

# ADAMView

## ADAM Data Acquisition Software



### Features

- Plug-and-Play Connect with ADAM I/O series
- Drag and drop, graphical panel design
- Intuitive data flow programming
- OPC support to connect devices
- Powerful Basic Script programming to customize application needs



### Introduction

We noticed that many users applied the ADAM Data Acquisition modules in small base projects. Because the cost ran higher than system hardware, Human Machine Interface software were never suitable for these projects. ADAMView, the ADAM Data Acquisition software, is especially designed for low-volume ADAM projects. It provides 150 physical points database, ADAM Drivers, and OPC Server for all monitoring and control function. In brief, ADAMView is cost-effective and simple SCADA software for ADAM I/O series.

### Specifications

#### System Requirements

- IBM compatible PC (200 MHz Pentium® or higher)
- 64 MB RAM
- Windows 98/NT/2000/XP
- 20 MB hard disk space (minimum)
- CD-ROM drive for installation
- Mouse for development
- 150 I/O tags supported

### Ordering Information

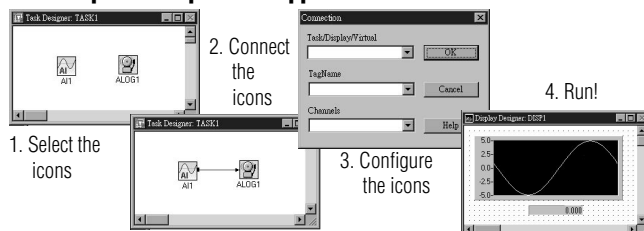
- PCLS-ADAMVIEW32 HMI Software for ADAM I/O Product

### Feature Details

#### Graphical Panel Configuration

Advantech ADAMView provides a wide variety of graphical wizards, allowing users to quickly create an intuitive user interface. The built-in display objects include bar graph, button, indicator, real-time trending, historical trending, knob, gauge, slider, imported bitmap, numeric display and control. In addition to built-in display objects, Advantech ADAMView features drawing tools to customize and create vivid user interfaces.

#### Four Steps to Complete an Application



#### Intuitive Data Flow Programming

Advantech ADAMView uses a data flow programming model to describe your task and control strategy. You intuitively construct and connect the function block icons to build your system. In addition, Advantech ADAMView features block sequence arrangement functions that determine the order of execution of blocks in a task. Users can change the execution order of the blocks according to the needs of the system.

#### OPC For Connecting and Integrating System

You may already have some devices other than Advantech ADAM modules in your plant or system. Advantech ADAMView leverages the industry OPC standard to provide the plug-and-play connectivity with your devices such as programmable logic controllers (PLCs). Most of major PLC vendors provide the OPC servers for their hardware. With OPC, you can easily create a human-machine interface (HMI) application that encompasses all your equipment, not just Advantech devices.

#### TCP/IP Networking for Easy Remote Access

Advantech ADAMView networking capability allows a computer in the control room to display data being collected by computers on the factory floor, or vice versa. This means that data and field process can be viewed or monitored in real time from anywhere on your network. Data Acquisition software implements a network system that supports peer-to-peer communication using TCP/IP protocol. It allows network status to be logged and viewed, for complete network monitoring and maintenance.

#### Peer-to-peer Networking for Remote Access

Advantech ADAMView networking capability allows a computer in the control room to display data being collected by computers on the factory floor, or vice versa. This means that data and field process can be viewed or monitored in real time from anywhere on your network. Advantech ADAMView implements a network system that supports peer-to-peer communication using TCP/IP protocol. It allows network status to be logged and viewed for network monitoring and maintenance.

Esis Pty Ltd www.esis.com.au

## Feature Details Cont.

### Powerful Basic Script Language to Customize Your Needs

Advantech ADAMView is easy to use, but does not sacrifice flexibility. It fully integrates BasisScript language in its kernel to meet your specific needs. Over 600 commands are available to perform almost any function you can imagine, including calculations, reading and writing files, DDE, and ODBC. It allows you to access and share data with other applications, such as Microsoft Access and Microsoft Excel. With BasisScript scripting language, it allows you to reuse existing codes and build your applications faster and easier.

### Graphics Toolbox

Advantech ADAMView's graphic toolbox provides an object-based development environment that allows you to create your operator display panel intuitively. You can create a panel that is similar to industrial process displays or test equipment. You can also attach a bitmap background to customize your display. The operator display allows you to monitor, supervise, and control your process during runtime. When complete, the panel can resemble indicators, numeric display, bar graphics, imported bitmaps, messages, analog meters, fixed texts, real-time trends, XY graphs and group boxes. Control objects include binary buttons, conditional buttons, menu buttons, numeric input, knobs and sliders. These objects can be controlled using a mouse or a keyboard. In addition, Advantech Data Acquisition software also provides graphic tools to draw rectangles, circles, segments, and polygons. These objects or cells can be linked to a tag value. They can change color according to the tag value. They can also be grouped together to make a single object. You can use them to draw pumps, valves or other industrial symbols. Advantech ADAMView also provide historical trending display that allows you to scroll backward/forward, go to a specific time, search a specific value, and convert historical data to a text file.

### Open Architecture for Integrating Other Applications

Company-wide access to your process data is essential in today's competitive business environment. Advantech ADAMView builds in an open real-time data center. Using DDE or OLE automation, you can easily integrate your application with other applications. For database connectivity, there are embedded ODBC functions for SQL access to a wide range of databases.

### Plug-and-Play Connectivity Through OPC Industry Standard

Unlike Dynamic Data Exchange (DDE), OPC is specifically designed for process control. OPC eliminates many of the limitations inherent in DDE, such as performance and data type. Advantech ADAMView also provides MODbus OPC servers for devices that support MODbus protocol, such as Advantech's ADAM-5511. Through the OPC interface, Advantech ADAMView can access ADAM-5511 real-time data. The list of devices and networks that are supported by OPC drivers is long and growing. Refer to the OPC Foundation website for the latest information: [www.opcfoundation.org](http://www.opcfoundation.org)

## Panel Configuration

- Graphic Wizard
- Analog meter display
- Bar display
- Conditional bitmap display
- Conditional text display
- Group box display
- Numeric display
- Indicator display
- Text string display
- Real-time trend graph
- XY graph

- Rectangle drawing display
- Rounded rectangle drawing display
- Oval drawing display
- Polygon drawing display
- Line drawing display
- Button control
- Condition button control
- Knob control
- Numeric control
- Slider control
- Historical Trending
- Scroll back/forward
- Go to date/time
- Convert to text file

## Task Configuration

- Software Function Wizard
- Moving average
- Event counter
- On/Off control
- PID control
- Addition, subtraction, multiplication, division
- File I/O
- Ramp
- Timer
- Time stamp
- Conditional wave file
- Speaker
- Data Acquisition
- Analog input
- Analog output
- Digital input
- Digital output
- Hardware event/frequency/pulse
- Temperature measurement
- Hardware alarm
- RS-232
- OPC client
- Alarming
- Alarm logging
- Alarm printing
- Alarm viewing window
- TCP/IP Networking
- Password Security
- Connectivity Support
- OLE automation/ODBC/DDE

1  
IPPC & AWS

2  
TPC

3  
FPM

4  
ATM

5  
DA&C

6  
ePCI

7  
ADAM-3000

8  
eConnectivity

9  
ICOM

10  
Software

11  
UNO-2000/3000

12  
VBOX

13  
ADAM-4000

14  
ADAM-5000

15  
ADAM-6000

16  
ADAM-8000