

Features of WSCAD 5

CAD for Automation Technologies and CAD for Electrical Engineering

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General of WSCAD 5

WSCAD is modular structured, therefore you are able to start with the **Basic** - version and, at a later time, expand it to a higher-version (**Compact** or **Professional**) **with more features**. Drawings that have been made with a lower version are fully compatible with higher versions.

The three software modules of WSCAD 5 which are build up on 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 a lower module to a higher one. Single-user licences or network licences with common access to project data, database and libraries, or combinations of these, offer a systems-oriented method of working.

Hardware requirements

	Minimum requirements	Recommend
Operation System:	Windows 98/2000/XP	Windows 2000/XP
CPU:	800 MHz	2 GHz
RAM:	128 MB	512 MB
Harddisk	200 MB	500 MB
Graphics Card:	32 MB	128 MB

Features of WSCAD 5.0

General	Basic	Compact	Professional
- Schematic			
Drawing pages	10000	10000	>10000
Sub pages	✓	✓	✓
New design	✓	✓	✓
Project management with file preview and sorting functions	✓	✓	✓
Project import/export	✓	✓	✓
Unit/Field designation; Unit/Field region	-	-	✓
Path text	✓	✓	✓
Black Box	-	✓	✓
Destination wiring	✓	✓	✓
Material browser	-	-	✓
Text find/replace	-	✓	✓
User configuration of drawing frames and lists (layout)	-	-	✓
Foreign language display/translation	✓ / -	✓ / -	✓ / ✓
Dimensions	✓	✓	✓
Project manager with individual listings. Project-specific information is automatically copied into the drawing frame	-	✓	✓
Printout labels of equipment, cables and terminals	-	✓	✓
Drawing functions	Basic	Compact	Professional
- Schematic			
Choice of standards: Facility to work with old standard JEC 40719 or new JEC 61346 standard	✓	✓	✓
Symbol explorer with preview when loading a symbol, including symbol search and favourites	✓	✓	✓
Symbol editor for drawing own schematic symbols	✓	✓	✓
Terminal browser functions	-	✓	✓
Drawing plug + socket separately	✓	✓	✓
Drawing plug + socket together	-	✓	✓
- Floor plan			
Symbol libraries of all areas for electrical installation	✓	✓	✓
Symbol editor for drawing own electrical installation	✓	✓	✓
Drawing functions for floor plans	✓	✓	✓
Drawing format DIN and free format until 30mx30m	✓	✓	✓
Scale 1:1 until 1:1000	✓	✓	✓
Birds eye illustrates position of zoom windows	✓	✓	✓
Clearly arranged floor management with installation zones	✓	✓	✓
Print preview	✓	✓	✓
Snap functions	✓	✓	✓

Automatic functions	Basic	Compact	Professional
- Schematic			
Symbol numbering	-	✓	✓
Generating cross references with designation wiring	-	✓	✓
Generating cross references with designation wiring/online	-	-	✓
Automatic generation of line names in various formats	-	-	✓
Control cabinet - manually	✓	✓	✓
Control cabinet - semi automatic	-	-	✓
Terminal browser for locating and modifying terminals, single terminal, multi level terminal, jumper	-	✓	✓
Online cable manager & connector manager	-	-	✓
Coil cross reference/ generate reflector	-	✓	✓
Coil cross reference & contact manager online	-	-	✓
Generate PLC cross references	-	✓	✓
PLC cross references and PLC manager online	-	-	✓
Ability to globally replace drawing frames	-	✓	✓
Automated listings/charts	Basic	Compact	Professional
- Schematic			
Separate listings (terminal chart, material list, ...)	-	✓	✓
Automated listing for all lists	-	-	✓
Project data	-	✓	✓
Summary	-	✓	✓
Revision history	-	-	✓
Terminal Chart	-	✓	✓
Connector chart	-	-	✓
Cable list	-	-	✓
Cable chart	-	-	✓
Wiring chart	-	-	✓
Reference list	-	-	✓
Material list	-	✓	✓
Interfaces	Basic	Compact	Professional
- Schematic			
DXF/HPGL Export	✓	✓	✓
DXF/HPGL Import	-	✓	✓
VNS Export	-	-	✓
ASCII, ACCESS, Excel, dBase, Import/Export (Data)	-	-	✓
Import of parts data via ECAD standard component interface	-	-	✓
UGL/UGS Export	-	-	✓
Import of ASCII-, Excel- und Datanorm 4.0 - files	-	-	✓
Material list output as ACCESS, dBase, ASCII or Excel	-	-	✓
Label-Export to Grafoplast, Phoenix, Murrplastik, Excel or ACCESS	-	✓	✓
Import/Export of SEQ list for PLC module as Excel, SEQ-txt-format	-	-	✓
- Floor plan			
DXF Import preserving layers	✓	✓	✓

New functions of WSCAD 5.0	Basic	Compact	Professional
- Schematic			
New program design, with individual configurations	✓	✓	✓
Sheet – sub pages with 2 levels	✓	✓	✓
Sheets from 0 to 9999	✓	✓	✓
Numbering with new functions complete revised	-	✓	✓
Lock reference names for numbering	-	✓	✓
Lock single Terminals for numbering	-	✓	✓
More project information in CPP – projects	-	-	✓
Make your own symbol favourites	✓	✓	✓
Adjust control cabinet manager with connectors	-	-	✓
Import more DXF drawing in on step	-	✓	✓
Short cuts for automatic functions	-	✓	✓
Reference list	-	-	✓
Take over individual customer data	-	✓	✓
Import database with filters	-	-	✓
Import data from Datanorm files into the catalogues manager	-	-	✓
Symbol manager for easy symbol management	✓	✓	✓
More functions in lexicon	-	-	✓
Contact comb preview in contact manager	-	-	✓
Translate symbol text	-	-	✓
Display locked symbols for material list	✓	✓	✓
Display locked symbols for reference numbering	✓	✓	✓
Display locked symbols for numbering terminals	✓	✓	✓
- Floor plan			
Drawing installation plan and floor plans	✓	✓	✓
DXF Import with taking over all layers	✓	✓	✓
Birds eye illustrates position of zoom windows	✓	✓	✓
Dimensions 1:1 until 1:1000	✓	✓	✓
Drawing format DIN and free format until 30mx30m	✓	✓	✓
Symbol libraries of all areas for electrical installation	✓	✓	✓
Clearly arranged floor management with installation zones	✓	✓	✓
Layer management	✓	✓	✓
Direct access of layer and layer properties (visible/invisible, locked, colour)	✓	✓	✓
TrueType-font for high quality print out	✓	✓	✓
Print preview	✓	✓	✓
Bmp, Jpg, Tiff, Gif, Wmf or Pcx import	✓	✓	✓
Scale and und adapt of floor plans	✓	✓	✓
Snap functions	✓	✓	✓
Automatic close /open of walls when inserting or deleting windows or doors	✓	✓	✓
Moving of windows and doors	✓	✓	✓
Dimension	✓	✓	✓