VIZ Visual Inspection Zone Reading & ID Authentication

For Adaptive Recognition Passport Readers

Enjoy the ultimate ID document reading and verification experience with Adaptive Recognition's VIZ OCR & ID Authentication module. Pair it with one of our high-tech ID scanners for instantly verifying MRZ (machine readable zone) and VIZ (visual inspection zone) data, as well as standard and nonstandard security features like pattern checking illuminated by various light sources, geometry analysis, and OVD/OVI checks.
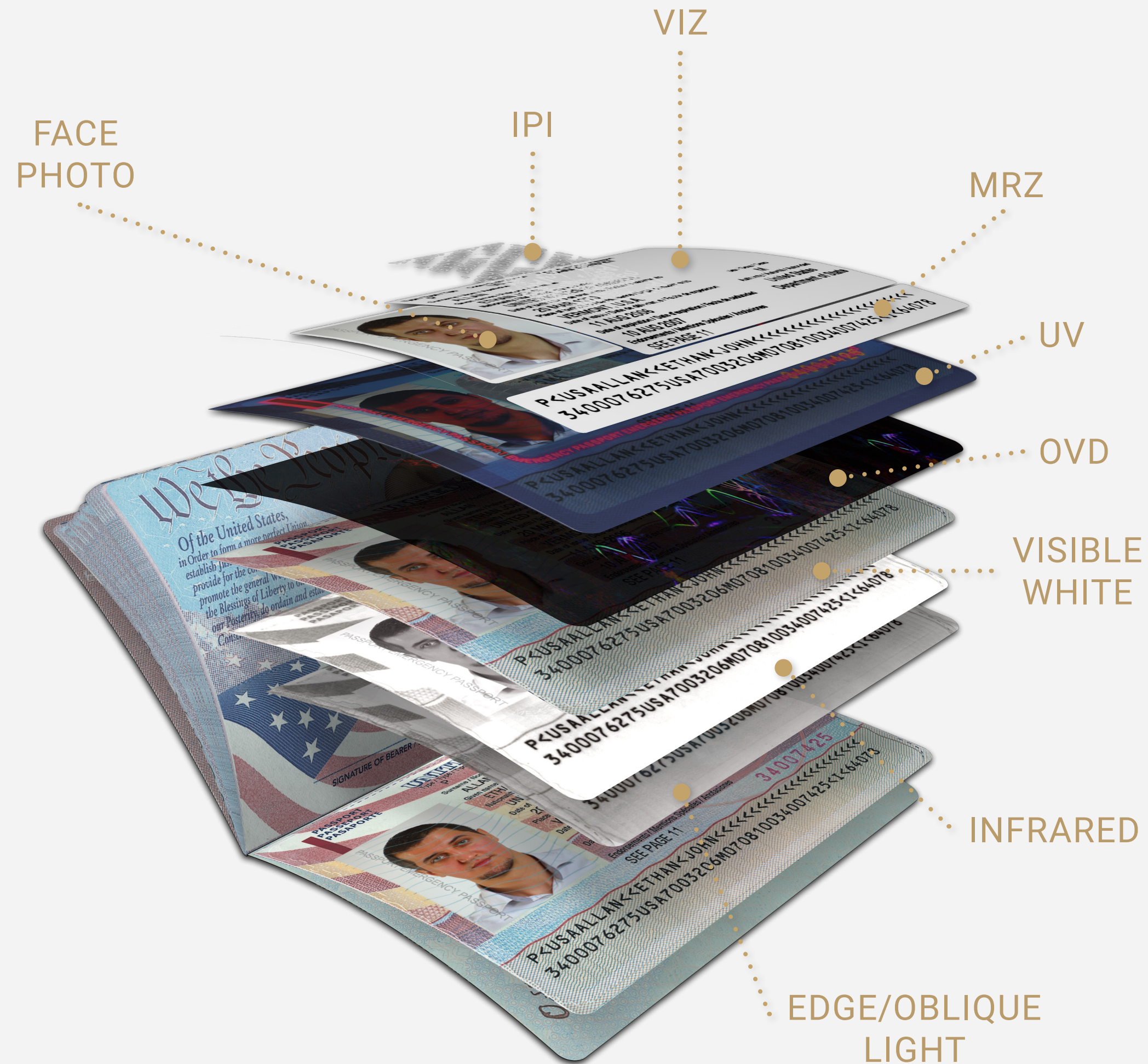
Easy Handling

All you have to do is scan the document, and the software will automatically crop and rotate the image, extract MRZ and VIZ data, and perform ID authentication.

