

SURVEILLANCE & ELECTO-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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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.



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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 Jeetendra Mishra**, AVSM, VSM, AOC-in-C Western Air Command.
Keynote Address **Air Marshal Awadhesh Kumar Bharti**, AVSM, VM, Director General Air Ops, Air HQ.
Special Address **Dr BK Das**, DS & DG Electronics & Communication (ECS), DRDO
Industry Perspective **Cdr Gautam Nanda**, NM, Associate Partner, KPMG
Release of Report KPMG-IMR Knowledge Paper on Surveillance & Electro-optic Devices
1045 – 1115 hrs Refreshments & exhibition.

SESSION 2 – AERIAL AND SPACE-BASED SURVEILLANCE (1115 – 1345 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 Int (Ops), Air HQ.
1145 – 1200 hrs Space-based ISR for early warning. Speaker from **DIPAC, Defence Space Agency**
1200 – 1215 hrs UAV sensor payloads for persistent surveillance. **Col Avn-10, Army Aviation Directorate.**
1215 - 1230 hrs Industry presentation. **Agnishwar Jayaprakash**, Founder & CEO, Garuda Aerospace.
1230 – 1245 hrs Industry Presentation.
1245 – 1300 hrs Industry presentation.
1300 – 1315 hrs Industry presentation.
1315 – 1330 hrs Q&A/ discussion.
1330 – 1430 hrs Lunch & exhibition

SESSION 3 – TERRESTRIAL, MARITIME AND UNDERWATER SURVEILLANCE (1430– 1600 HRS)

Chairperson: **Air Vice Marshal Ichettira Iyappa Kuttappa**, VM, VSM, ACAS (Int), Air HQ.
1430 – 1445 hrs Introduction and Opening Remarks by the Chairman.
1445 – 1500 hrs Industry presentation.
1500 – 1515 hrs Latest developments in tracking threats and C&R for Air Defence. **Colonel (C&R), Army AD Directorate, Army HQ.**
1515 – 1530 hrs Augmentation of Maritime Surveillance by IN. **Cdr (AW), ACNS (Air)**, Naval HQ.
1530 – 1545 hrs Q&A/ Discussion.

SESSION 4 – ELECTRO-OPTICS FOR TARGET ACQUISITION AND ENGAGEMENT (1545 – 1700 hrs)

Chairperson: **Air Vice Marshal K Radhakrishna**, ACAS (Systems), Air HQ
1545 – 1600 hrs Introduction and Opening Remarks by the Chairman.
1600 – 1615 hrs Intelligence Gathering with EO Sensors for Today's Missions. **Speaker from IRDE, DRDO.**
1615 – 1630 hrs Surveillance and Target Acquisition. **Brig Ops, Artillery Directorate, Army HQ.**
1630 – 1640 hrs Q&A/ Discussion.
1640 – 1650 hrs Closing Address. **Air Vice Mshl Anil Golani**, Director General, Centre for Air Power Studies.
1650 – 1700 hrs Vote of Thanks. **Maj Gen Ravi Arora**, Retd, Chief Editor Indian Military Review.
1700 hrs Refreshments and close.

PARALLEL PROGRAMME - B2G MEETINGS (Aravali Hall, Trishul Officers Mess)

1130 - 1330 hrs First Session of B2G meetings. (6 meeting rounds)
1430 - 1630 hrs Second Session of B2G meetings (6 meetings rounds).

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