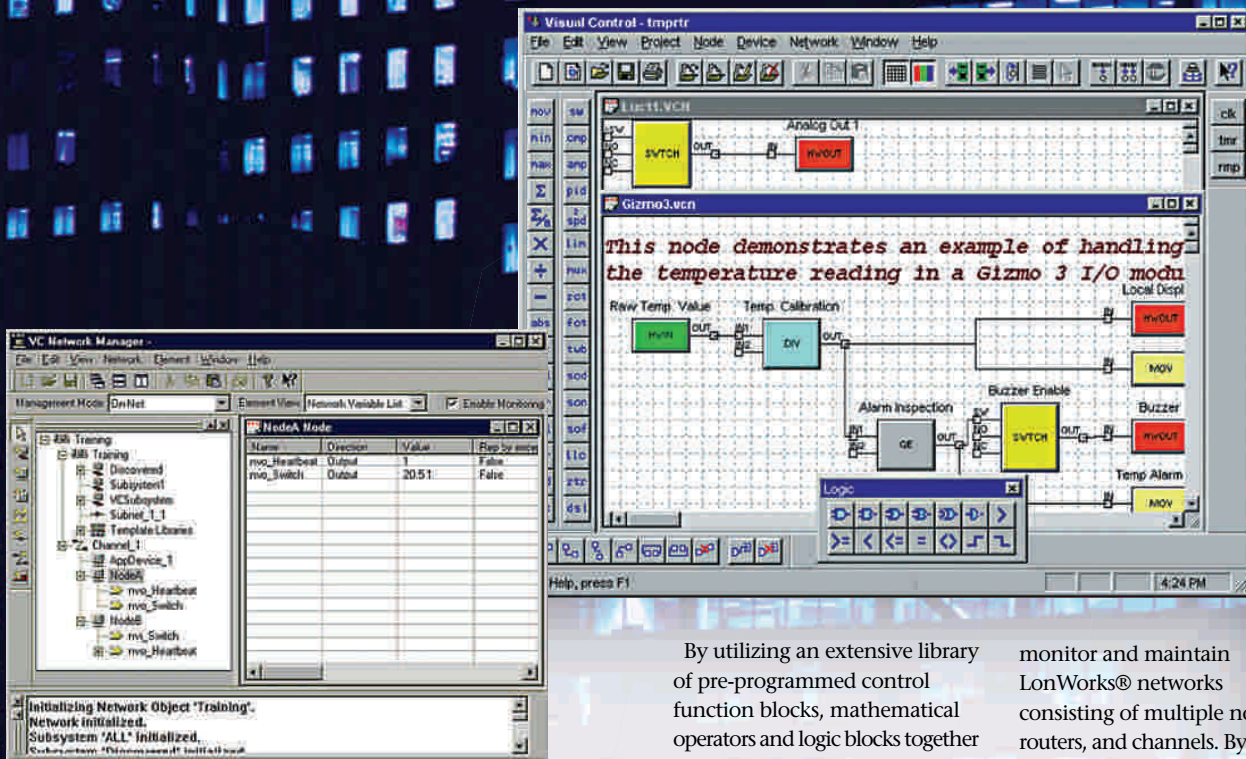




VisualControl™

Graphical Programming & Network Management Software for LonWorks®-based Building Automation System Design and Operation



Introducing the VisualControl™ Suite, powerful new Windows® 95/98/NTW2K/XP software that dramatically simplifies and speeds the process of building and managing LonWorks® networks. With VisualControl Suite, you can graphically write application programs, download them to their target nodes, install the nodes on the network and connect network variables – all without ever writing a single line of Neuron® C code!

By utilizing an extensive library of pre-programmed control function blocks, mathematical operators and logic blocks together with an innovative and intuitive “drag/drop /connect” graphical user interface (GUI), VisualControl Graphical Programming software makes short work of the most complex control strategies. VisualControl’s self-documenting, graphical representation speeds design, facilitates debugging, and simplifies modification.

VisualControl Graphical Programming generates executable files for the 16- and 32-bit LonWorks® databases, making it an effective tool that complements any network manager application.

VisualControl Network Manager software allows you to install,

monitor and maintain LonWorks® networks consisting of multiple nodes, routers, and channels. By using the innovative VisualControl “Bind Wizard,” networking nodes is accomplished with a click of your mouse. And with the Network Manager you can view your network data on line in real time.

The Network Manager is designed to work with any LonWorks® Network Services (LNS) database. When combined with VisualControl Graphical Programming, you have a complete, single-source solution to your LonWorks®-based design and management requirements.

