

Reduce Ribbon Makeready Waste !!

Imaging Technologies, Inc.

Introduces a new Printing Press
Automation System . . .

With our state of the art Engineering Designs
you get unparalleled benefits . . .

- High Performance
- Precision Control
- High Reliability
- Compact Size
- Easy to Use
- Easy to Install
- Highly Scalable
- Low Maintenance
- Uses Micro-marks
- Low Cost Solution
- Fast ROI



Automated Ribbon Control

www.i-technologies-inc.com

The average number of Ribbons has increased as modern presses become wider. As a direct result, Ribbon control management has also increased in complexity and difficulty. Unfortunately this leads to considerable amount of paper waste. Print customer's demand for superior quality also becomes a large concern.

i-TECH recognized the problem and has dedicated its Engineering expertise to provide a state of the art and innovative system solution for you.

i-TECH now offers an Automated Ribbon Control system that will drastically reduce your makeready and run-time waste due to other inefficient ribbon control methods.

High Performance and Precision Control

- Better than 0.001 inch measurement resolution (0.025 mm)
- Supports press speeds of up to 4,100 fpm (22 meters/second) interfacing to any type of encoder (folder encoder)
- Brings all Ribbons in control tolerance within 300 impressions (typical)
- Sophisticated control algorithms for fast and tight Ribbon positioning, easily handling web upsets like splice and tension changes
- Intelligent Camera with Ultrafast on board Digital Signal Processing (DSP)
- Proprietary Pattern Recognition software for fast and reliable mark searches
- Large VERTICAL Field-of-View (FOV) for extremely fast mark searches
- High quality Optics and Lighting accommodates large paper bounce (flutter) as much as 0.5 inch (12 mm) for unsupported paper
- Industrial Network system using high speed 100 MBit and 1 GigaBit Ethernet.



**Intelligent Vision System
With Color CCD Camera
DSP and FPGA Technology**

Safety Yellow Paint

NEMA Enclosure

Diagnostic LED

Air Nozzle System

High Reliability and Compact Size

- Highly customized compact camera design contains all the electronics required for low cost stand-alone operation
- Small package fits nicely within the envelope of a 4-inch compensator roller
- The simple architecture requires minimal wiring and consequently has less potential point of failures
- System does not need those bulky "Central Computer" enclosures which can sometimes measure over 6 feet tall and wide
- Designed with industrial-grade components, conforms with industrial regulations.

Easy to Use and Easy to Install

- All necessary documentation is given so the system can be installed by the customer to 90% completion
- **i-TECH** Field Engineer finalizes the installation along with customer training
- Full Time and Real Time image view allows the operator to see all the camera images at the console
- "True Color Image Feedback" allows viewing of camera images in color
- A Touch Screen is provided for the user console (with 18 - 24 inch size options)
- User Interface runs on Microsoft Windows XP or MS Vista (2007) operating system on an industrial server PC
- Best in class Graphical User Interface - bar none. Operators can be trained quickly
- Interface to existing motors (angle bars, compensators etc.)
- Quick JOB setup and recall.

*"Designed for the harsh News Printing environment
with the precision for Commercial Printing"*



Micro Mark Design

- Measures a mere 0.5mm x 3 mm
- Integrates well within the color bar
- Proprietary asymmetrical mark design
- Print anywhere in the page, in any color
- Other mark sizes available upon request
- Mark teach option



- Patent Pending Technologies
- Best in class performance
- Best in class price
- Fast ROI

Low Maintenance

- High velocity Air Purge nozzle keeps the optical window constantly clean (6 months typical)
- Advanced lighting system adapts to changing conditions of lamp life and variations in paper type
- Extra long life dual xenon flash lamp with 1 Billion Flashes and a 3-year life expectancy
- Self-diagnostics with early warning system (via email)

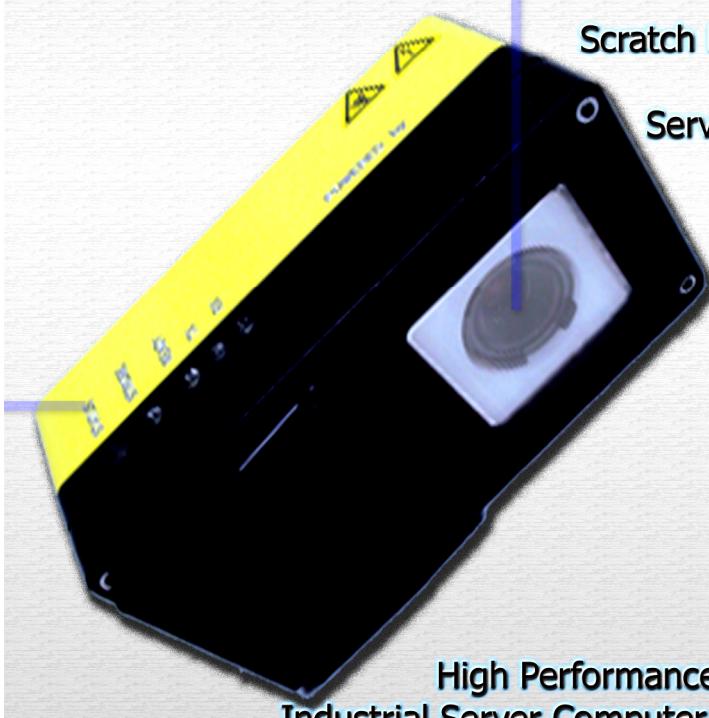
Highly Scalable System

- Unlimited Ribbons
- Unlimited Jobs
- Unlimited Preset
- Unlimited Folders
- Balance the work load with unlimited multi-client consoles

High Intensity Lamp System

Scratch Resistant Window
Serviceable Enclosure
Precision Optics

Touch Sensitive Monitor



High Performance Industrial Server Computer



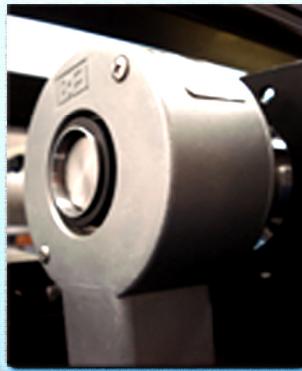
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i-TECH products are covered by several patent pending technologies.

Windows Server Application Features

- Microsoft Windows XP or Vista (2007)
- Advanced Graphical User Interface design
- Real-time data and camera image display
- SPC Logging and reporting
- Control all i-TECH products from one or multiple user consoles
- Real Time on-line and off-line performance analysis
- Remote System status viewing (from supervisor's office)
- CIP4 and JDF preset options
- Localized interface and languages
- Online help documentation

Support

- 24/7 Customer Care phone support
- Fast on-site field support
- Remote Diagnostics
- Remote Performance analysis
- Remote software upgrades
- Real Time "Talk and view" support



**High Speed FPGA
Encoder Interface
64 to 24,000 PPR**

Applications

- OEM Press integration
- New Press installation
- Old Press retrofit installation
- Upgrade from older technology
- Full Ribbon or Web control
- Sidelay and cutoff control
- Print to Fold-only control
- Print to Cut-only control
- Print to process control
- Newspaper Printing
- Commercial Printing
- Publication Printing
- Web Printing
- Sheetfed
- Gravure
- Flexo

**High speed and high accuracy
motors for Camera Transport**



Imaging Technologies, Inc.
*"Advancing Productivity through innovations in
Intelligent Imaging and Automation."*

Read our white papers and find out why i-TECH products are the best solution for you. Talk to us about any of your printing automation needs. For inquiries you can find us at: