

MORAD-P - PAR

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MORAD-P is transportable precision approach radar representing the upgraded version of RP4/RP5 radar systems according to ICAO requirements. It is intended for efficient approach control of aircraft at civil/military airports even within adverse weather conditions. The upgrade consists in radar overhaul including out-of-date components replacement for advanced ones. Antenna system and transmitter unit are excluded from refurbishment. Supplier guarantees the below specifications and MORAD-P service life for at least 10 years.

Upgrade purpose:

- Improvement of radar parameters
- Increase of system stability
- Fully digital radar signal processing
- Digital output of radar data
- Service life extension for more than 10 years

Designed for:

- Military / civilian airports

System features:

- Isothermal container incl. air conditioning based on environment-friendly filling agent
- Computer aided diagnostics and maintenance system provided by central processing unit
- Receivers with low-noise amplifiers
- AMTI signal processing
- Angle information circuits with electronic alignment of antenna
- Supervisor display of PAR data, SP/EXT control and diagnostics
- Digital output of radar data
- Remote control

Basic characteristics

- Band X
- Transmitter 2x150kW pulse peak power, magnetron type
- PRF 2000Hz (stagger 9:10:11)
- Pulse Width 0,5 μs
- Range 50 km
- Antenna coverage
 - azimuth
 - vertical plane -3° to + 15°
 - horizontal plane ± 15°
 - elevation
 - vertical plane -1° to + 14°
 - horizontal plane -9° to + 9°
- Range accuracy 20 m
- Range resolution 80 m
- Azimuth accuracy 0,03°
- AMTI ground clutter suppression >32dB
- Primary data output digital (synthetic raw video compression format)
- Data plot/track output digital (ASTERIX format)
- Local tracker capacity 128 tracks
- Data interface LAN and link modem (optionally wireless comm.)
- Voice communication telephone AUT, intercom
- Power supply 3x230/400V/50Hz max input power 10kW
- UPS 10 min / standby mode without RF emission
- Environmental conditions -35°C to 50°C



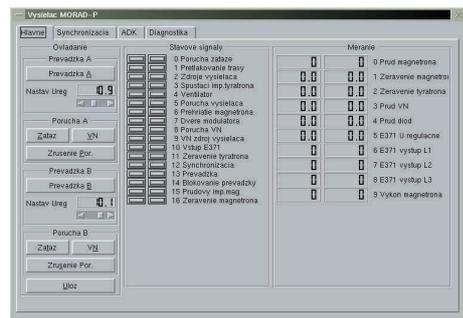
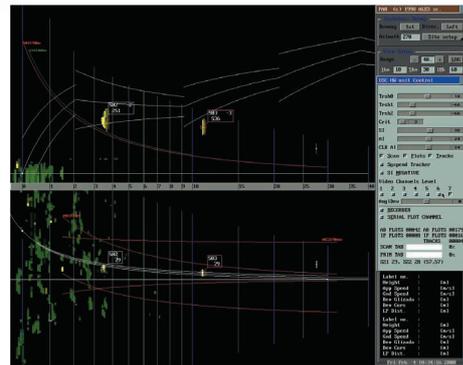
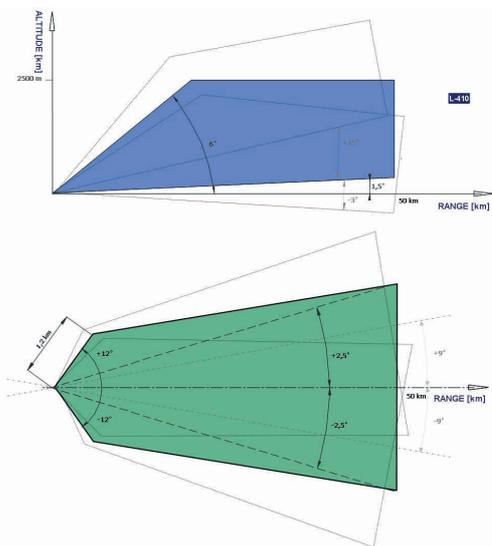
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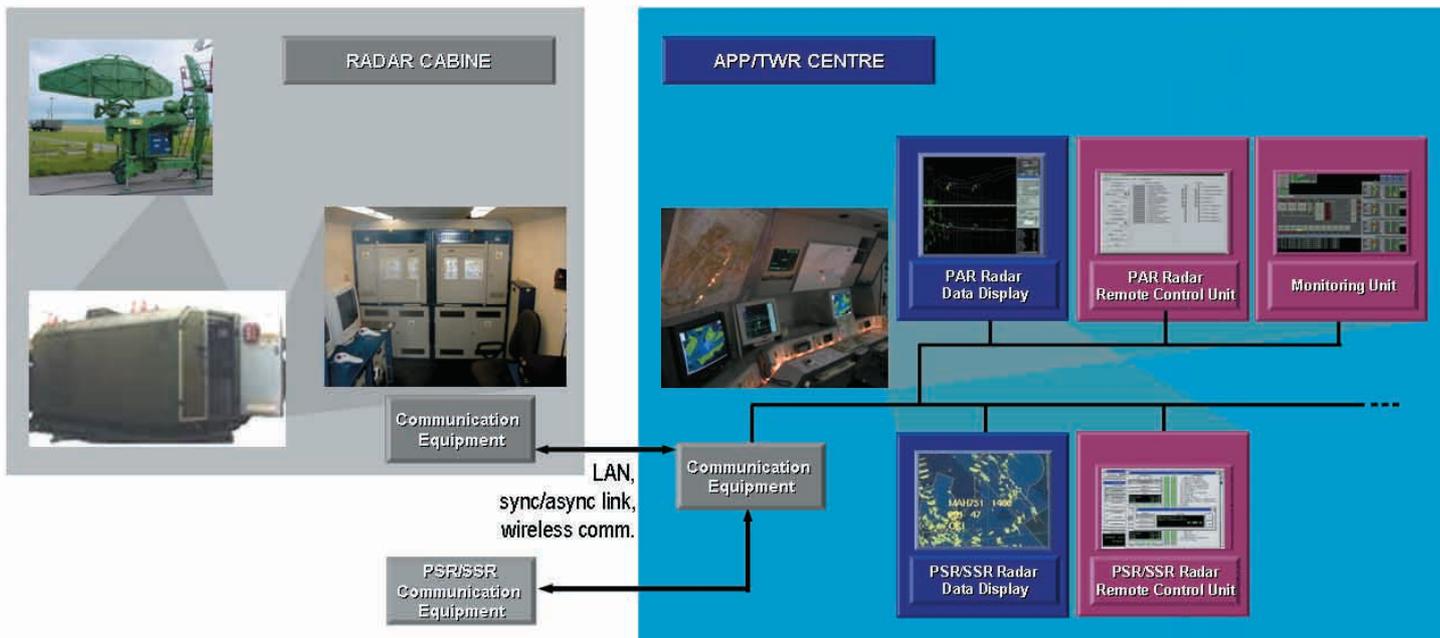
Basic features of RDD/PAR display:

- Synthetic raw video display
- Status, diagnostic a control data display
- Plot-to-track processing
- Track correlation
- Track conflict alert capability

Coverage diagram



Typical configuration



References

Development of MORAD-P was completed in 2001.

