

Reduce Color Registration 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
- 16 Colors per Surface
- Fast ROI

Automated Register Control

Color registration is one of the most obvious defects in printing. With more and more color pages being printed, as well as the increase in the number of colors per surface, the level of complexity in controlling registration has also increased. 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 Register Control system that will drastically reduce your makeready and run-time waste versus legacy register control methods.

High Performance and Precision Control

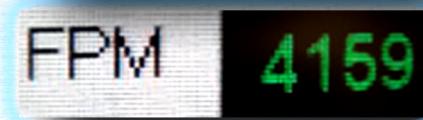
- Samples each impression with better than 0.001 inch of measurement resolution (0.025 mm)
- Supports press speeds of up to 4,100 fpm (22 meters/second) interfacing to any type of encoder (unit encoder)
- Installs right after the last printing unit for the fastest control response possible
- Brings all Register Surfaces in control tolerance within 300 impressions (typical)
- Sophisticated control algorithms for fast and tight Register 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 unsupervised mark searches
- Large VERTICAL Field-of-View (FOV) for extremely fast mark searches
- High quality Lens, Optics and Lighting accommodates large paper bounce (flutter) as much as 0.5 inch (12 mm) for unsupported paper.
- The Wide Spectrum Lighting improves contrast and sensitivity, which is very important for registration of the "Yellow Color Unit"
- Industrial Network system using high speed 100 MBit and 1 GigaBit Ethernet.

High Reliability and Compact Size

- Highly customized compact camera design contains all the electronics required for low cost stand-alone operation
- Small package provides maximum installation flexibility
- The well designed architecture requires minimal wiring and consequently has less potential points of failures
- With the very small enclosure foot-prints, the system provides the advantage of facilitating OEM and retrofit installations
- 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
- Interfaces to existing register motors or OEM systems
- Quick JOB setup and recall.



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

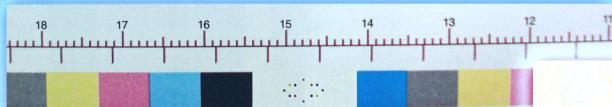
Safety Yellow Paint

NEMA Enclosure

Diagnostic LED

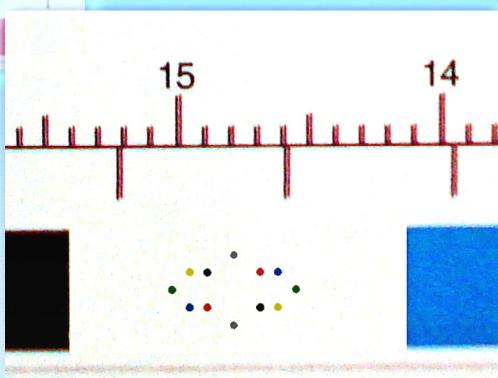
Air Funnel System

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



Micro Mark Design

- Proprietary mark design
- Measures a mere 3 x 5 mm
- Small white space requirement
- Integrates well within the color bar
- Print anywhere in the page, in any color
- Other mark sizes available upon request



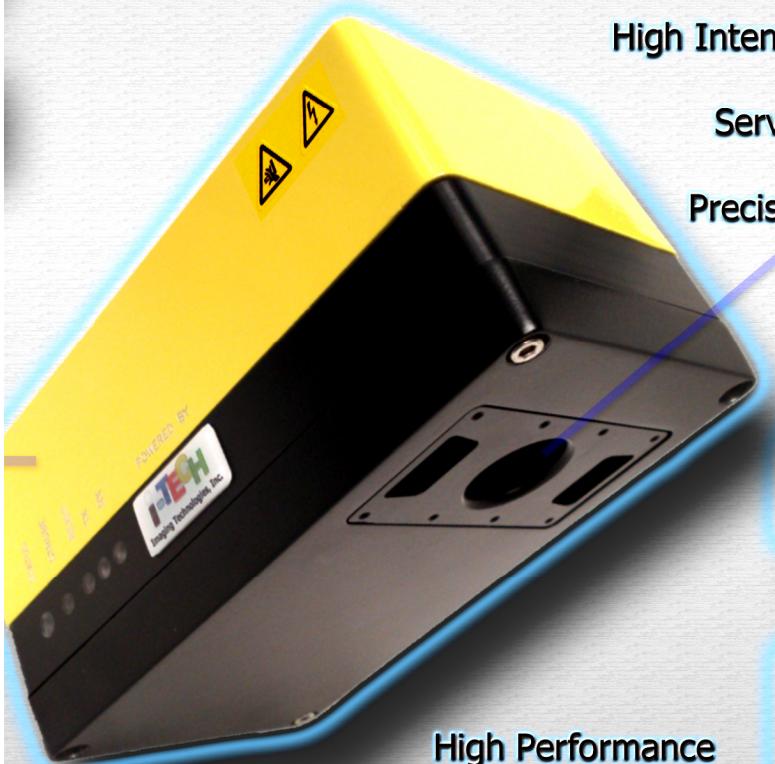
- Patent Pending Technologies
- Best in class performance
- Best in class price
- Fast ROI

