



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
- Al Integration
- · Unmanned Vehicles
- Space Surveillance
- · Satellite Imaging
- Missile Defense

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he 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.

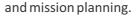
• **Showcase Capabilities.** Highlight the latest developments and capabilities by industry.

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
 A u t o n o m o u s
 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



- 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

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0830 - 0930 hrs Welcome Tea
SESSION 1 - INAUGURAL SESSION (0930 - 1045 hrs)
Welcome Address Inaugural Address Keynote Address Special Address Industry Perspective Release of Report Air Vice Mshl Anil Golani, Director General, Centre for Air Power Studies. Air Vice Mshl Anil Golani, Director General, Centre for Air Power Studies. Air Vice Mshl Anil Golani, Director General, Centre for Air Power Studies. Air Warshal Ashutosh Dixit, AVSM, VM, VSM, Chief of Integrated Defence Staff Lt Gen NS Raja Subramani, PVSM, AVSM, SM, VSM, Vice Chief of Army Staff Dr BK Das, DS & DG Electronics & Communcation (ECS), DRDO Col KV Kuber, Director Defence & Aerospace, Ernst & young. KPMG-IMR Knowledge Paper on Surveillance & Electro-optic Devices
1045 – 1115 hrs Refreshments & exhibition.
SESSION 2 – AERIAL AND SPACE-BASED SURVEILLANCE (1115 – 1330 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 Industry presentation. Agnishwar Jayaprakash, Founder & CEO, Garuda Aerospace. 1215 - 1230 hrs Industry Presentation. 1230 – 1245 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 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. 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 1600 – 1615 hrs 1615 – 1630 hrs 1630 – 1640 hrs 1640 – 1650 hrs 1650 – 1700 hrs 1700 hrs 1700 hrs 18 Vice Marshal K Radhakrishna, ACAS (Systems), Air HQ Introduction and Opening Remarks by the Chairman. Intelligence Gathering with EO Sensors for Today's Missions. Speaker from IRDE, DRDO. Surveillance and Target Acquisition. Brig Ops, Artillery Directorate, Army HQ. Q&A/ Discussion. Closing Address. Air Vice Mshl Anil Golani, Director General, Centre for Air Power Studies. Vote of Thanks. Maj Gen Ravi Arora, Retd, Chief Editor Indian Military Review. Refreshments and close.
PARALLEL PROGRAMME - B2G MEETINGS (Conference Room, AF Auditorium)
1430 - 1630 hrs B2G meetings (For sponsors and exhibitors).

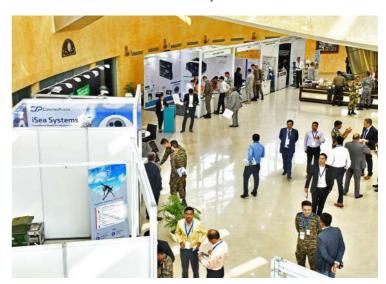
Highlights from Surveillance & Electro-optics Event





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