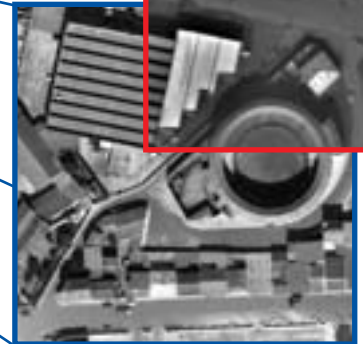


RecceLite Precise Information about the Tactical Situation ...



IR Sensor



VIS Sensor



We make it visible.

RecceLite

... Details for the Right Decision

Making the right decision requires prompt, accurate information about the tactical situation. RecceLite delivers exactly this information. Multi-spectral sensors permit daylight as well as night-time operations. They also provide necessary, high-resolution images with clearly recognizable details. The hardware and software systems on RecceLite have been systematically designed to cover the entire mission using only one system – from planning and execution to evaluation. The easy-to-use system enables quick image processing at the Ground Exploitation Station (GES), providing a comprehensive overview of the situation.



RecceLite

An integrated system

RecceLite is an integrated, easy-to-use reconnaissance system within the Litening product line and is based on the same infrastructure as the Litening pod. It contains several line replaceable units (LRU) for image processing, handling and storage, meaning that all basic maintenance functions, and the relevant equipment, are identical to that of the Litening pod. The aircraft interface is also identical. The FLIR wide field of view can be displayed for navigation on the aircraft's heads-up display.

The mission plan is downloaded to the Solid State Recorder (SSR) following mission planning at the Ground Exploitation Station (GES). During flight it is executed automatically and does not interfere with the pilot's ability to flexibly choose targets of opportunity.

Mission data can be downloaded to the GES following the mission or during the flight (data link) for further processing.

This provides the basis for a detailed evaluation.

- Integrated into the existing pod infrastructure
- Integrated into a stringent mission planning and data evaluation concept
- Integrated state-of-the-art multispectral sensors and data processing hardware



