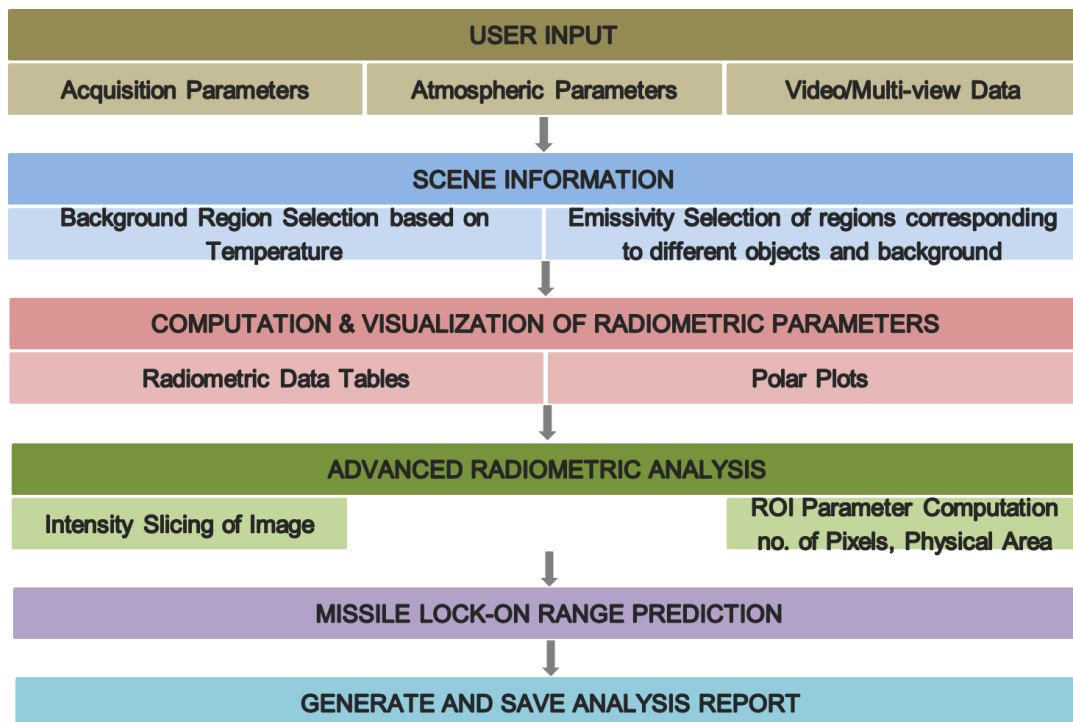
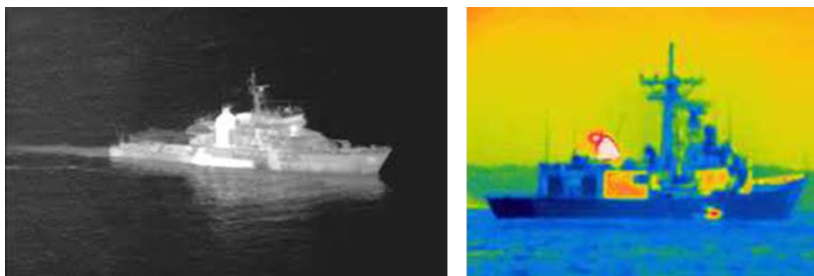


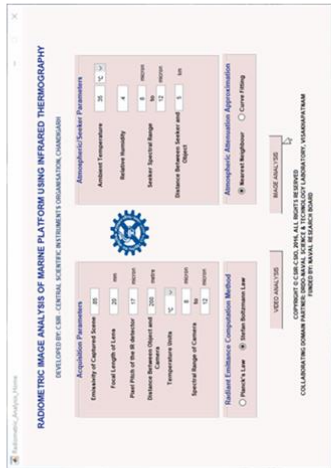
RadAnaTool: Radiometric Analysis Tool for Marine Platforms

All marine platforms are potential infrared targets due to the inherent IR signature due to internal and external heat source. New ship design programs and design changes of old ship are undertaken to ensure IR countermeasures (IRCM) and IR suppression systems (IRSS). IR signature analysis is critical part of stealth technology, which helps in reducing a platform's susceptibility to infrared guided weapons and surveillance sensors.

