

# GRAPHICAL USER INTERFACE FOR FACILITY MANAGEMENT

## OVERVIEW

Using EBAC's **Circon Visual Integrator** HMI software, facility owners and managers can accurately and reliably gather information from a facility, take actions that help minimize costs, save energy and improve comfort. Visual Integrator (VI) is a fully featured, web-based facility management interface to your open, interoperable DDC systems.

The intuitive and customizable graphical user interface allows you to navigate quickly through the entire system, from the high level view, to individual buildings, to detailed equipment views. You can monitor the system to verify operation, diagnose problems and respond immediately when necessary through any web browser via the Internet or local network. Setpoints and operating values are displayed in real time, and operator changes to schedules, setpoints and operating parameters are accomplished with ease.

VI expands with your facility, to other sites across town or across the country. With remote access you save the time and cost of unnecessary service calls.

Alarms are displayed the moment they are received. You know when, where and why a problem has occurred, allowing immediate corrective action long before comfort or safety is compromised.

VI's extensive historical alarm, event and trend data logging combined with comprehensive trend charting and reports packages allow you to analyze operating strategies and plan your maintenance resources.

VI works with open, interoperable LonWorks® networks meaning lifecycle savings through allowing the choice of best of breed components from Circon and other manufacturers of LonWorks technology devices.

## ORDERING INFORMATION

Part numbers:

11-4010: VI web-enabled, up to 10 LNS devices  
 11-4064: VI web-enabled, up to 64 LNS devices  
 11-4132: VI web-enabled, up to 132 LNS devices  
 11-4200: VI web-enabled, up to 200 LNS devices  
 11-4300: VI web-enabled, up to 300 LNS devices  
 11-4400: VI web-enabled, up to 400 LNS devices  
 11-4500: VI web-enabled, up to 500 LNS devices  
 11-4750: VI web-enabled, up to 750 LNS devices  
 11-4001: VI web-enabled, up to 1000 LNS devices  
 11-4000: VI web-enabled, unlimited LNS devices



## ADVANTAGES

- Web-based unlimited user access; serving facility navigation, graphical depiction of system equipment and devices, and system management functionality to any Internet browser
- Simplifies the creation of facility management HMIs using built-in fully-featured graphical design tools and libraries
- Forward and backward compatibility with all Circon building automation product
- Supports accurate and reliable analysis, troubleshooting and maintenance planning using extensive alarm, event and trend logging
- Prevents unauthorized system access with multiple level password protection
- Provides alarm history and operator audit trail reports
- Allows design and commissioning of LonWorks networks with Network Editor add-on; an economical leave behind tool for maintenance and operations
- Integrates LNS plug-ins to enable multiple vendor device configuration and management to achieve true system interoperability



## FEATURES

### INTUITIVE HUMAN-MACHINE INTERFACE

- Native Windows®-based application that uses standard Windows presentation
- Navigate among customers, sites, schedules and devices using familiar Windows Explorer tree view

### GRAPHICS DEVELOPMENT

- Create custom equipment views, site maps and more with complete freedom using built-in Graphics Editor
- Reduce development time with graphics images library
- Enhance graphics usability with ActiveX controls library
- Generate graphics automatically with Document Wizard

### SCHEDULING

- Create schedules graphically using Network Scheduler
- Include Normal, Holiday and Override events
- Deploy device-resident or PC/Server-resident scheduling

### CONTINUOUS DATA LOGGING

- Log alarms, events, trend and I/O runtime data
- Store information in SQL database for easy access and enterprise level information exporting

### COMPREHENSIVE, ACCURATE TRENDING

- Plot data with multiple I/O points per chart
- Customize plots for colors, title, legend and more
- Combine historical and real time trending
- Custom report generation capabilities

### ACCESS SECURITY

- Prevent access by unauthorized operator with username and password security check
- Assign permissions to operator groups to restrict access to customers, sites and functions
- Log operator actions in audit trail database

### LOCAL AND REMOTE SITE ACCESS

- Accessible via standard web-browsers or local interface
- Operate local site via LonWorks or IP network
- Access remote sites over Internet or IP networks
- Work with multiple customers and sites

### ALARMING AND ALARM MANAGEMENT

- Annunciate alarms immediately when received
- Acknowledge and clear alarms by authorized operator
- Filter alarms view by customer, site, priority and alarm state
- Send alarm notification by email

### NETWORK INTEGRATION AND MAINTENANCE

- Fully integrated with Echelon LNS Turbo Edition
- Launch LNS device plug-ins for device configuration and detailed device diagnostics
- Create, commission and maintain open, multivendor, interoperable LonWorks network with Network Editor add-on
- Create and restore site or database backup
- Synchronize devices with PC/Server's local date and time

### STANDARD SYSTEM REQUIREMENTS

- Operating systems: Windows 7 (Professional 32 & 64-bit; Ultimate 64-bit); XP 32-bit; Vista Business 32-bit; Server (2003 32-bit; 2008 64-bit)
- Microsoft SQL Server 2005 (Express Edition included)
- LNS Server Turbo Edition
- Processor: 2 GHz; x86 or higher
- Memory: ≥ 2 GB RAM
- Hard drive: ≥ 10 GB minimum free disk space, SATA-2 or better

### EFFICIENT BUILDING AUTOMATION CORPORATION

1004 - 7495 132nd Street, Surrey BC, Canada V3W 1J8

Telephone: +1 604.503.4404 Facsimile: +1 604.503.4405

Website: [www.circon.com](http://www.circon.com)



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