RAVIS® MAINTENANCE AND CONTROL SOFTWARE

Ravis® is the most advanced program for weather radar supervision available on the market today. The software is an ideal tool set for field engineers and service personnel providing users with a comfortable graphical environment that fully supports configuration, alignment, control, diagnostics and radar data display. Ravis® supervises the radar systems or the individual units connected to the customer's network in real-time and from any location.

Ravis® is highly flexible and due to its use of the Java™ platform can be installed on a wide range of operating systems. The software automatically detects the type of weather radar connected, its configuration and the options available. The program menu adapts accordingly. Ravis® is an ideal solution for heterogeneous radar networks that integrate different types of weather radars. Ravis® is powerful and highly flexible. It handles the large number of online status indicators produced by modern high-end weather radars and can be easily customized to suit individual radar network architectures or individual add-on components such as UPS or fire alarm systems.

DESIGN PRINCIPLES

Ravis® is built on LEONARDO Germany's RCL (Radar Control Language) and communication backbone NGS, which supports interaction within a TCP/IP based multi-sensor intranet.

The RCL/NGS backbone enables parallel Ravis® online connections. As a result, radar data can be viewed within the intranet or at any remote site.
Ravis® can either connect directly to the radar or through the NGS network. The NGS serves as a proxy in this case, therefore multiple Ravis® applications can connect to a single data stream coming from a remote radar site. This ensures the most efficient use of limited bandwidth capacities.

KEY FEATURES

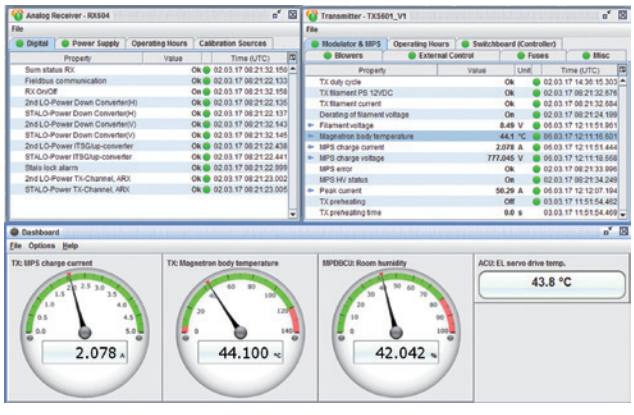
- Platform independent Java™ application
- System-auto-detect feature: During logon, Ravis® analyzes the connected radar type and adapts its views and controls accordingly
- Hierarchal visualization of radar sub systems and interconnections
- Real-time radar data displays scalable up to 256 color levels
- Data zooming and panning
- Guided radar calibrations
- Data/status snapshot and sequence record/replay
- Context sensitive Online-Help

LEONARDO

RAVIS OFFERS THE FOLLOWING BASIC FUNCTIONS:

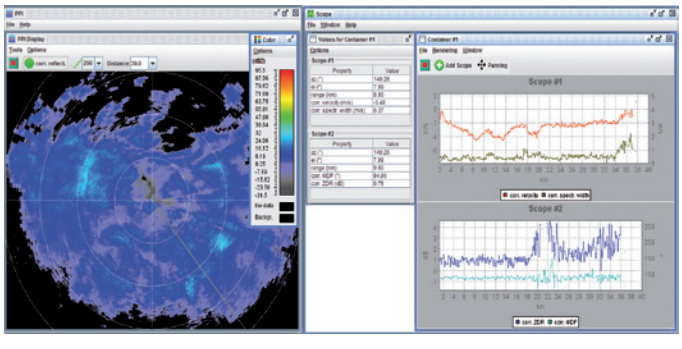
SYSTEM SUPERVISION

- Schematic visualization of radar subsystems and inter connections
- Hierarchical structured color coded visualization of radar status and health condition
- Maintenance level depending BiTE presentation covering typically more than 1500 different radar status indications
- User configurable dashboard summarizing important radar BiTE information
- In-place short-term time series of selected BiTE data
- Long-term time series and comparison of BiTE data



RADAR DATA SUPERVISON

- Presentation style: PPI, RHI, A-SCOPE, B-SCOPE
- Output data: UZ, CZ, V, W, ZDR, ϕDP, KDP, ρHV, LDR
- Intermediate data: I, Q, LOG, CSR, SQI, Spectrum Power/Phase, TX plot, TX power, TX phase, TX power spectrum
- Data zooming and panning

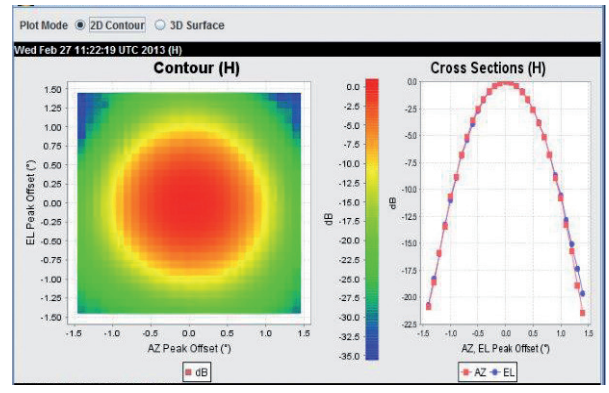


ANTENNA CONTROL

- Velocity and position control via sliders and quick step fields

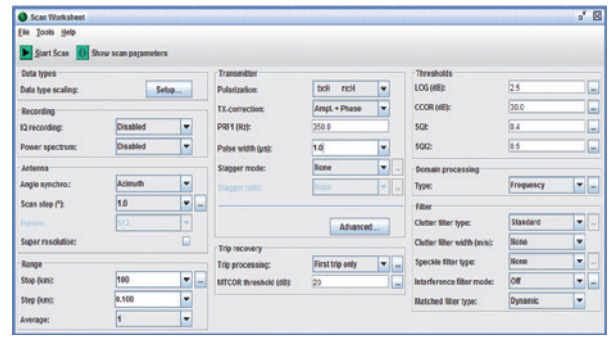
SOLAR RASTER SCAN FEATURE

- Antenna north alignment and elevation levelling
- System gain offset using solar flux
- ZDR offset of receive chain
- Antenna beam width measurement



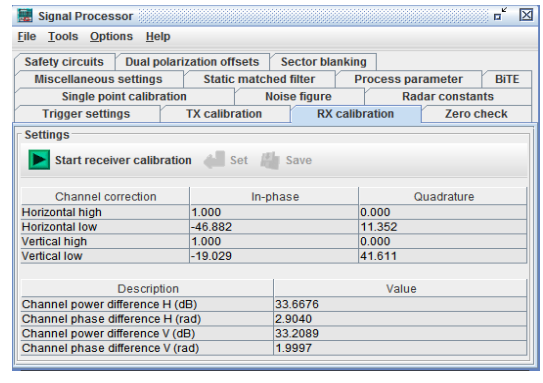
SCAN WORKSHEET

- Cross-checking of all scan relevant parameters
- Visualization of current scan parameters



GDRX® DIGITAL RECEIVER & SIGNAL PROCESSOR STATUS CONTROL AND CALIBRATION

- Manages more than 600 different digital receiver and signal processor parameters
- One-click calibration for noise level detection, single



RADAR STATUS RECORDER

- Record radar status in real-time for maintenance and educational purpose

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