RecceLite Highlights

Pod related

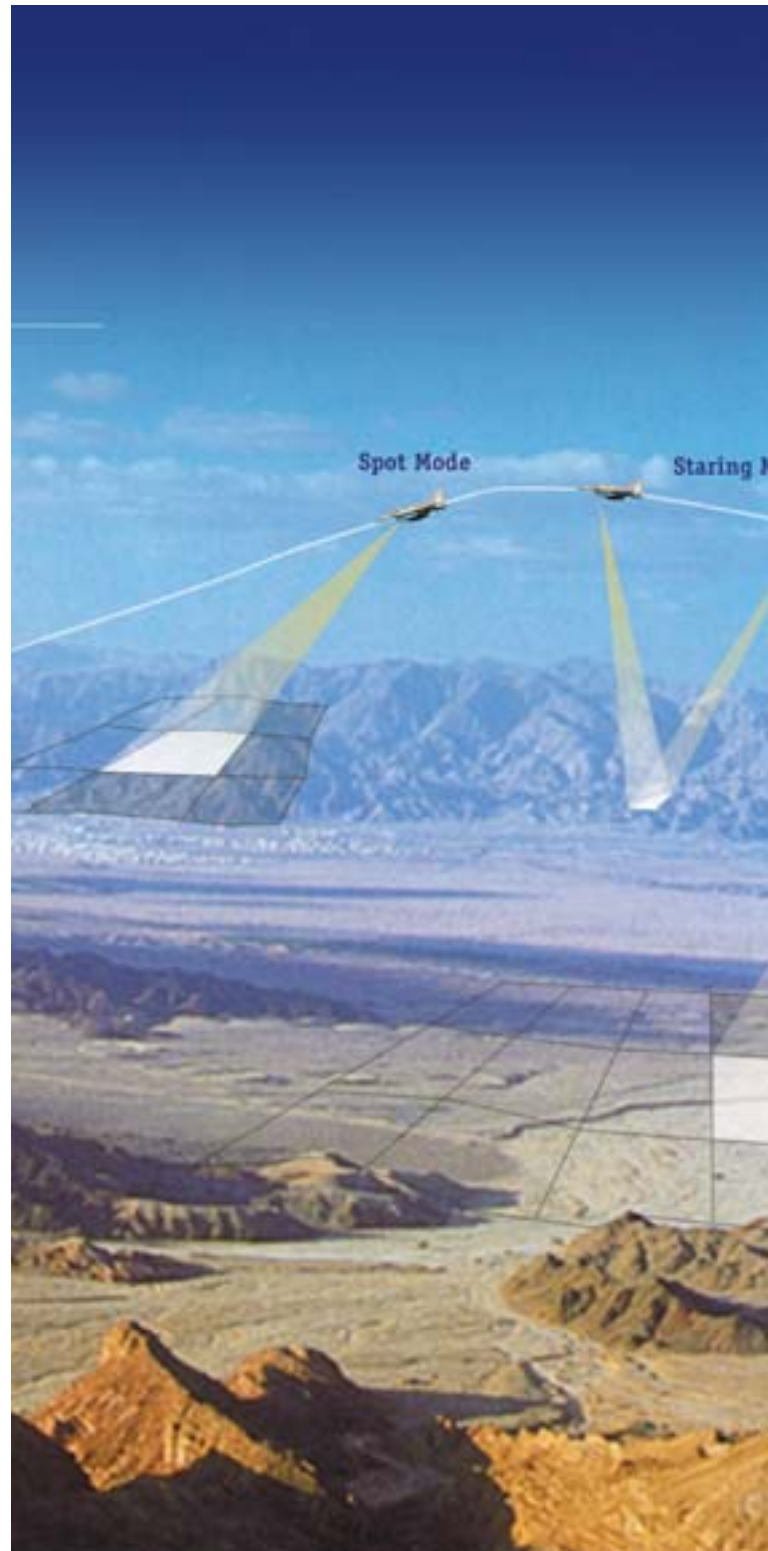
- Based on proven Litening targeting and navigation pod technology
- Maintenance infrastructure identical to Litening
- Mechanical, electrical and software interfaces are identical to Litening
- Excellent flight profile and low weight
- High speed and high precision sensor head do not interfere with aircraft maneuverability

