

UUNA TEK Introduces the World's First Bulk Writing Machine with Integrated Machine-Vision Scanner Technology

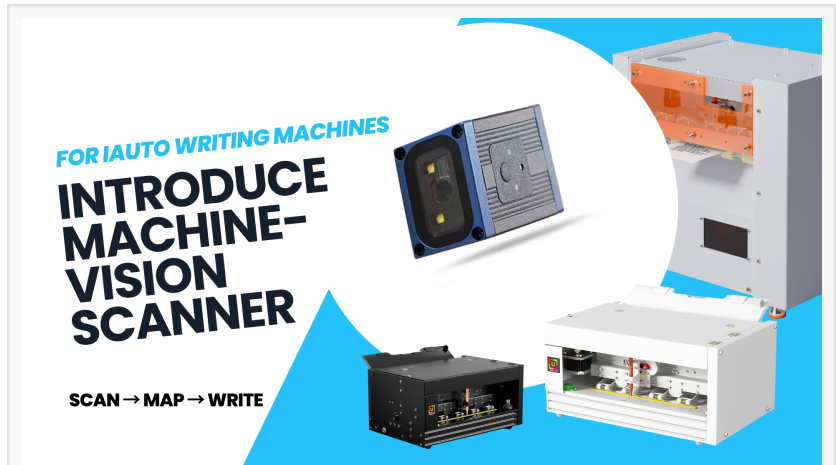
Camera-based QR & barcode scanning enables real-time, data-driven automated handwriting at scale

WILMINGTON, DE, UNITED STATES, January 15, 2026 /EINPresswire.com/ -- UUNA TEK®, a global innovator in automated writing and drawing systems, today announced the launch of its [Scanner Module](#) for iAuto Writing Machines, establishing the world's first bulk writing system capable of using integrated machine-vision scanning to control handwriting workflows in real time.

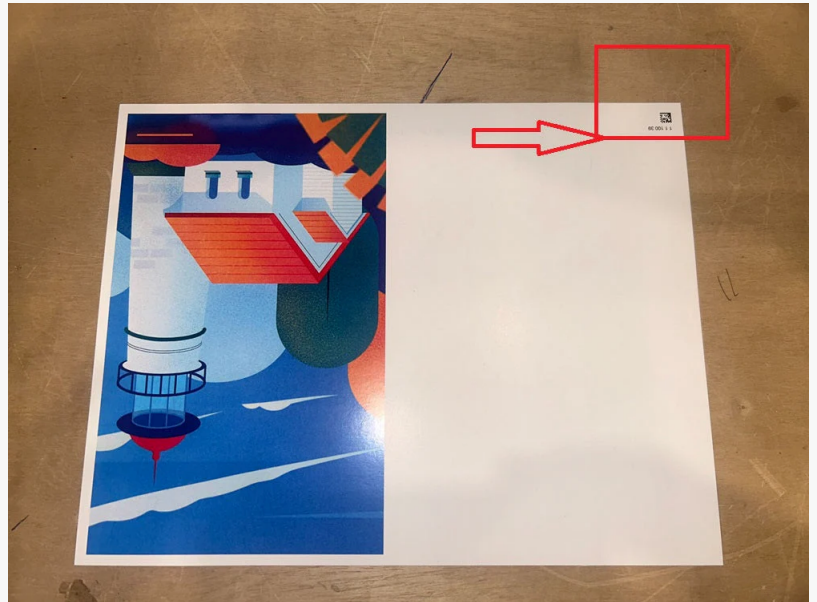
Video Demo:

https://www.youtube.com/watch?v=tSWbDC2_8TQ&list=PLA2MtqsvPsTk-YXeJB-Ej1Bktz5YPP1w0

By combining automated handwriting with camera-based QR and barcode recognition, UUNA TEK transforms bulk writing from static batch execution into an intelligent, data-aware production system, setting a new industry standard for personalization, accuracy, and scalability.



iAuto Writing Machines



Scanner Module

From Automated Writing to Intelligent, Vision-Driven Workflow Control

Traditional bulk writing systems rely on preloaded data and manual matching, limiting flexibility

and increasing the risk of errors. UUNA TEK's scanner module introduces a fundamentally different approach.

