

# Air observer apparatus ReTOB

The purpose of ReTOB is to detect low flying targets in areas, which are not covered by the radar means.

Retrieved 3D information about the detected targets is transferred to command and control post.



## ReTOB has the following basic characteristics:

- Integrated navigation means
- Target detection by day and thermal imager
- 3D coordinates measuring of targets by laser rangefinder and goniometer
- Bidirectional data communication
- Graphic and text display of requested information
- Automated sending of detected targets
- Radio communication utilizing the secured UHF radio, spare link communication
- Bidirectional voice communication
- Mechanical and climatic resistance, portable design
- Powered by an accumulator or external power source
- BITE diagnostic

From the technical point of view, the air observer configuration comprises a tripod, a goniometer with connected sensors, a rugged portable computer that communicates with the command & control post by means of a radio or wire. ReTOB operates by one operator only.





## Basic tactical and technical data

### Navigation system:

GPS mod SPS

GPS coordinates measuring accuracy <15 m

### Digital goniometer:

Electronic compass accuracy 0.5° RMS

Azimuth measuring accuracy 0.5° RMS

Elevation measuring accuracy 0.2° RMS

### Laser rangefinder:

Rangemin. 8 km (Mi-17, by day)

Range measuring accuracy  $\pm 5$  m

Optical zoom 8x

### Thermal Imager:

Band 3-5  $\mu\text{m}$

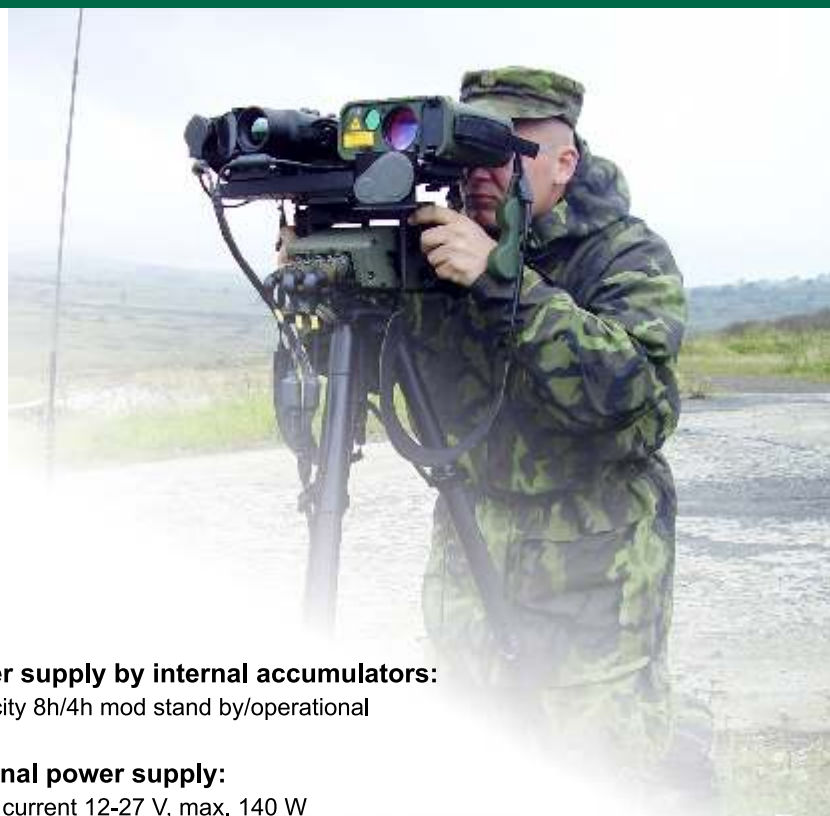
Rangemin. 5 km (Mi-17)

### Power supply by internal accumulators:

Capacity 8h/4h mod stand by/operational

### External power supply:

Direct current 12-27 V, max. 140 W



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