



INTEGRATED CONTROL SYSTEMS, INC

Innovative Solutions, Enhanced Performance

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INDUSTRIAL CONTROL SYSTEMS



SCADA - AUTOMATED QUALITY CONTROL



POKA-YOKE ASSEMBLY CELLS

VISION INSPECTION PANEL

ICSI provides a turnkey solution for integrating vision inspection into any manufacturing process without the need for additional complex PLC or HMI programming.

The **Vision Inspection Panel** comes with a complete drawing and installation package enabling do-it-yourself integration. For customers requiring assistance, ICSI offers a range of installation services from remote support to complete on-site setup.

Keyence Configuration

- Keyence IV, IV2, or IV3
- Up to four vision sensors

FLIR Configuration

- FLIR Black Fly S
- Up to four cameras

Additional I/O Options

- One Keyence SR-1000 or 2000 series bar code scanner
- Multiple Discrete I/O available for pass/fail/trigger events



FEATURES

- **Turnkey solution!**
- Step by Step integration guide for plug-and-play operation.
- Intuitive HMI design with recipe-based configuration screens.
- Multiple User Levels with Password protection to restrict access.
- Real-time monitor of vision inspections via HMI.
- Data storage options for images and results.
- Inductive Automation Ignition® ready.
- UL 508A Certified control panel.
- Quick Connections for power and ethernet.



Technical Specifications:

INCLUDED	DETAIL
PLC (Keyence KV Nano KV-NC32T)	Base unit I/O: Input 16 points/1 common, Output 16 points/1 common Performance: 32K Steps, 265 max I/O, Up to 8 Expansion Units, Basic instruction 50ns minimum, Application instruction 170ns minimum Built-in functions: Logging, 4 Interrupt inputs, 3 High-speed counter channels, 3 positioning axes Interface: USB and Serial FTP client/server function available.
HMI - Touch Display Panel (Keyence VT5-WX)	Display size: 12 inch Display type: TFT LCD Display resolution: 1024x764 OS: Windows® Audio Output: Yes. Built-in functions: KV Replay, KV Monitor
Rack Power Supply	120V AC Supply Plugs into standard receptacle (6A FLA) Protected by UL489 Circuit Breaker 24VCD Power for external devices
Enclosure	Size: 19.68" (H) x 19.68" (W) x 7.87" (D), Single door Surface finish: Powder coated RAL 7035, texture finish Material: Metal Sheet steel
Communications	Protocols: EtherNet/IP™, TCP, UDP (KV-NC1EP) Public port speed: 10/100 Mbit/s Local network speed: 10/100/1000 Mbit/s NAT (Network Address Translator): Supported topologies: Linear, Start, DLR (Device Level Ring) Public Ports: 1 RJ45
Environmental Standard	UL 508A

CONFIGURATION	DETAIL
Vision Sensor (Config. 1)	Keyence IV, IV2 or IV3 Supports up to 4 sensors for vision inspection
Machine Vision Camera (Config. 2)	FLIR Machine Vision Cameras Spinnaker SDK compatible Supports up to 4 cameras for image capture
Barcode Reader (optional)	Keyence SR1000 or SR2000

