

VIZ Visual Inspection Zone OCR Software Module

For Adaptive Recognition Passport Readers

Supplement the default optical character recognition (OCR) software library included in all of our ID scanner and passport reader devices with our VIZ (visual inspection zone) OCR module. Read and process all printed data outside the machine-readable zone (MRZ) of ICAO and non-ICAO compliant identity documents in an instant and get them verified in a user-friendly but comprehensive way.

Global Coverage

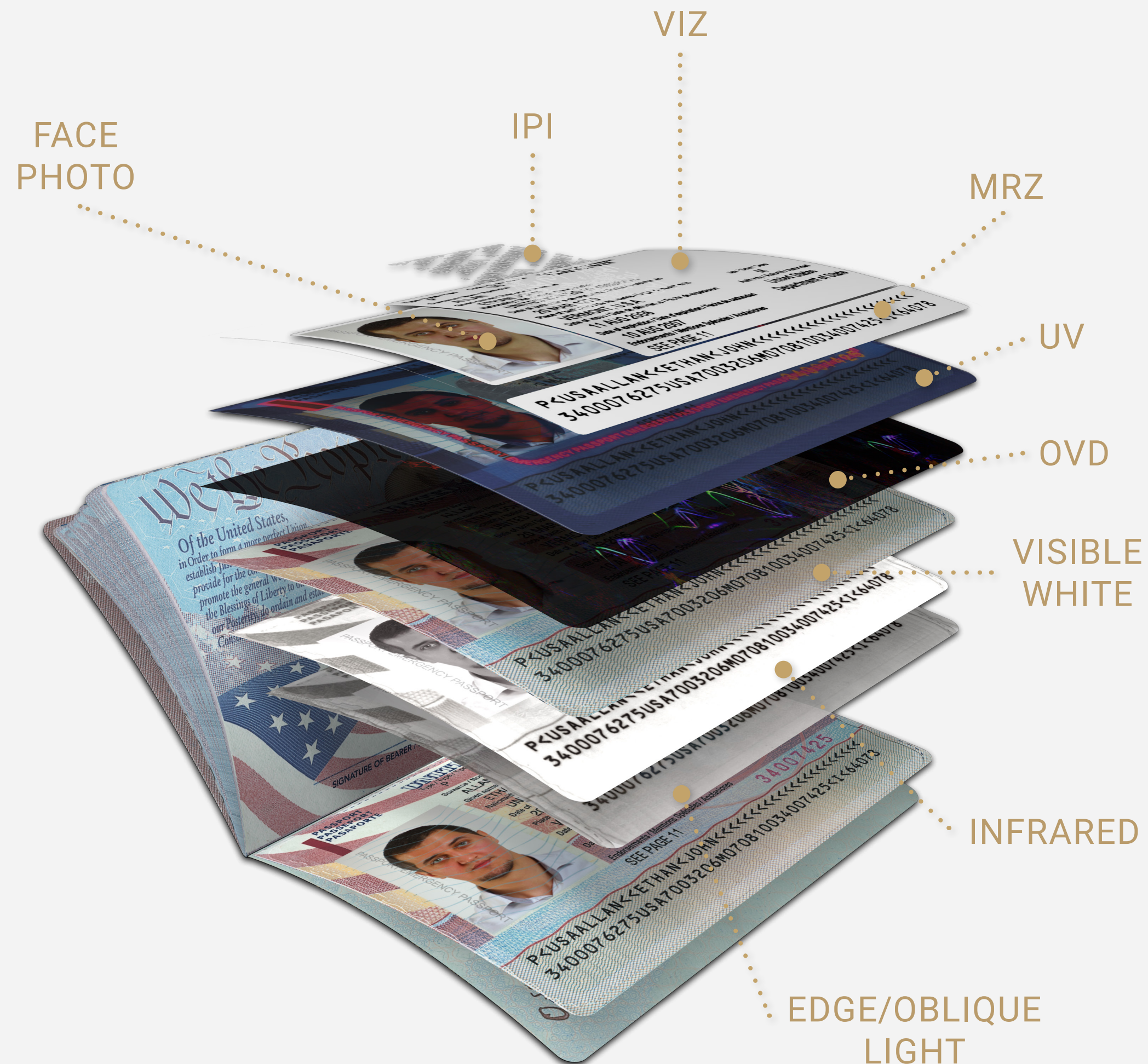
A wide variety of characters, including but not limited to Cyrillic, Georgian, Greek, Arabic, Vietnamese, and Latin.

Hardware-Based Licensing

All of our OCRs are hardware-based, providing you with the best experience via the advanced ID readers of Adaptive Recognition. Licensing the OCR via our ID scanners allows you to enjoy all of our AI-based image enhancement features, including Advanced Light Control and Reflection Removal.

Easy Handling

All you have to do is scan the document, and the OCR will perform the necessary adjustments before verification commences, like autocropping the image and automatically rotating it to face the right direction.



Neural Network-Based OCR

The Industry's Best OCR With the Power of AI

Our OCR has been trained to deal with real-life documents, ensuring that it can read and recognize any ID no matter where and when it came from. The OCR confidently supports data originating from multispectral input sources, and thanks to the power of AI, it features automatic image enhancement to guarantee the best authentication results possible.

In addition to confidently reading all MRZ data, Adaptive Recognition's OCR provides all general authentication checks like checksum verification, expiration date check, UV dullness check, and OVD (optical variable device) visualization. The oblique (edge) light allows for checking tactile/embossed elements and the option to verify highly secure elements like JURA's IPI®.

Unbeatable VIZ Reading

Get the Most out of VIZ via Machine Learning

Unlike with MRZs, there is no standard for the VIZ parts of an ID document, making it harder for machines to handle them. For our VIZ OCR solution, that's not a problem.

Thanks to being trained for dealing with real-life IDs, Adaptive Recognition's VIZ OCR software can confidently read and recognize virtually all data featured in the VIZ. It provides automatic segmentation and parsing too, meaning that all extracted data turned into text format is conveniently divided into separate fields for better understanding.

ID document classification is no longer an issue either. You'll always know where the ID comes from and which generation it belongs to.



Cross-Checking Options

Bust Forged Documents Instantly

By offering MRZ reading by default, you have plenty of options to verify data extracted from the MRZ, such as comparing it with data stored on the RFID chip. Optionally, after making the necessary integrations, MRZ data can also be compared with the information coming from the VIZ parts of the document.



VIZ OCR

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

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

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