Low Maintenance

- Innovative High Velocity Air Funnel design keeps the optical windows contaminant-free. Impervious to ink mist and dust providing long periods of operation without cleaning
- Advanced lighting system adapts to changing conditions of lamp life and variations in paper type
- Extra long life dual xenon flash lamps with over 1 Billion Flashes
- Self-diagnostics with early warning system (via email)

Highly Scalable System

- Unlimited Register Web surfaces
- Unlimited multi-client consoles
- Unlimited Presets
- Unlimited Folders
- Unlimited Jobs

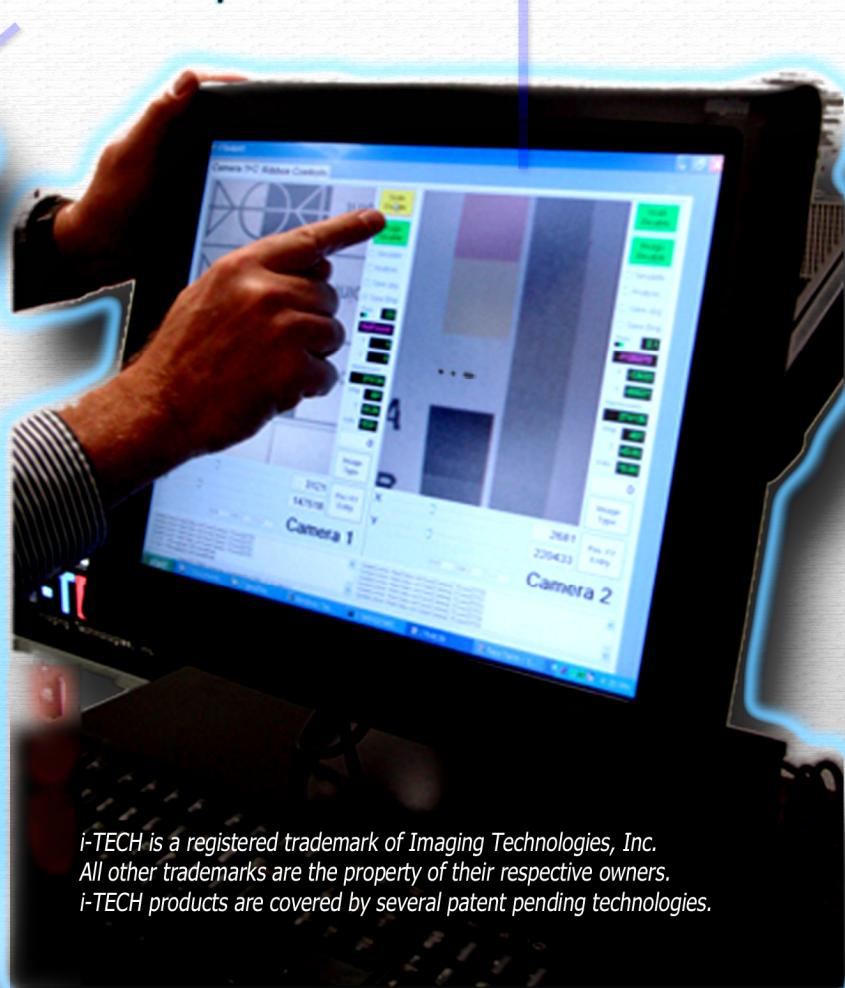


High Intensity Lamp System

Serviceable Enclosure

Precision Lens & Optics

Touch Sensitive Monitor



High Performance
Industrial Server Computer

i-TECH is a registered trademark of Imaging Technologies, Inc.
All other trademarks are the property of their respective owners.
i-TECH products are covered by several patent pending technologies.

Windows Server Application Features

- Advanced Graphical User Interface design
- Microsoft Windows XP or Vista (2007 and up)
- Real-time data and color camera image display
- Control all i-TECH products from one or multiple user consoles
- Remote System status viewing (from supervisor's office)
- Real Time on-line and off-line performance analysis
- CIP3/PPF or CIP4/JDF preset options
- Localized interface and languages
- SPC Logging and reporting
- Online help documentation

Support

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

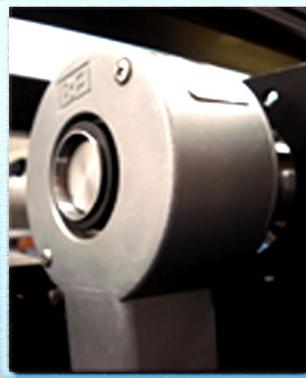
Applications

- OEM Press integration
- New Press installation
- Old Press retrofit installation
- Upgrade from older technology

- Carton and Packaging
- Commercial Printing
- Newspaper Printing
- Publication Printing
- Label Printing
- Web Printing
- Sheetfed
- Gravure
- Flexo

Options

- Cocking Control
- Phasing Control
- Auto-Transfer capable
- Front-to-back registration
- Print-to-process Control



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

**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: