CVS-700 Vision Systems

Points of Interest:

- Member of the Automated Imaging Association
- Charter Member of Motion Control Association
- Member of American Solar Energy Society
- Over 700 distributors, representatives and factory-trained service providers

NEURO CHECK
Industrial Vision Systems

FSI Technologies Inc.

For over 50 years, FSI has manufactured and supplied high quality technical products to industrial and military markets. Founded in 1959 as Fork Standards, FSI originally produced oscillators and time standards for military applications. Since then, we've evolved to produce other automated products, technologies, solutions and technical services for industrial markets (i.e. encoders, sensors, counters and controls).

In 1998, the company launched "FSI Machine Vision" in response to a growing interest and demand for machine vision products. Six years after that, the "FSI Express" division was founded — an online store for select industrial products at competitive prices. In 2005, Fork Standards officially changed its name to FSI Technologies Inc.

Our goal is to continue to provide our customers with high-quality products based on leading edge technological advancements. We never lose sight of the most important part of our business — our customers.

CVS-700 Vision Systems

The CVS-700 Vision System is a line of products that includes:

- Central Vision Processor
- Machine Vision Software
- Camera (s)
- Optional input/outputs
- Optional accessories such as form factors and enclosures

These systems can range in size from one that supports a single machine vision camera to one that supports as many as thirty-two. This product line offers a cost-effective vision inspection system that is built, tested and supported by the machine vision experts at our Lombard, IL factory.

ACQUIRE THE IMAGE

PROCESS THE IMAGE

MEASUREMENT AND JUDGEMENT OF THE IMAGE

CONTROL & DATA OUTPUTS

Supported by NeuroCheck Machine Vision Software

NeuroCheck software is one of the most universal machine vision system software available on the market today. It works well for all areas of automatic visual inspection and robot guidance in industrial manufacturing.

NeuroCheck features a full-spectrum of the highest end machine vision tools with the simplicity of a single, fully-integrated, user friendly graphic front end

It is available in three different licensing versions

- Run Time—Cost-effective duplication of a completely configured machine vision application.
- Professional—Standard functionality for the typical machine vision user.
- Premium—Using special editors and software interfaces, user-defined functions can be added to the system.

The NeuroCheck Concept

Powerful

- Offers almost every machine vision tool on the market today
- Available in most hardware configurations (Windows 2000, Windows XP)
- Offers advanced interconnectivity options
- Optional plug-in support

Standardized

- Tool set that is standardized across all software versions
- Scalable without violating this standardization

User Friendly

- All functions are fully integrated for automatic transmission of results between functions—single user interface
- Graphic interface and dialog boxes for all tools and functions

Trustworthy

- Worldwide standard with 15 years of continuous evolution and deployment
- Thousands of industrial implementations

Customer-Selected Features/Options

FSI Technologies Inc. works with its customers to completely understand the mission of each machine vision application.

Because our goal is long-term successful ownership of the vision unit, we believe in educating our customers on how to make good decisions and selections regarding the unit itself.

This includes customizing each vision unit to meet the needs of the individual application.

Customers and FSI Engineers will work together to select the proper features within the following categories:

- Central Vision Processor (memory, processing power, storage capacity)

  This can be wall, base or rack mounted
- Cameras—Quantity and Quality, Gray scale or color (1-32 cameras total)

  Options include: interlaced/progressive scan, area or line scan
- Imaging Requirements

  Options include simultaneous or sequential processing

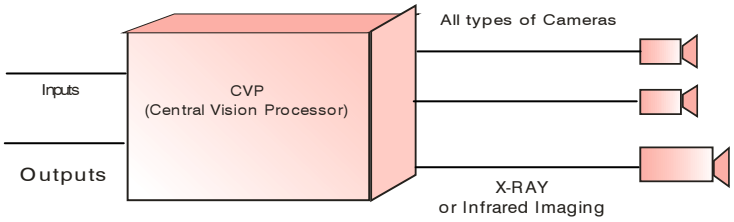
  Infrared or X-ray
- Camera/CVP enclosures (NEMA 1 through NEMA 4X)
- Input/Output selections (if appropriate)

  Types include DC, AC, low & high voltages

  Output quantities of 0-32
- Other Options

  Ethernet, profibus ports, serial, parallel ports

  Built-in displays, high speed direct hardware trigger, asynchronous image acquisition options



Visual Inspection Capabilities

The CVS-700 units have multiple tools to accomplish a wide variety of inspection tasks, such as:

- Presence verification
- Gauging/Dimensional inspection
- Character recognition
- Bar Code/Data Matrix code ID
- Pattern/Color recognition
- Surface inspection
- Position verification/robot guidance
- Print inspection

Applications in Industry

Companies large and small can benefit from the CVS-700 series of machine vision units.

Typical industries that are currently vision include:

- Automotive/Automotive suppliers
- Food Processing
- Medical/Pharmaceutical companies
- Packaging and Printing
- Plastics and glass production
- Engineering and Electronics industries

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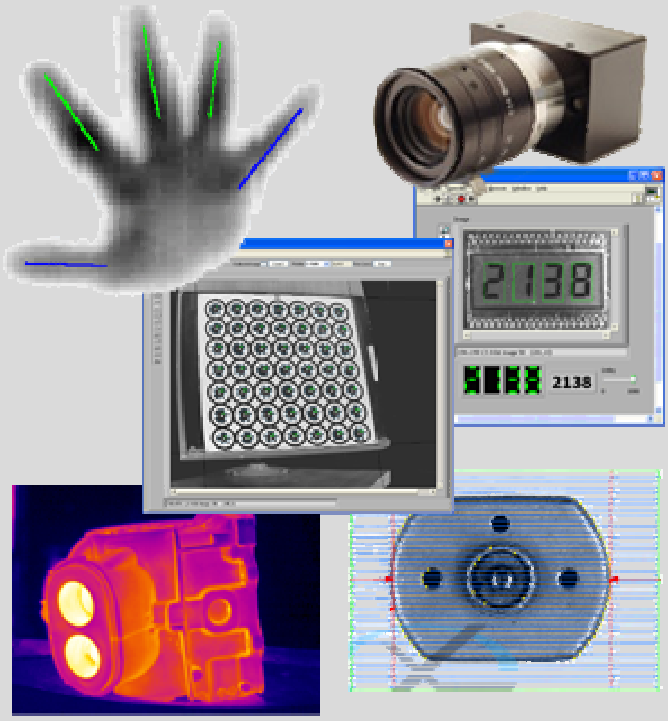
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