The **VisualControl** Suite lets you program, configure, install, monitor, and control LonWorks® networks with

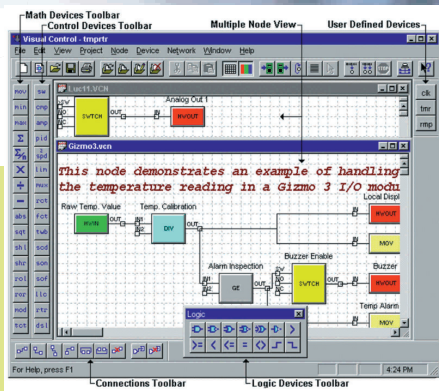
VisualControl™ Graphical Programming

Computer-Aided Software Engineering for LonWorks®

LonWorks® peer-to-peer communications has revolutionized the way building automation and other control applications are designed and programmed. But with this dramatic advancement has come the requirement for control system designers to delve deeply into the unfamiliar realm of Neuron C programming. *That is, until now.*

Designed as an ActiveX server, VisualControl puts the power of LonWorks® into your hands without the overhead of extensive and tedious software coding. Instead of writing Neuron C code to configure nodes, you simply construct a control program for a node by dragging control devices, math and logic operators from tool bars. Then, using the connections toolbar, you interconnect the operators to define the functionality of the node.

Constructing the node in this way, VisualControl generates efficient Neuron C code for the devices and strategies that have been implemented and creates an executable image for the node. A simple drag and drop of function blocks can generate hundreds of lines of consistent and debugged Neuron C code. In addition, it documents your design with an easy-to-follow graphic representation of your control strategy, which simplifies debugging and modification.



VisualControl Features

- Creates easy-to-follow and easy-to-maintain graphical control strategies
- Generates efficient Neuron C code that takes full advantage of Neuron chip resources
- Surpasses the IEC-1131-3 standard for function block programming for building automation
- Simultaneously programs multiple nodes
- Powerful editing features to cut, copy, paste, and drag multiple devices
- Multiple levels of undo and redo
- Supports all Standard Network Variable Types (SNVT)
- Supports structure-formatted data, with ability to manipulate fields
- Generates the XIF, NXE, and APB files for all nodes
- Additional devices can be created using the User Defined Device Wizard
- Extensive pre-defined device library that includes: PID, Lead Lag, Equipment Selection, Min/Max, Sequential on/off, and more

VisualControl Suite Benefits

- By reducing engineering and programming time, VisualControl gives systems integrators an advantage over their competition by implementing complex building automation systems quickly
- Provides a 30-70% reduction in control system programming
- Single-source-solution for programming and management tools for LonWorks®

simplicity.

VisualControl™ Network Manager

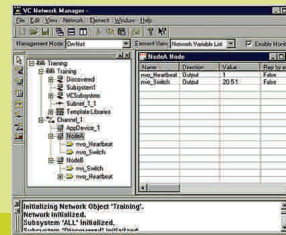
Rapid Deployment Tools for LonWorks®

The **VisualControl™ Network Manager - Standard (VCNM-STD)** is the first release in a family of network managers, which includes **Enterprise (VCNM-ENT)**, **Professional (VCNM-PRO)** and **Premium (VCNM-PRE)** versions. Each network manager has a defining feature set addressing your network management needs. The **VCNM-STD** is an intuitive interface for creating small and large LNS based networks. It provides flexibility with a multiple document interface and familiarity with a hierarchical tree view of the network. The base package includes 256 nodes.

Additional nodes can be added at the lowest prices available in the industry. The **VCNM-STD** for LonWorks® simplifies the configuration and installation of multiple Subsystems, Subnets, Nodes, Routers and Channels. Its management operations include discover, authentication, binding, moving Nodes and Routers to new Channels, splitting Channels, monitoring process values from several nodes simultaneously, On-net and Off-net configuration, drag/drop/copy methods of adding elements to the network and the users controls when Network Elements are commissioned.

Network Manager Features

- Monitor real time view of data of up to nine nodes at once
- Install and maintain networks of multiple nodes, routers, channels - subnets and subsystems
- Bind variables to multiple nodes simultaneously
- Add factory programmed nodes to the LNS database
- Create network on-net, off-net, private, shared
- Automatic Discovery of programmed nodes
- Logical & Physical tree views of Network configuration
- Graphical views and functionality*
- Backup & Recovery of network database*



Additional Features

- Utilize the Template feature to simplify repetitive tasks
- View process values from multiple nodes simultaneously
- All windows and views can be resized and moved
- LonWorks® Network Services (LNS) 32-bit Architecture
- Base package includes a 256-node license
- Designed for Windows 95/98/NT/2K/XP



*VisualControl Network Manager features available in next release



Building Automation Software
for Open Systems

VisualControl, LLC's mission is to be the premier source for LonWorks® open system software tools for the automation industry. Today, the industry demands open control networks that are distributed, easy to program and capable of peer-to-peer communication. The LonWorks® architecture provides the industry with a network of flexible, distributed programmable controllers that incorporate peer-to-peer communication. The network can be a challenge to program and manage. VisualControl, LLC has developed a group of in-house tools to support contract automation projects.

These tools are now commercially available and known industry wide as VisualControl.

Since 1993 VisualControl, LLC has been developing complete software solutions to support the LonWorks® open systems architecture. Critical to the development of the VisualControl software suite was taking full advantage of interoperability and enterprise software solutions. The VisualControl suite will be the only automation configuration, management and reporting software tool set that installers, engineers or facility managers will ever need.

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10000 St. Clair Avenue
Fairview Heights, Illinois 62208, USA
Phone: 618-394-0800
Fax: 618-394-1575
e-mail: sales@visualcontrol.com

[www. visualcontrol .com](http://www.visualcontrol.com)

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