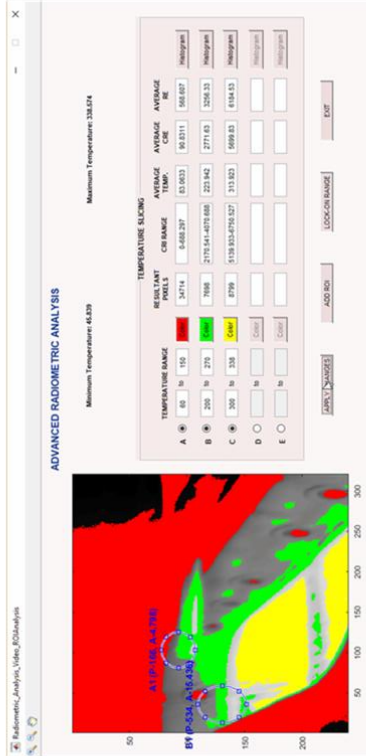
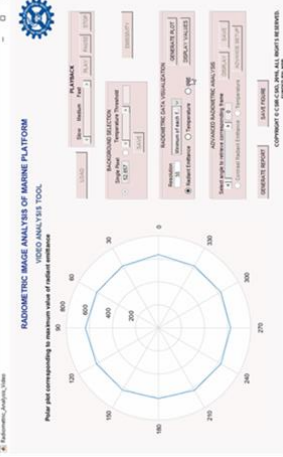
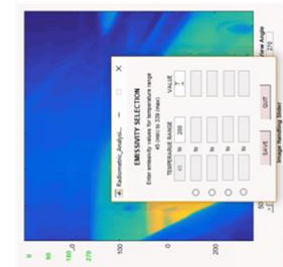
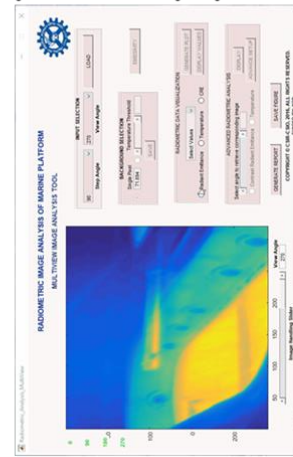


SALIENT FEATURES OF RADIOMETRIC ANALYSIS TOOL (RADANATOOL)

- Analysis of both radiometric video data or multiple images
- Estimation of attenuation due to CO₂ and H₂O in atmosphere
- Computation of radiant emittance from Temperature

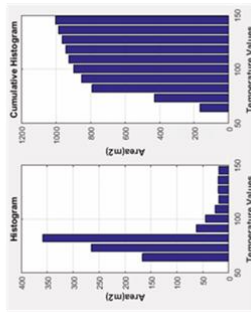


- Segmentation of background and Region of interest based on temperature
- Emissivity Correction
- Computation & visualization of radiometric parameters



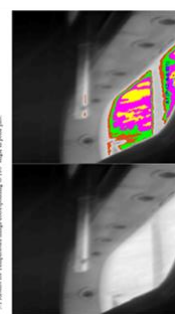
Advanced Radiometric Analysis

- Intensity slicing of image
- ROI selection
- Automatic computation of ROI parameters - no of pixels, physical area
- Cumulative histogram analysis



A SURFACE ANALYSIS RESULTS

1.1 Acquisition Parameters



ANALYSIS REPORT

1. USER DEFINED PARAMETERS

PARAMETER	VALUE	UNIT
1.1 Acquisition Parameters		
1.2 Emissivity Selection		
1.3 Radiation Data Visualization		
1.4 Approximate Computation Method		
2. ROI PARAMETERS		
2.1 ROI Parameters		
2.2 Emissivity Selection		
2.3 Radiation Data Visualization		
2.4 Approximate Computation Method		

- Seeker lock-on range computation
- Automatic generation of analysis report