

# Product Bulletin

## ControlView®

### Virtual Logic Controller

#### Product Summary

Full featured Industrial Panel PC with embedded Human Machine Interface (HMI), Web-Enabling Software, and IEC-61131 embedded control featuring:

- Industrial PC priced lower than proprietary HMI panels w/o control
- Color TFT display with touch
- Powerful HMI software created for FlashPoint by Indusoft
- Embedded ISaGRAF IEC 61131 control engine with I/O drivers
- FlashPoint Application Developer and Customization Toolkits
- Standard Web Server
- Total connectivity to high level networks

#### Innovative Minds

....Intelligent Solutions



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The components of **ControlView® Virtual-Logic Controller (VLC)** are: a) powerful graphics, HMI software with Web server, b) Embedded ISaGRAF control engine, and c) an industrial, Pentium class Panel PC.

- **ControlView** visualization software is a powerful, cost effective HMI runtime package with alarms, trends, recipes, and reports. designed by **InduSoft** for **FlashPoint Technologies**

Visualization is through traditional HMI or browser, using embedded web connectivity.

- **ControlView VLC runtime** is an embedded control engine, based on ISaGRAF, the global leader in embedded automation.

The runtime has been created to take advantage of reliable, low cost platforms using ARM9, Pentium Class, and other processors

- **ControlView VLC** provides a one box solution for control, visualization, and web connectivity. Both control and visual applications are efficiently created through an integrated tag database

" Pentium class PC with touch screen, 5.6 Color TFT. Opt. 15" thru 19".

64 Meg of DRAM , 32 Meg of onboard Flash (min.) with application storage on Compact Flash card

High speed embedded CPU's with real time clock and on board Ethernet. Processor and speed based on product type.

**ControlView VLC** comes with Windows CE.Net, Control runtime, Visuals, and drivers installed

**FlashPoint Technologies'** ControlView product family is designed to give OEM's, integrators, and users high level control, graphics, reporting, and communication capability traditionally available in packages 5 to 10 times more costly.

**Don't let the size of your automation project dictate the power of your HMI, control and communication capability.**

#### Unleash the power of *Embedded Automation*

Costly Ethernet cards needed to network PLC controllers are eliminated as are separate proprietary HMI panels and controllers for machine automation

Built with leading edge software tools and components from InduSoft and ISaGRAF, **ControlView Virtual Logic Controller** for Windows CE offers the most powerful, open HMI/SCADA/Control software available in the world.

#### **ControlView Embedded Automation**

- Control
- HMI
- SCADA
- Web Connectivity

# Technical Overview

**ControlView®** from **FlashPoint Technologies** combines software tools from leaders in embedded technology like InduSoft and ISaGRAF with Industrial Pentium Class panel PC's. The goal is to deliver on a promise of open automation embedded into non-proprietary industrial hardware.

The **ControlView® Virtual Logic Controller** is designed to replace proprietary HMI panels with limited capability with a powerful package that provides intelligence, customization tools, open control and visualization, plus Web connectivity in a single, standard product. The software was designed and written for Windows CE, taking full advantage of its high speed determinism.

Utilize the power of today's PC processors to create much faster applications on a given target or reduce the number of target machines needed for a given control task, without costly proprietary hardware.

The hardware form factor of ControlView provides enough power to tackle projects many times its size. ControlView is **NOT** a proprietary device; it ships with over 180 communication drivers installed. You pick the protocol to match your standards. Control I/O drivers are built around ModBus Serial and Ethernet protocols

## ControlView Hardware Specification:

- CIRRUS ARM920T Pentium class processor
- 6", 8", and 12" TFT LCD Color display with touch screen. Also available through 19"
- 64 MB on board DRAM
- 32 MB on board Flash Memory, expandable through on board Compact Flash socket
- Windows CE .NET installed
- Programmable watchdog timer
- Three serial ports (two RS-232, one RS-485) min.
- Two USB Host ports, three on larger units
- 10 Base-T Ethernet port standard
- TFT Display features 256 colors, 320x240 res., 100 deg. viewing angle
- 6" TFT Dimensions 8.3"W x 6.0"H x 1.9"D,
- Power input 24 VDC
- Operating temperature 0-45 deg. C

The power behind **ControlView VLC** is an embedded control engine designed around ISaGRAF, the global leader in embedded automation, and a robust, full featured HMI software package designed for **FlashPoint Technologies** by InduSoft, Ltd. ControlView VLC products include both a control and HMI runtime installed. Applications are efficiently developed because of a shared tag database.

ControlView VLC runtime target (Virtual Machine) operates on the controller and executes the application like a PLC only more powerful. Scan rates are selectable, multiple applications can reside on a single controller, and multiple target machines can be networked in a true DCS fashion.

The runtime target (VM) is fully customizable with no impact on the applications generated by the FlashPoint Application Developer (Workbench).

The choice is yours to incorporate traditional HMI or utilize the power of web technology for browser based visualization. Data connectivity is simplified over multiple processes, plant locations, or networks. This connectivity is provided through the communication ports provided on ControlView as standard.

## Software Overview & Summary:

### Database:

- Unlimited control I/O
- Up to 150 tags, expandable to 1,500 tags
- Integrated control/HMI database
- Security System on board
- Uses MS Access database format

### Communication:

- OPC Client & Server, TCP/IP Client & Server
- All industry protocols supported

### Feature Overview

- Embedded runtime engine for machine control
- Text, Bitmaps, ActiveX objects, Web Pages, Alarms within the HMI package
- Single package for development, download, simulation and debug
- Embedded Web server and Translation Editor

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