The system integrates machine-vision, camera-based scanners directly into iAuto writing machines, enabling each sheet to be visually identified before writing begins. This allows the system to:

- Capture QR codes and barcodes in real time
- Instantly retrieve and map variable data per document
- Ensure precise one-to-one matching between physical sheets and digital records
- Execute continuous, unattended writing at production scale

This scan □ map □ write workflow represents a major advancement in automated handwriting technology.

Machine-Vision Architecture Built for Moving Paper

Unlike traditional laser scanners or rolling-shutter imaging, UUNA TEK's solution is built on a machine-vision camera architecture using global shutter CMOS sensors.

This design ensures:

- Distortion-free image capture during continuous paper feeding
- Reliable decoding without motion blur
- Accurate recognition of dense, small, or high-contrast QR and barcode patterns

The camera-based approach is purpose-engineered for high-speed, high-volume writing environments, enabling stable long-term operation across single or multi-machine setups.

Proven at Scale: U.S. Direct Mail Case Study

The scanner technology has already been validated in a demanding real-world production environment.

A leading U.S. direct mail marketing provider—specializing in personalized handwritten-style letters for real estate professionals—partnered with UUNA TEK to upgrade 10+ existing iAuto machines with [camera-based QR code and USPS Intelligent Mail Barcode \(IMb\) scanning](#).

As production volume increased, the client required:

- Precise per-piece identification and data matching
- Elimination of mismatched or incomplete letters
- Reduced manual intervention and downtime
- Seamless upgrades without replacing existing machines

Within approximately 30 days, UUNA TEK delivered a fully integrated hardware and software

upgrade, including:

- Real-time machine-vision QR and USPS IMb decoding
- Automated data mapping and intelligent writing queue management
- Resume-from-checkpoint functionality after interruptions
- Wireless multi-machine synchronization via upgraded WiFi modules

Results included:

- Successful upgrade of all 10+ machines with no soldering or motherboard replacement
- Significant reduction in rework and production errors
- Improved operational stability through automated detection and recovery

This case demonstrates how camera-based scanning enables enterprise-grade reliability and scalability in automated handwriting production.

Two Machine-Vision Scanner Variants Optimized by iAuto Model

To ensure optimal performance across the product line, UUNA TEK offers two dedicated scanner configurations:

P Series Scanner

For iAuto Premium Ultra & iAuto Premium

- 1.3 MP global shutter CMOS vision sensor
- ≥ 3 mil resolution
- Optimized for dense, complex QR codes and industrial-scale workflows

White Model Scanner

For iAuto Plus, Standard, and Advanced

- 1.0 MP global shutter CMOS vision sensor
- ≥ 4 mil resolution
- Broad barcode compatibility and flexible scanning positions

Both variants support a wide range of 1D and 2D symbologies, ensuring compatibility with existing enterprise systems and databases.

Redefining the Future of Automated Handwriting

“With integrated machine vision, automated writing becomes intelligent, traceable, and scalable,” said Klaus Yang, co-founder of UUNA TEK. “This is not simply a scanner add-on — it is a foundational shift that connects physical handwriting directly with digital data in real time.”

As the creator of the world’s first true automatic handwriting machine, UUNA TEK continues to

expand the boundaries of automation for marketing, logistics, events, and enterprise correspondence.

Availability

The Scanner Module for iAuto Writing Machines is available now for all supported iAuto models.

Enterprise customization services are available upon request.

For more information, visit uunatek.com or contact support@uunatek.com.

About UUNA TEK®

Founded in 2005, UUNA TEK® is a global technology company specializing in automated writing machines, pen plotters, and creative automation systems. Trusted by over 20,000 customers worldwide, UUNA TEK is the creator of the iAuto Automatic Handwriting Machine and iDraw Pen Plotter series, delivering precision, reliability, and scalable innovation to businesses and institutions worldwide.

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