

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 realtime and from any location.

Ravis® is highly flexible and due to its use of Java™ it can be installed on all common computer platforms. The software automatically detects the type of weather radar connected, its configuration and the options available. The program menu adapts accordingly. This 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 based on SELEX-Gematronik's communication backbone RCL (Radar Control Language) and NGS (News Group Server), which supports interaction within a multi-sensor intranet (TCP/IP). 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® features full multi-user and multi-radar capabilities. Ravis® can either connect directly to a radar TCP/IP port or through the NGS network middleware. 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
- User configurable desktop environment (Multiple Document Interface Design)
- Context sensitive Online-Help
- System-auto-detect feature: During logon, Ravis analyzes the connected radar type and adapts its views and controls accordingly
- Image resolution scalable up to ATC display 2K x 2K
- Realtime radar data display scalable up to 256 color levels
- Data zooming
- Geographical overlays
- Screenshot-utility

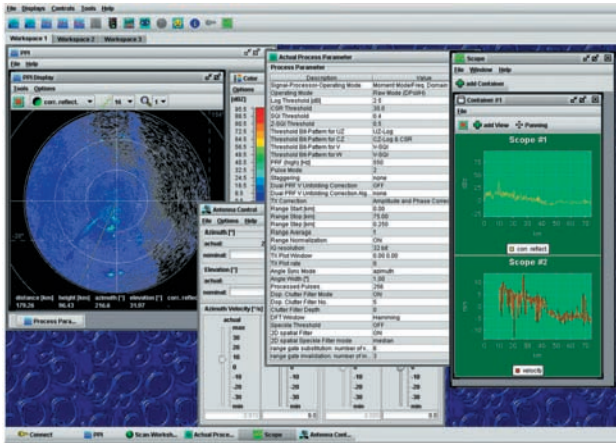
Ravis offers the following basic functions:

SYSTEM SUPERVISION

- Manages up to 500 different radar parameters
- Quick graphical overview of the status of the radar units
- Detail zoom capability for each submodule
- Presentation of BITE (Built-In Test Equipment) Information
- Radar messages with color-coded warning level
- Classification and classification filter
- Search feature for messages and dates
- Storage and reload of reports (XML)

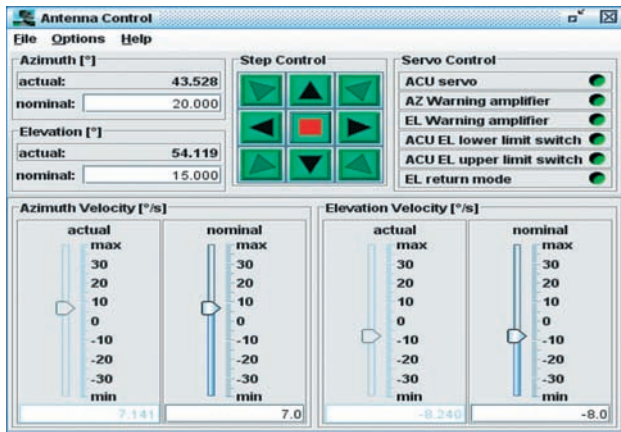
RADAR DATA SUPERVISION

- Presentation style: PPI, RHI, A-SCOPE, B-SCOPE
- Output data: UZ, CZ, V, W (with DP option: ZDR, ϕ_{DP} , K_{DP} , ρ_{HV} , LDR)
- Intermediate data: I, Q, LOG, CSR, SQI, Spectrum Power/Phase over range, TX plot, TX power, TX phase, TX power spectrum
- Overlays: geographical maps
- Data zooming and panning



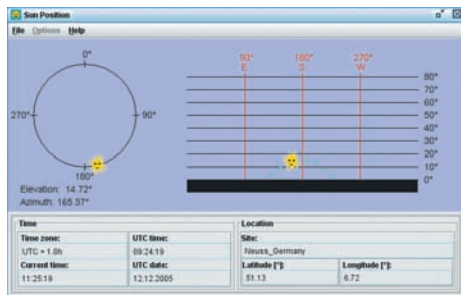
ANTENNA CONTROL

- Velocity and position control via sliders and quick step fields



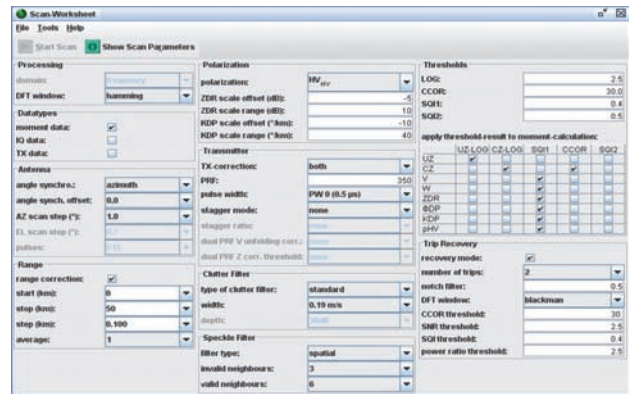
SUN POSITION FEATURE

- Antenna north alignment and elevation levelling
- Intensity calculation using solar flux



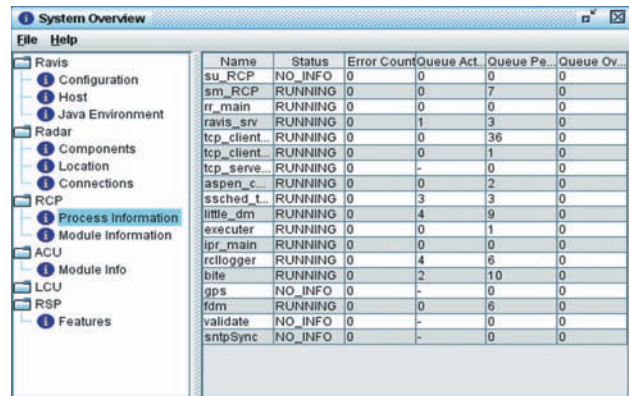
SCAN WORK SHEET

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



SYSTEM INFORMATION FEATURE

- Detailed overview of radar subsystem settings
- Overview of software releases for each processor
- Complete information report (File and printout)



GDRX® DIGITAL RECEIVER & SIGNAL PROCESSOR STATUS CONTROL AND CALIBRATION

- Manages more than 120 different digital receiver and signal processor parameters
- One-click calibration for noise level detection, single point and TX calibration

