col Manoj Joshi, Col (C&R), Army AD Dte**, Army HQ.
 1525 – 1535 hrs Augmentation of Maritime Surveillance by IN. **Cdr (AW), ACNS (Air)**, Naval HQ.
 1535 – 1550 hrs Q&A/ Discussion.

SESSION 4 – ELECTRO-OPTICS FOR TARGET ACQUISITION AND ENGAGEMENT (1550 – 1700 hrs)

Chairperson: **Air Vice Marshal AP Saraph**, VSM, ACAS (Weapon), Air HQ
 1550 – 1605 hrs Introduction and Opening Remarks by the Chairman.
 1605 – 1620 hrs Intelligence Gathering with EO Sensors for Today's Missions. **Ninitn Agarwal**, Sc G, IRDE, DRDO
 1620 – 1630 hrs Surveillance and Target Acquisition. **Brig Ops, Artillery Directorate**, Army HQ.
 1630 – 1645 hrs Q&A/ Discussion.
 1645 – 1655 hrs Closing Address. **Air Vice Mshl Anil Golani**, Director General, Centre for Air Power Studies.
 1655–1700 hrs Vote of Thanks. **Maj Gen Ravi Arora**, Retd, Chief Editor Indian Military Review.
 1700 hrs Refreshments and close.

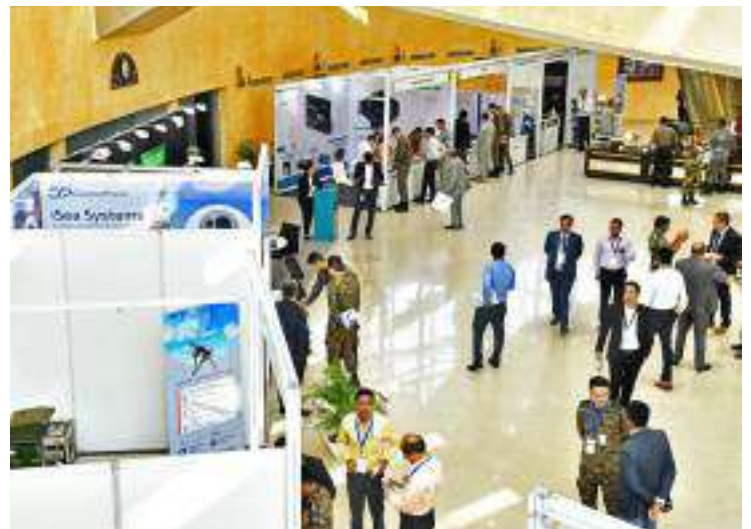
PARALLEL PROGRAMME - B2G MEETINGS (Conference Room, AF Auditorium)

1430 - 1630 hrs B2G meetings (For sponsors and exhibitors).

Highlights from Surveillance & Electro-optics Event



Patronised by the Armed Forces' Surveillance and Electro-optics officers



Senior subject matter experts explain Services' requirements



Network, exhibit, influence, lead!



Direct B2G meetings with procurement officers