PARASCRIPT®

Parascript® CheckUsability
Analyzes check and IRD quality and usability to ensure high image quality standards

Maintain Superior Check Integrity in Real-time

Detects image quality and usability to ensure the candidate images meet all necessary standards.

Superior Check and IRD Image Analysis

In remote deposit capture and other financial image exchange, image quality is a high priority. Maintaining image quality ensures rapid presentment, clearing and settlement, decreases float, eliminates research and operational costs, as well as positively impacting customer service. Parascript continually sets new standards in accuracy and read rates by improving the efficiency and accuracy of check processing automation.

Parascript CheckUsability is a two-in-one solution for image integrity that incorporates image quality and usability techniques to ensure that images meet the most rigid quality and usability assurance tests. Leveraging artificial intelligence and machine learning, CheckUsability analyzes a comprehensive list of items to detect any that are of low quality on personal and business checks as well as Image Replacement Documents (IRDs), minimizing the risk and costs both for truncating and paying banks. Integrity validation is performed by CheckUsability either during capture (transport in-line mode) or after receiving images through the image exchange process in off-line processing mode.

Advanced CheckUsability Benefits

Image Integrity for High Quality and Usability Compliance. Deliver added value to your customers by facilitating regulatory compliance. Improve the integrity of your images, minimize your customers' risks by identifying and fixing low-quality documents, reduce costs associated with researching poor image quality, and ensure that your customers meet image exchange requirements based on government standards.

Image Data Quality Verification Automation. Easily and rapidly validate the critical components of check and IRD image quality using CheckUsability that is powered by artificial intelligence.
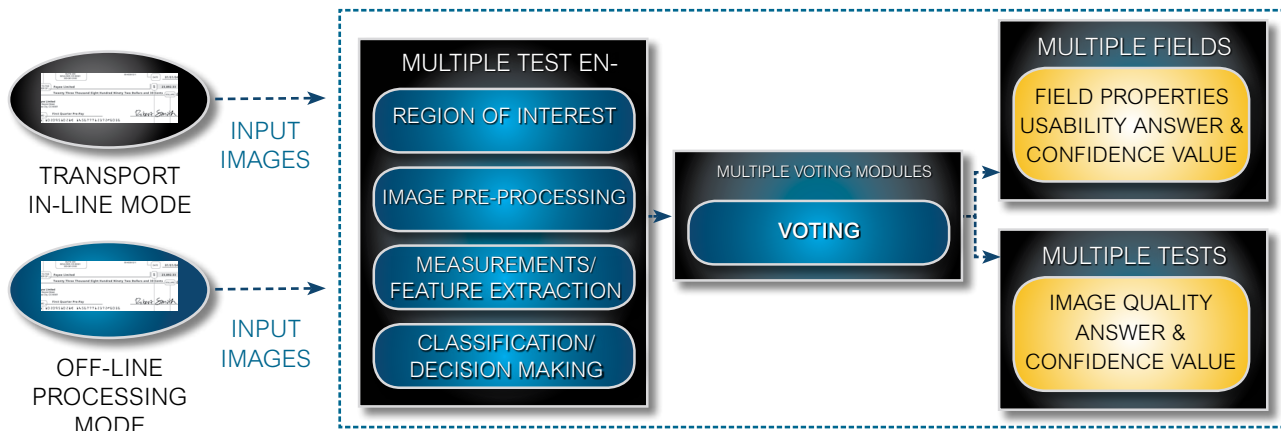
Advanced CheckUsability Benefits

Image Usability. Process discreetly each required field to both determine the presence of data and whether the data can be successfully recognized. CheckUsability also detects backside endorsements. All of this means that your solutions easily evaluate whether checks can be accepted automatically instead of dealing with costly exceptions after-the-fact.

Exceeding the Standards of Accuracy. Meet and exceed your customers' standards for accuracy by providing quantitative analysis of pre-printed and handwritten data using CheckUsability and its advanced pattern recognition, machine learning and neural networks. This comprehensive technology solution improves performance and results during the verification process.

Image Capture and Recognition Hardware Integration. CheckUsability works seamlessly with all standard check scanning equipment, requires no specific setup for particular transports and can be deployed in central or distributed capture environments.

How CheckUsability Works

TRANSPORT IN-LINE MODE

INPUT IMAGES

OFF-LINE PROCESSING MODE

INPUT IMAGES

MULTIPLE TEST EN-
- REGION OF INTEREST
- IMAGE PRE-PROCESSING
- MEASUREMENTS/ FEATURE EXTRACTION
- CLASSIFICATION/ DECISION MAKING

MULTIPLE VOTING MODULES
VOTING

MULTIPLE FIELDS
FIELD PROPERTIES USABILITY ANSWER & CONFIDENCE VALUE

MULTIPLE TESTS
IMAGE QUALITY ANSWER & CONFIDENCE VALUE

1. Multiple test engines are applied for particular quality and/or usability tests.
2. Voting on results from different classification/decision-making engines is applied.
3. Image quality and/or usability answers are provided on a test or field including the confidence values.

Technical Product Specifications

Requirements

- **Platforms:** Windows® 7 Professional, Windows® 7, 8 & 10, Windows Server 2014 or 2016.
- **CPU:** Intel Core or Similar.
- **RAM:** 256 MB minimum required.
- **Storage:** Complete installation requires a minimum of 130 MB free disk space.

Input

- **Image Format**: Black-and-white TIFF, bitmap (BMP), and JPEG industry-standard images from a file, as well as images from DIB or from memory.
- CheckUsability also accepts grayscale images (TIFF, BMP and JPEG) with 8 bits per pixel.
- **Image Resolution**: 200-300 dpi, 100 dpi-grayscale.

Output

- Main answer with confidence value
- List of answers and sub-answers

APIs

- C, C++

License Protection

- Softlock

For more information visit **www.parascript.com** or call us at **888.225.0169**.