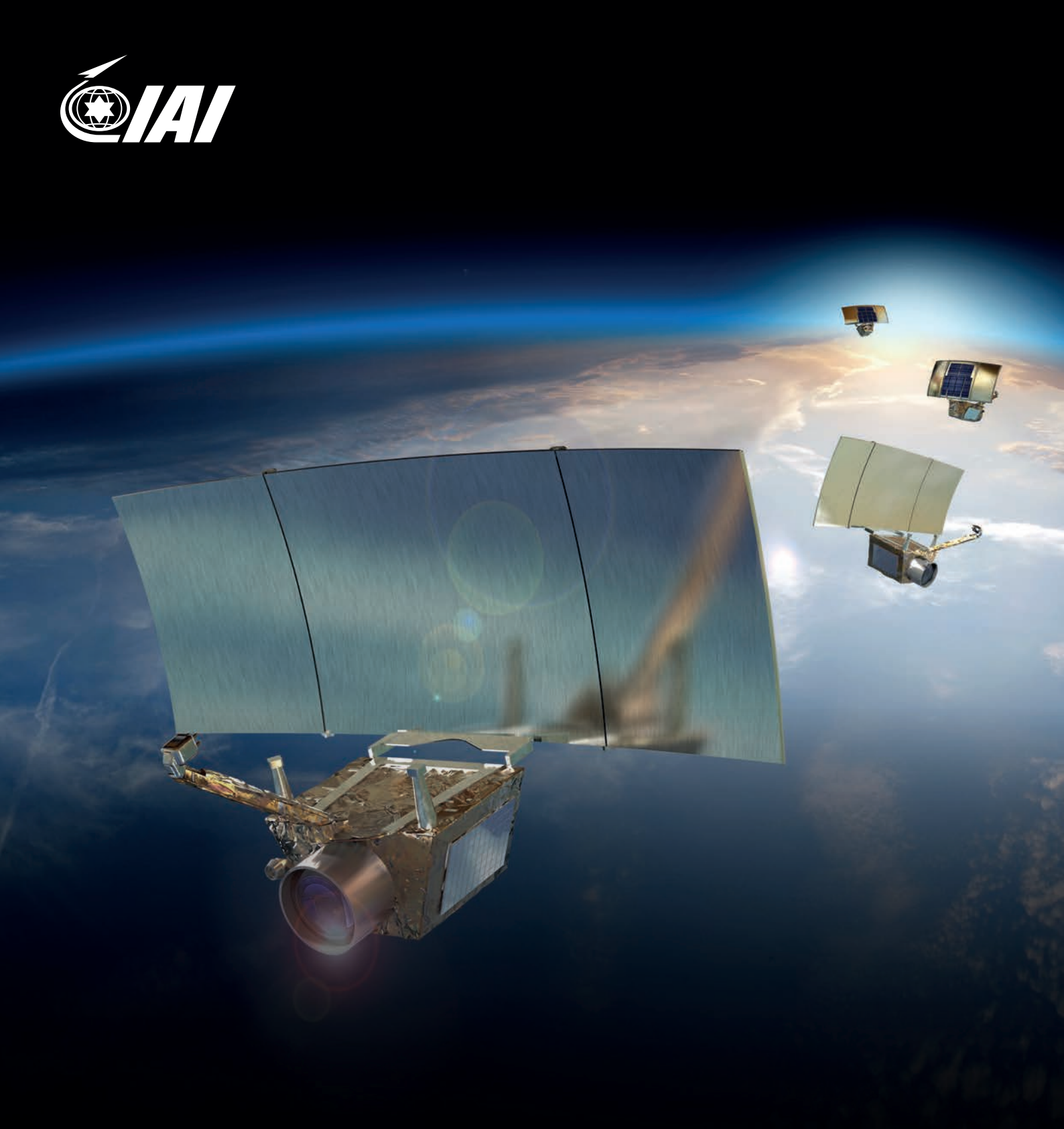
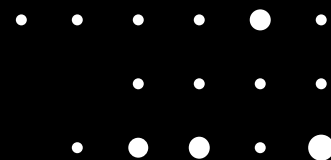




# OPTSAR 550

EO/SAR dual payload  
observation satellite





# OPTSAR 550

## EO/SAR dual payload observation satellite

### GENERAL

OPTSAR 550 is a dual payload satellite that enables EO/SAR/dual imagery collection. This state-of-the-art microsatellite enables unique target collection capabilities in various modes to provide rapid acquisition of high-resolution images. OPTSAR 550 avionics and payloads are based on IAI's extensive space heritage and proven space products, making it one of the best space imaging platforms to date.

### SPECIFICATIONS

|             |                                                                                                                                                                                                     |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Imaging     | EO/ SAR / dual                                                                                                                                                                                      |
| EO Payload  | Spectral bands: PAN,MS(RGB, NIR), high-resolution video/SWIR<br>Ground resolution: GSD 40 cm @ Nadir (0)<br>Swath: 5 km, unlimited scan<br>Imaging modes: Spot, Strip, Stereoscopic, Video          |
| SAR Payload | Resolution: Spot 0.3 m, Spot 0.6 m, Spot 1.0 m, Maritime Strips<br>Ground coverage: Spot size 4 km x 5 km<br>Look angle: Min angle 20° Max angle 49° (spot)<br>Imaging capacity: 40 spots per orbit |
| Dimensions  | 240 cm x 160 cm x 140 cm                                                                                                                                                                            |
| Lifespan    | 7 years                                                                                                                                                                                             |

### HIGHLIGHTS

- Concurrent SAR and EO imaging of same scene
- High quality optical imaging with 50 cm aperture and 2 focal planes
- Wide band radar for high SNR and effective detection in single look mode
- Wide swath unlimited EO scan and high-resolution video/SWIR
- Superior target coverage and imaging throughput in both SAR and EO
- High maneuverability enables effective imaging of close targets
- Fast image acquisition cycle

