SOFTWARE

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SOFTWARE

CAD Software

WSCAD is an advanced computer aided design package for electronic and electrical design.
This versatile electrical engineering cad package is ideal for all types of electrical engineering design, planning and project control involving electronics, electrical and commercial electric service design.
WSCAD is modular structure, there fore you are able to start with basic - version and, at a later time, expand it to a higher-version (Compact or Professional) with more feature. Drawings that have been made with lower version are fully compatible with higher versions.

The three software modules of WSCAD are built upon each other containing a tried and tested range of functions.

- The **Basic version** is particularly suitable for commissioning, when the planning itself was already completed and no more major alterations
  are anticipated. It is equally well suited to the creation of smaller and less extensive projects.
- The **Compact version** is often found in the maintenance department. The strength of the Compact version is in the adaptable circuit design, such as when an installation or machine already exists and needs modifications. In addition, this version is especially suitable for the creation of diagrams for small to medium-sized projects. Various automatic functions are available, such as cross-referencing, terminal charts, numbering and contact mirroring.
- The **Professional version** is used in the planning, development and documentation of new projects. Here the user has at his disposal an extensive range of powerful online and monitoring functions which are indispensable in the creation of new projects. Errors are eliminated from the beginning and productivity is increased.

It does not matter with which version you will start with. There are no restrictions on upgrading from lower module to a higher one.
Single-user licences or network licenses with common access to project data, database and libraries, or combinations of these, offer a system-oriented method of working.

- Floor plan editor.
- Complete project management.
- Export & import DXF & DWG files.
- Clients can use a WSCAD viewer to view drawings(free).
- Customizable drawing frames.
- Material list
- Project Data
- Summary
- Revision History
- Cable List
- Wiring Chart
- Installation Plan
- Basic Drawing
- Reference List
- Cable Chart
- Connector Chart
- Terminal Chart

PCB CAD Software

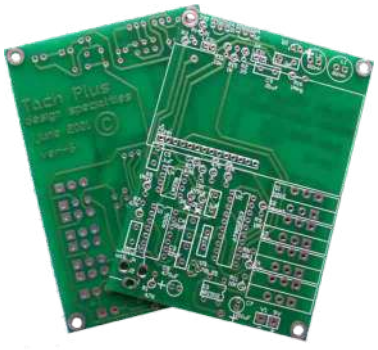
Which Ranger Do I Need?
If you decide to start off with Ranger2 or Ranger2 XL, you can always upgrade to the next Ranger for the difference in price between the two (plus post and packing). All the Ranger designs are upwards compatible.

• How much money do you have to spend?
When comparing Ranger's, you get what you pay for, so the more expensive products have more features - but you may not need them! (The entry level is Ranger2, then Ranger2 XL. Ranger XL is our top of the range product.)

• Do you require split power plane support?
If so, you would need to consider Ranger XL. (Ranger2 and Ranger2 XL support individual power planes only.)

• Do your designs use surface mounted parts occasionally or frequently?
All the Ranger products are designed to handle surface mounted parts, however we would only recommend Ranger2 where smd's are used occasionally. If your designs frequently contain smd's then Ranger2 XL and Ranger XL should be considered.

• How many rectangular pads do you use per design?
Ranger2 has a limitation of upto 16 different rectangular pads and 16 square pads per design. This can be an issue if a variety of smd's are in use on each design. Ranger2 XL has a limit of 32 pads of each shape per design whilst Ranger XL doesn't have these limits.



• Do you require an auto-router?
All the Ranger products have our own rip-up and retry auto-router and a .dsn output for input to the Electra and Specctra auto-routers. Ranger2 XL and Ranger XL have an interface to the new Elecctra auto-router. All products have an interface to the Specctra auto-router.

• How many artwork layers do you require?
The number of board layers doesn't tend to be an issue, but Ranger2 and Ranger2 XL have a maximum of 16 layers and Ranger XL has 64 layers.

• Do you require circuit schematic diagrams?
Ranger2 XL and Ranger XL have an improved schematic editor with many additional features over and above the editor supplied with Ranger2.

• How many different power rails do your designs contain?
Ranger2 has a limit of up to 8 different power rails per design, Ranger2 XL has 16 and Ranger XL has a limit of 256. Your answers should give you an idea which Ranger will suit your designs. Ranger2 XL and Ranger XL also have reduced versions (limited parts/pins, etc.) that are less expensive.

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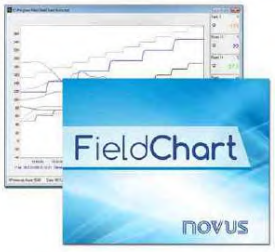
SuperView - Process Supervision Software

SuperView is a Supervisory Control and Data Acquisition software (SCADA) that brings to the user a visual development model to create applications. Besides communication with Modbus RTU and Modbus TCP devices, also is posible to use SuperView stations operating in Client or Server modes allowing distributed supervision of a process or system. The user can use different kinds of resources that simplify the configuration, bringing flexibility to take decisions when developing the synoptic. Customized access policies for users, mathematical formulas, task scheduling, logs for user actions and encrypted historic are some available resources. This system complies with technical requirements of FDA 21 CFR Part 11 and ANVISA.

- Visual development without the use of "scripts"
- Access Policies customized for each user
- Encrypted Historic with data tampering detection
- Export function to the formats XLS, PDF, RTF, XML, HTML, DBF, TXT, CSV
- Encrypted event log for user and application
- Visual objects available to create supervision forms
- Alarms supervision with visual, sound and e-mail notifications
- Report generator
- Mathematical formulas
- Task scheduler triggered by conditional or date/time
- Allows data download from NOVUS FieldLogger
- Easy configuration of Modbus communication parameters for NOVUS products
- Modbus RTU and Modbus TCP protocols
- Operations mode Client and Server: within a corporative network, it is possible to distribute the supervision among multiple computers connected to a TCP/IP network. A SuperView station can be executed as Client, Server or both modes
- Remote activation for historic, tasks and formulas with a SuperView Client
- Complies with technical requirements of FDA 21 CFR Part 11 and ANVISA

Supervisory Software FieldChart

FieldChart for Windows® supports communication and management of data collected by FieldLogger and other devices from NOVUS, such as controllers and indicators. Easy to use, no previous training is required. It transfers data to the computer, plotting on-line and recording data. It features zoom, table view, charts overlap, printing and table data export to spreadsheets or text editors. When "online" it communicates with up to 8 FieldLogger units or 64 controllers or indicators, thus making possible to monitor and plot up to 64 channels of analog variables. High and Low alarms can be assigned to each channel.



- Channel data is presented as chart and digital display
- Online monitoring of data in the Modbus network
- Up to 8 channels per chart
- Data recorder: samples of each channel are stored in disk at programmable intervals
- Stored data displayed as chart or data table
- Exports stored data in XLS and TXT formats
- 8 channels version: 1 chart display. Enables to display up to 8 channels of 1 FieldLogger or of 8 variables in different NOVUS devices
- 64 channel version: Displays up to 8 charts. Enables to display up to 8 channels of 8 FieldLoggers or of 64 variables in different NOVUS devices
- Communication protocol: Modbus RTU Master. Enables reading operations in
- NOVUS devices connected to the Modbus network
- Communication Interface; Single serial port, selectable from 1200 to 57600 bps
- FieldLogger data download: can transfer batch of data from FieldLogger memory to PC files
- Includes a menu option to start FieldLogger configurator software
- Individual supervision of alarms for each monitored variable, with visual and audible warning
- Chart handling: zoom, merge and overlap

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