Hardware-Based Licensing

All of our OCRs are hardware-based. Licensing the OCR via our ID scanners allows you to enjoy all of our AI-based image enhancement features.

Deep Learning, Neural Network- and AI-Based OCR

Adaptive Recognition's OCR is in continuous development to deal with real-life documents as soon as they are issued. Combined with the VIZ and authentication modules, the OCR supports data originating from multispectral input source and features AI-based image enhancement.

FACE PHOTO

IPI

VIZ

MRZ

UV

OVD

VISIBLE WHITE

INFRARED

EDGE/OBLIQUE LIGHT

Global VIZ Coverage

Handle VIZ Fields Without Limits

With our included VIZ OCR module, you can confidently read and process all printed data outside the MRZ of ICAO and non-ICAO compliant identity documents—including all non-ICAO VIZ fields—, get them verified instantly, and have them organized in a user-friendly but comprehensive way.
A wide variety of characters, including but not limited to Cyrillic, Georgian, Greek, Arabic, Vietnamese, and Latin—geo-specific characters as well—are fully supported.

The Ultimate Anti-Forgery Toolset

Authenticate IDs Like a True Security Expert

In addition to MRZ and VIZ data verification, the software module provides a multitude of other verification options.

The software works from multispectral image sources to get all security elements visualized and verified on your screen, from patterns and geometric elements to fluorescent inks and fibers.

With the authentication software module, all genera authentication options can be performed such as optical variable devices (OVD) and optical variable inks (OVI) visualization, photocopy detection via UV dullness check, expiration date check, and more.

Advanced features provided by our software include authenticating images of IDs with tactile/embossed elements taken with oblique (edge) light, biometric and text cross-verification options for filtering out cloned/intentionally damaged RFID chips, and detection of photomanipulation by supporting JURA®'s Invisible Personal Information (IPI) technology.

Anti-Glare Image Enhancements

Get Authentication-Ready Images Anytime, Anywhere

The Advanced Light Control® technology adapts image darkness to external light conditions. The Reflection Removal feature minimizes glare effects.

Authentication Software

General Features

Supported operating systems	Windows (32/64 bit), Linux (32/64 bit)
Required ID scanner	Adaptive Recognition passport reader (Osmond, Combo Smart, Combo Scan, PRMc, KIOSK models)
Licensing	One year from purchase included, optional subscription available on yearly basis

Main Software Features (ICAO 9303)

1D / 2D barcode recognition	Yes
Document auto-rotating & cropping	Yes
RFID authentications package*	Yes
General authentication checks	Yes
Checksum verification	Yes
Expiration date check	Yes
Barcode integrity check	Yes
B900 ink check	Yes
Oblique (edge) light support	Yes
UV dullness check*	Yes
OVD (optical variable device) visualization*	Yes
Text cross-checking	MRZ vs. RFID, MRZ vs. VIZ** (birth date, expiry date, document number)
Biometric data cross-checking	Printed portrait vs. RFID photo
JURA IPI® (Invisible Personal Information) reading*	Yes

VIZ OCR Features

MRZ features included	Yes
Personal data extraction & cropping	Yes
Document data extraction & cropping	Yes
Automatic face recognition & portrait cropping	Yes
Text division into separate fields	Automatic segmentation

Authentication Features

MRZ features included	Yes
VIZ OCR features included	Yes
Pattern presence & matching	UV, Infrared
Geometry analysis	Yes
Infrared disappearance check	Yes
Advanced UV dullness check	Yes
Fluorescent ink check	Yes
Fluorescent fiber counting	Yes

Interface

Input	From Adaptive Recognition scanner
Automated operation	Yes
Accepted documents	Passport, Visa, ID cards, Driver's license, Local residence permit, Address card, Health insurance card and many more…
Supported character sets	Latin (Baltic, Northern, Eastern, Southern European) Cyrillic (e.g., Bulgarian, Serbian, Russian, Kazakh) Georgian, Greek, Arabic (only number OCR), Vietnamese and more…

* Indicated functions require optional hardware features
** Integration required
Technical specifications are subject to change without prior notice. This document does not constitute an offer.

Contact

www.adaptiverecognition.com

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