

DIAView SCADA System Overview

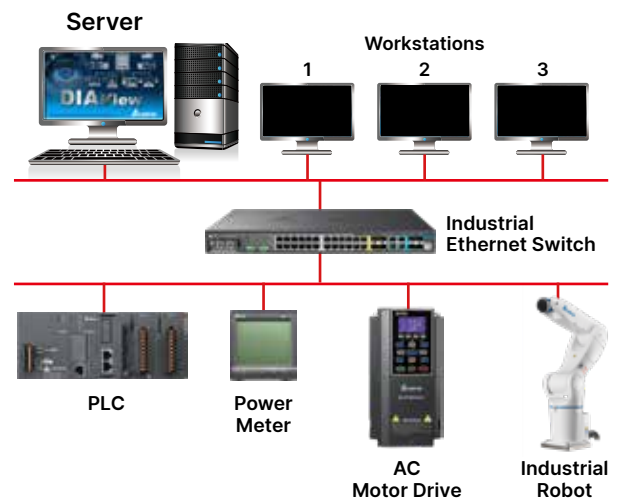
Stand-alone

- ▶ Integrated with a host controller for data acquisition from each machine and real-time monitoring
- ▶ Manages advanced equipment if integrated with an industrial touch Panel PC



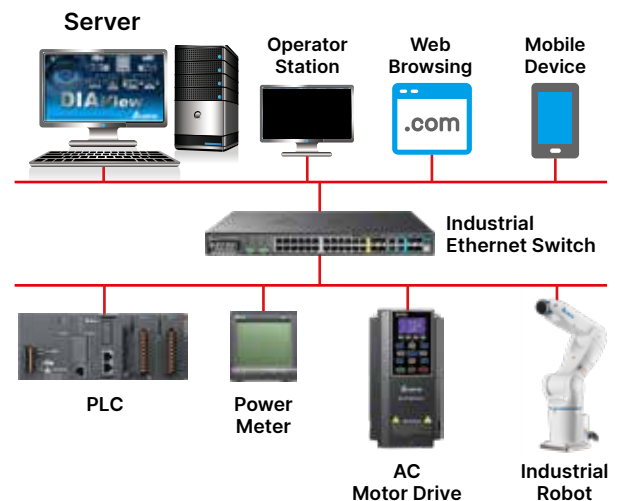
Client / Server (C/S)

- ▶ Collects data from various equipment for analysis
- ▶ Provides real-time monitoring to users via TCP/IP protocol



Web Browser / Server (B/S)

- ▶ Collects and processes data from various equipment for analysis and direct display with built-in web server (no need to install IIS)
- ▶ SVG images compatible with mainstream browsers such as IE, Chrome, Safari, Firefox and more; no need for plugins
- ▶ Supports hybrid access networks for multi-platform monitoring and data visualization



Communication Protocols

- ▶ More than 20 drivers support mainstream controllers (PLCs)
- ▶ Batch adds device addresses and imports/exports Excel files for editing
- ▶ Operations based on linear, square root, and Boolean computing
- ▶ Automatic recovery from connection failure for fast and accurate data acquisition
- ▶ Simple, flexible and highly efficient parameter configuration for network connection; online verification of equipment connection status
- ▶ New release OPC UA server & Web API option module

Brand	Driver Supported Controllers / Devices
Delta	CODESYS Controllers AX Series
	Compact Modular Mid-range PLCs AS Series
	Hot Swappable Mid-range PLCs AH Series
	Standard PLCs DVP-E Series
	Equipment IoT Platform DIALink
	Power Meters DPM Series
Siemens	S7-1500 TCP
	S7-1200 TCP
	S7-200 TCP / PPI / Smart TCP
	S7-300 TCP / MPI
Rockwell	ControlLogix Ethernet
Omron	FINS TCP
	FINS ASCII
	HostLink ASCII
Mitsubishi	FX Series
	Q Series
	iQ-R Ethernet
Yaskawa	MP3000 TCP/UDP
Keyence	SR2000 TCP/COM Barcode reader

Communication	Protocols
Modbus	Modbus TCP
	Modbus serial RTU
	Modbus serial ASCII
OPC	OPC UA
Simulator	Simulator

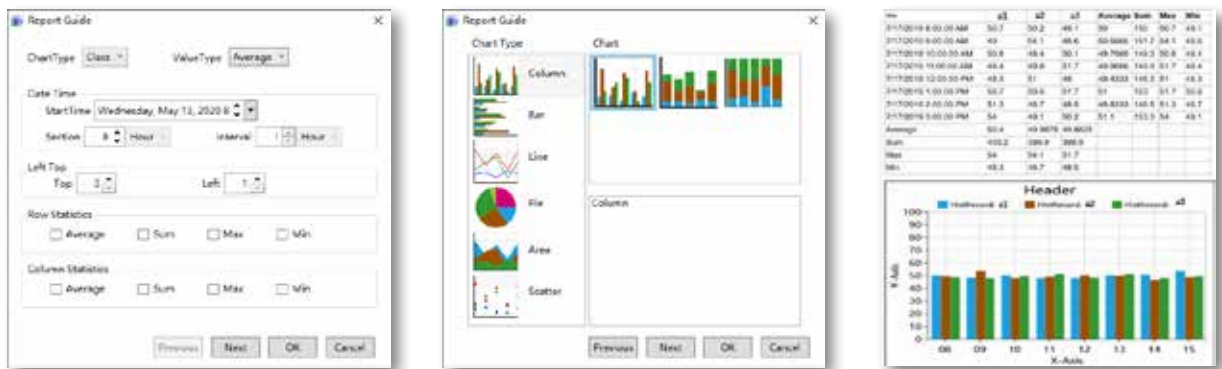


Features

Smart Report Wizard

Intuitive operation interface, multiple data sources, graphs and charts preview and more functions are provided for easy operation. It only takes four steps for users to complete the configuration, effectively saving time for report generation.

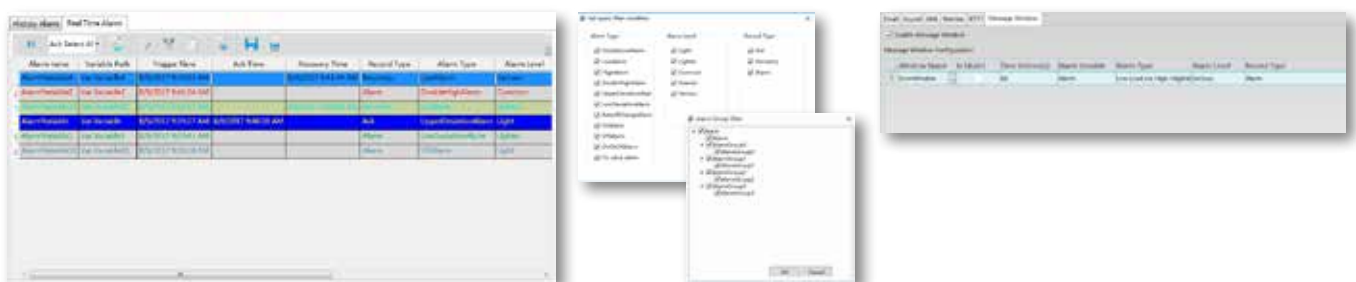
- ▶ Reports: Shift, daily, weekly, monthly, quarterly, and annual reports
- ▶ Values: Instant, average, maximum, minimum, and original values
- ▶ Statistics: Row statistics and column statistics
- ▶ Charts: bar charts, curve charts, pie charts and more



Alarm Management Tools

Displays alarm records, related variables, trigger/response/recovery time, record formats, alarm types and levels and more, as well as to filter, inquire (by groups), display, archive, print alarm data, and export as Excel files.

- ▶ History alarm inquiry and real-time alarm download; data can be displayed in different pages
- ▶ Filtering by alarm types, alarm levels, record formats, and variable groups; supports script to inquire the specified alarm content (by columns)
- ▶ User-defined background colors for real-time alarm texts, regular alarms, responses and recovered items
- ▶ Added a new alarm message window. When an alarm occurs, a window automatically pops up for notification

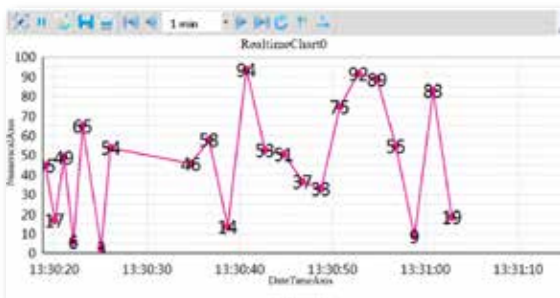


Data Display

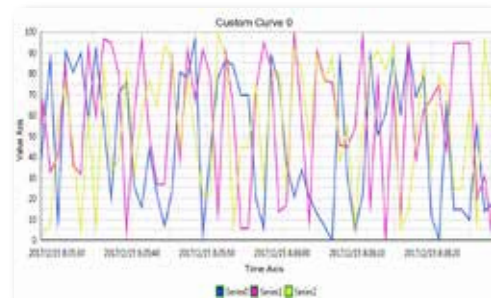
Various data archives and display for real-time management, including:

- ▶ Real-time/historical data statistics, analysis, and display: XY curves, pie charts (2D/3D), bar charts and more
- ▶ Curve charts: smooth zoom in/out, fixed horizontal and vertical axes, multi-axis display, segment display, settings, printing, saving, import and export functions
- ▶ Multiple types of curves: polylines, dotted curves, smooth curves, stair-step curves, and more
- ▶ Numerical statistics of historical data: average values, max./min. values, sums, number of values, current values and more

Real-time Chart



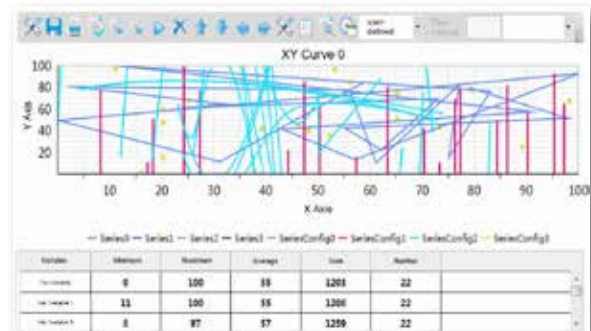
User-defined Chart



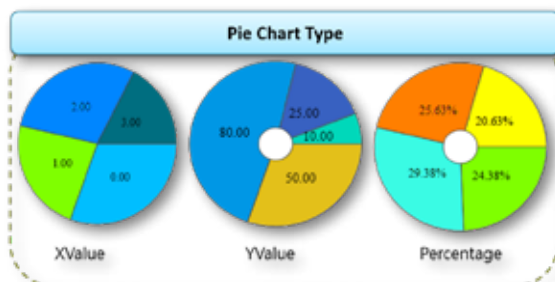
History



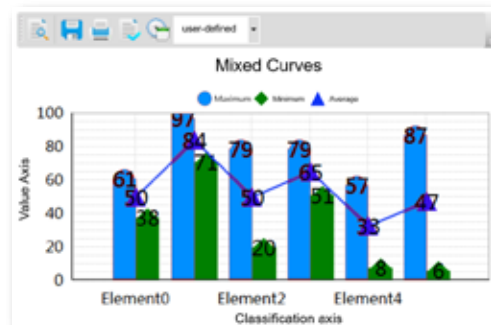
XY Curves



Pie Chart



Bar Chart

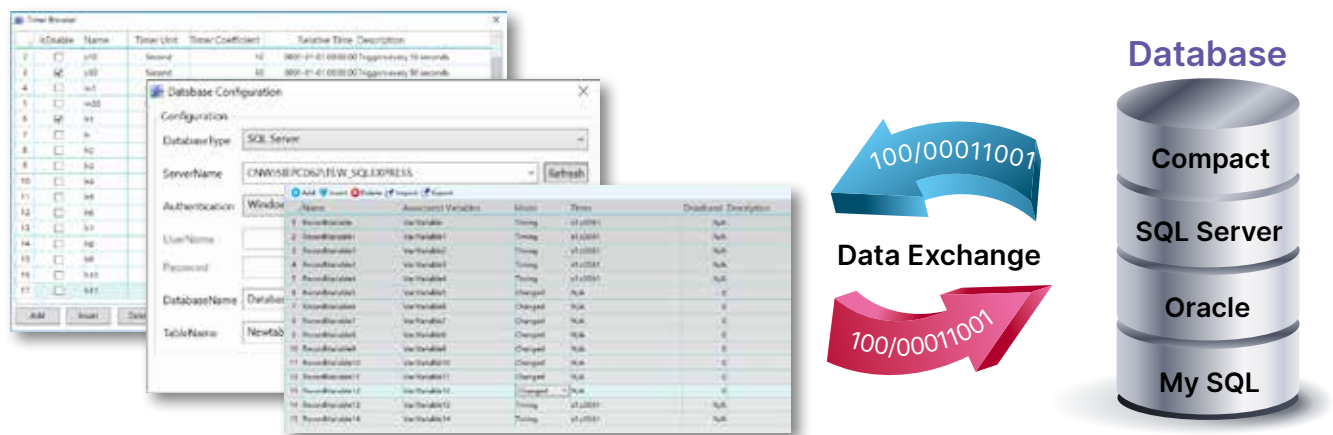


Features

History Logs and Database

History logs include variables and log groups, and the database facilitates data browsing, inquiry making and editing, and allows users to select different sources of data for cross check.