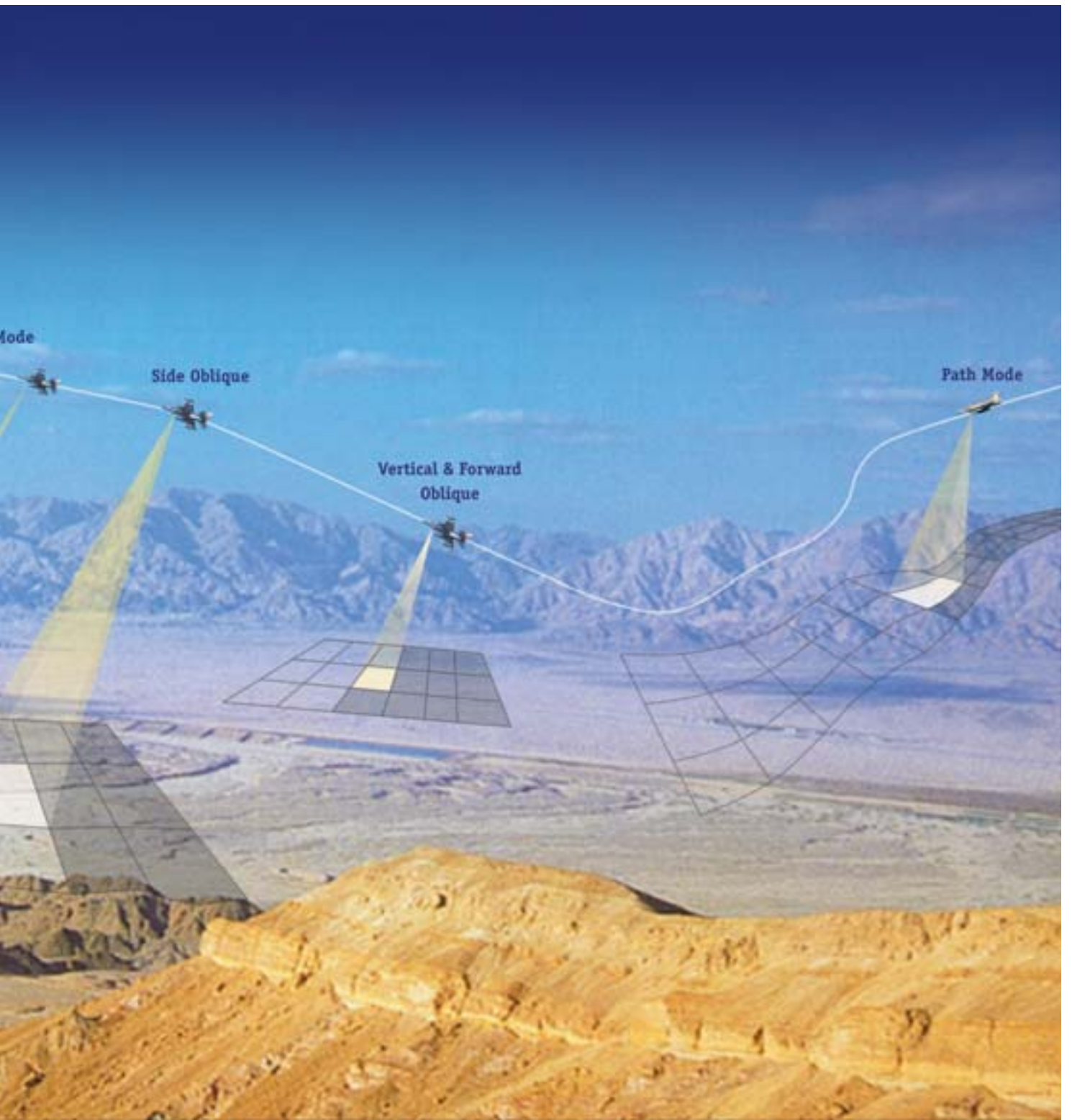
Sensor related

- Multi FOV VIS EO camera for full overview and minute details
- Multi FOV FLIR EO camera for night operation and multi-spectral information for day missions
- GPS accuracy registering and inertial mission data allow easy image processing

Mission related

- Automatic or manual control for various operation modes (strip scan, spot scan, stare scan)
- Full STANAG compatibility, Recce cycle according to NATO ATP-47
- Different configurations ranging from portable to a full shelter







The Ground Exploitation Station (GES) provides mission planning capability as a further building block of the Recce system. The ergonomically designed interface makes it easy to define waypoints and identify targets or areas of interest. Strip, spot and scan modes for image capturing can be easily assigned by the sensor manager. Mission planning, coordinated with flight planning, can be performed by a single person using the basic configuration. The geo-referenced images are automatically stitched together for the data exploitation and it is even possible to generate stereo images. Complete data evaluation can also be performed by a single operator.



RecceLite

Technical Data

Pod

Full sphere FOR, excluding +-30 deg cone (rear) and aircraft body obscurations
Dimensions: 220 cm long, 40 cm diameter
Weight: 210 kg



Sensors

VIS: tank detection at 30,000 ft from 30 km distance, tank identification at 30,000 ft and 10 km slant range

IR: tank detection at 30,000 ft from 30 km distance, tank identification at 20,000 ft and 6 km slant range



Ground Station

"Fly away" solution in suitcase size

"Set up and work" fully equipped shelter for multiple users in their respective roles (image analyst, reporter, Recce manager etc.)



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