



# CHECKREADER

ARTIFICIAL INTELLIGENCE & IMAGE ANALYSIS

## THE "WORLD'S MOST COMPREHENSIVE CHECK PROCESSING TOOLKIT"

A2iA CHECKREADER IS EASY TO INTEGRATE INTO A WIDE RANGE OF CHECK PROCESSING APPLICATIONS: POD, FRAUD DETECTION, COUNTERFEIT DETECTION, REMOTE CAPTURE, ATM AND THOUSANDS OF OTHER APPLICATIONS NEEDING IMAGE QUALITY, IMAGE USABILITY AND CHECK VALIDITY ALL IN A SINGLE PASS.

## The "Entire Check" Recognition Software

A2iA CheckReader locates information on checks and extracts the data while providing image quality, image usability & fraud detection.

A2iA CheckReader, is a core component of the majority of image-based check processing systems today. Using its own proprietary artificial intelligence, it automatically reads natural, freeform cursive handwritten and machine-printed information on business and personal checks; substitute checks, money orders; deposits slips and other related payment documents.



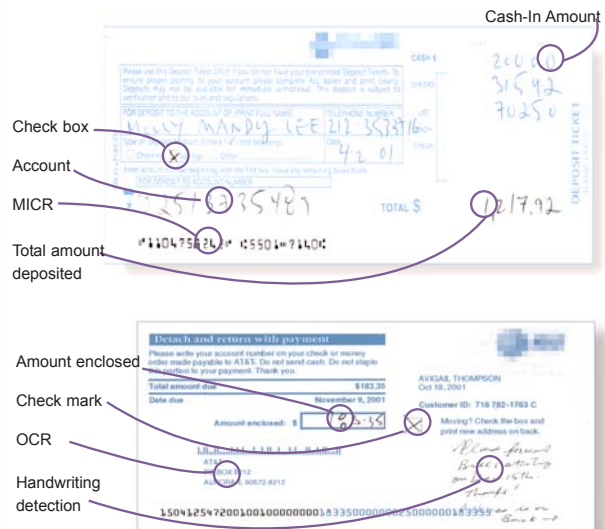
## Recognition

### Amount Recognition



A2iA CheckReader performs Courtesy Amount Recognition (CAR) and Legal Amount Recognition (LAR) in independent processes, enables it to detect mismatched Courtesy and Legal amounts in real time.

### Deposit Slip & Coupon Recognition



**Image Quality / Image Defect Analysis**



**Image Quality** – Are there bent corners, streaks, bands or is the image too dark, etc?

**Image Usability Analysis**



**Image Usability** - Is the information on the check present and readable?

**Image Validity**



**Check Validity** – Does the image contain data that is appropriate to the transaction?

**Image Replacement Document (IRD)**



**IRD** (Substitute Check) Identification & Field Location

**Tool Kit Includes**

- ActiveX Interface
- Application Programming Interface (API) library for C/C++
- Configuration tool
- Documentation
- Sample code

**System Requirements**

**Platform:**  
Windows 2000 / NT / XP  
**CPU:**  
Pentium III 1 Ghz, (minimum)  
**RAM:**  
128 MB recommended  
**Input:**  
Images may be provided as files or as memory buffers  
**Image Resolution:**  
200- 240 dpi or higher  
**Image format:**  
bmp, jpeg, jpeg 2000, tif, color, bitonal or gray

**Tools To Reduce Risk**

A2iA CheckReader compares the payee name on the check to the issue file and is able to detect modifications. A2iA offers fraud and counterfeit detection features such as Check Stock Validation and Blacklist Detection.

**Positive Pay Mode**



**Other Key A2iA CheckReader Features**

- CAR / LAR Mismatch Detection
- Post-Dated / Stale-Dated Check Detection
- Positive Pay / Payee Name Verification
- Black List Payee Name Detection
- Rear Endorsement Detection
- Cursive Handwritten Fields
- MICR Code Recognition
- Memo Line Recognition
- Check Usability and Validity Tests
- Payment Type Classification
- Money Order Detection and Recognition
- Document Identifier
- Coupon Assisted Amount Decisioning

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