- ▶ Basic operations: to insert /modify /inquiry data, and to create /delete tables
- ▶ Supports SQL Server Compact, SQL Server, Oracle, MySQL database
- ▶ Interconnection of the database and the production data in third-parties' software



Recipe Management

Recipes are sets of parameter settings indicating the proportion of different materials for production. Users are able to define and manage recipes for different products and production processes.

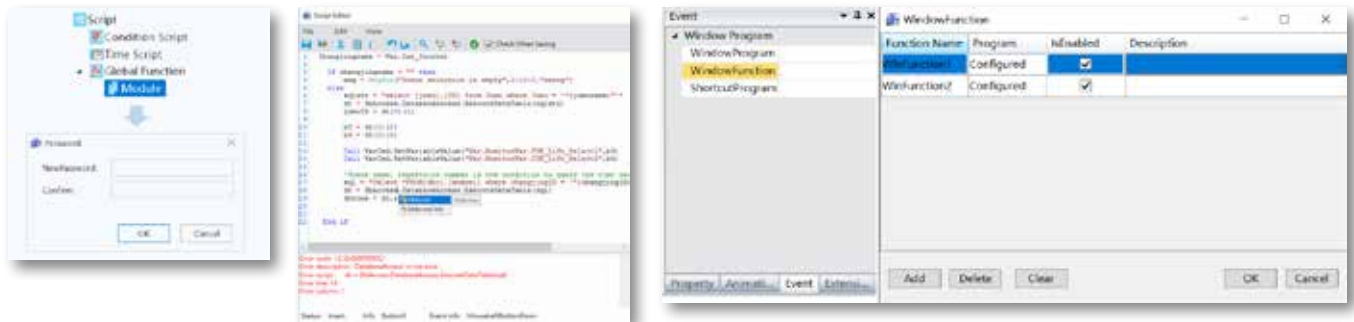
- ▶ Quick configuration and maintenance of recipe items in the variable browser
- ▶ Easy to add, insert, and delete recipe items, and import/export recipe parameters
- ▶ Allows recipe item/parameter modification, sequence adjustment, import/export, saving, and printing during equipment operation
- ▶ Displays recipe names, number of items, ingredients and units
- ▶ Supports VBScript



VBScript

Supports VBScript, a power script editor with abundant coding objects and commands, to customize functions as follows:

- ▶ Encryption for user-defined global functions and scripts
- ▶ Condition program, time program and screen program are isolated from the main execution of user interface and will not delay UI
- ▶ Condition program and time program are executed as two default groups in parallel
- ▶ Powerful script editing: VBScript, Chinese code, read/write protection, smart prompts, syntax highlighting, error location and other functions
- ▶ Window-function for users to call



User Authority Management

The standard authority management provides access security settings and section management. It effectively enhances system security by data categorization and isolation, operation, and responsibility levels while reducing human errors.

- ▶ Standard authority levels: system manager, manager, and operator
- ▶ FDA approval
- ▶ New face recognition function
- ▶ Automatic logout after a defined period of inactivity
- ▶ Sets a limit for consecutive incorrect password attempts



Features

Multiple Languages

Multi-language interface for users in different countries and regions around the world and avoids repetitive program development.

- ▶ Allows language switch during project execution
- ▶ Language switch for texts, pictures, GIF files, and sounds
- ▶ Import, export, delete, inquire and filter functions
- ▶ Localizes developed projects with multiple languages
- ▶ Same functions for different languages



Data Dictionary

The data dictionary is a collection of variables of a project, and variables are grouped for easy management. The interchange of all sorts of data and variables presents the production status of a project and enables efficient control and management.

- ▶ Allows to add/batch add, delete, copy, paste, rename, import, export and edit variable groups
- ▶ Smart data interchange, reference browsing, usage statistics, default error value presetting, and error detection
- ▶ Variables grouping, sorting, ordering and handling
- ▶ Variables management with tree structure
- ▶ Variables expansion for grouping

