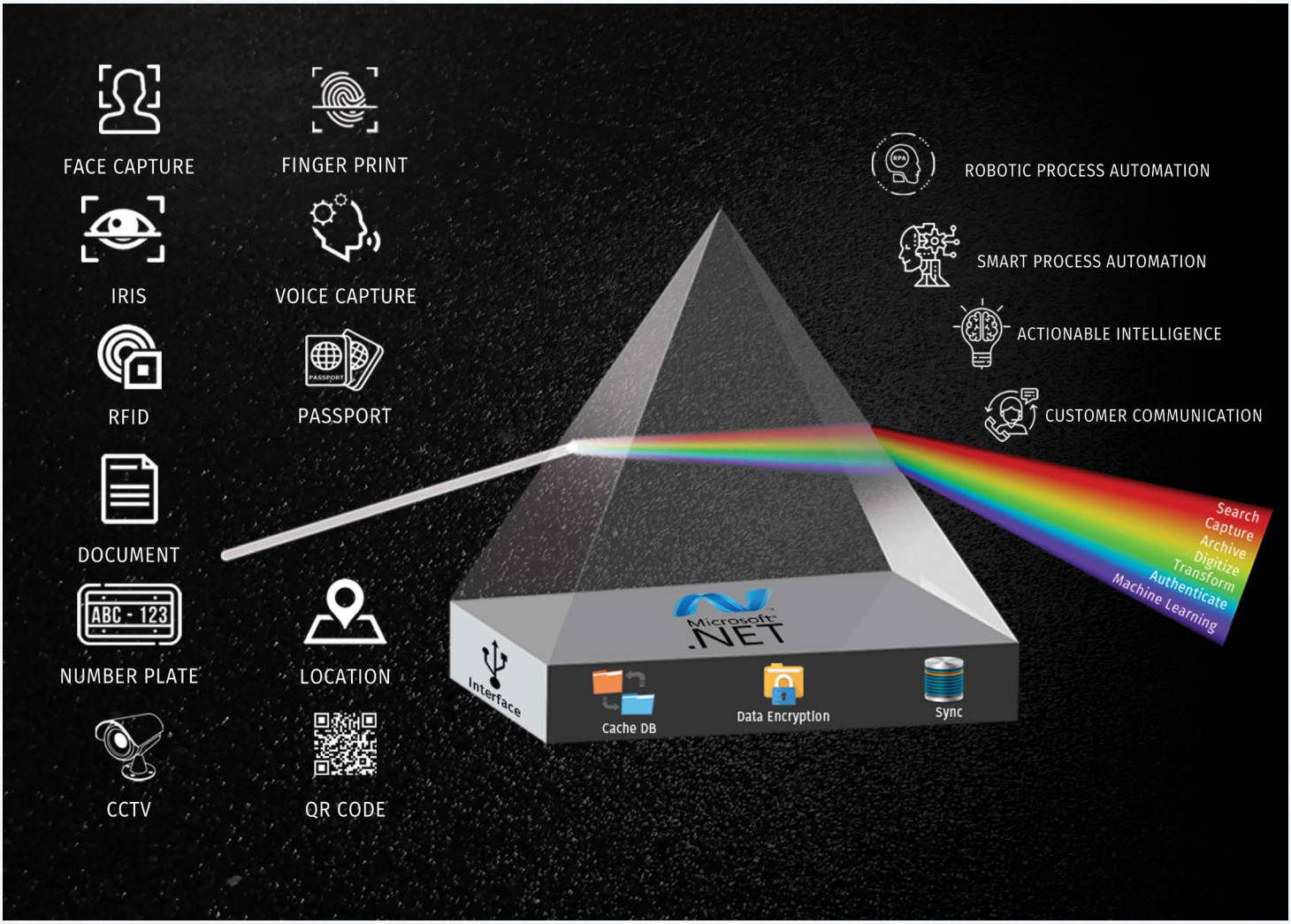
CID Framework



The world is moving away from paper-based documents to electronic records. Due to the ease of generating identity records and lack of sufficient verification or validation during data entry processes, duplicate and false identity records become quite common in electronic systems.

Biometric-based Access Control Solutions are proving to be the new way to address security problems are solved at entry/exit at large campus and multi- stored building. As more advanced ID documents are produced, it is impossible for humans to identify or verify the fakes from originals.

Kvaliteta has achieved a new level of price performance by delivering the industry's first affordable Capture Identify Deduplication (CiD) utilizing Windows platforms and an open operational and development architecture without sacrificing speed or accuracy.

The unique feature is the support of high-speed document scanners and building advanced data capture systems to reach the economy of scale required for large volume backlog scanning projects.

More support for portable verification using smart phone cameras thus eliminating the need for expensive biometric hardware.

Our CiD Framework extracts biometric and alphanumeric data contained in an identity document to authenticate it by applying 50+ forensic document-specific tests and utilizing the industry's largest document library (supporting 200+ countries). Working in real time, it eliminates manual screening errors, speeds up the document inspection process and significantly reducing employee training, operating costs and customer inconvenience.

Multimodal Biometrics

Multi-modal biometrics Module is used to capture, identify and verify the human's biometrics like Fingerprint, Iris and Face using one or multiple biometrics capture devices and Recognition Engines. Multiple biometrics capture will help in the accuracy of the identified features to ensure the success of a multi-modal biometrics module for human identification and verification.

This will help you to reduce the data distortion by lowering the False Reject Rate. In cases where the quality of a one biometric sample like Fingerprint is unacceptable, the other biometric Components like Iris can be used for the Identification.

Fingerprint Recognition Engine

The Fingerprint Recognition Engine is used for high-speed 1:1 and 1: N matching utilizing proprietary fingerprint templates. This Fingerprint Recognition Engine is unparalleled in speed, performance and accuracy, offering quick and easy integration in the field.

The fingerprint Recognition Engine matching algorithm can equally perform a high-speed identification search. Identification can be seen as a generalization of verification; the goal of an identification process is to find a person in a database containing multiple identities (1: N search). The database size can be variable – from a few hundreds to tens of millions of templates can be stored in the database depending on the application.

Face Recognition Engine

Face Recognition Engine is a high-speed real-time ICAO/ISO compliant checking solution for static and streamed image content. It offers a full-fledged software toolbox assuring high-quality output for your facial image analysis and enrolment solutions, and the generation of photos suitable for facial recognition.

While processing an image stream, the Face Recognition Engine enables to detect face(s) in the images based on preset parameters (e.g. Minimal/ maximal eye distance), evaluate the pertinent characteristics and extract the chosen frames for further processing.

IRIS Recognition Engine

The IRIS Recognition Engine extracts and adds an IRIS template to an initialized user structure. This allows adding multiple irises to one user thus associating more iris images issued from the same iris to the same user.

It helps to improve the recognition accuracy, useful for multi- iris matching/identification.

The accuracy of the Iris Recognition enables to balance False Acceptance Rate and False Rejection Rate, and adjust the threshold value of the variance rates (hamming distance). In the authentication process, it calculates the variance rates (hamming distance) when both iris codes are compared. Its mechanism determines accept or deny by setting up a certain threshold value on its variance rates (hamming distance).

Document Authentication

Document Authentication patented technology extracts biometric and alphanumeric data contained in an identity document to authenticate it by applying 50+ forensic document-specific tests and utilizing the industry's largest document library (supporting 200+ countries).

This system classifies and authenticates documents without operator intervention by utilizing its internal knowledge base, which includes identification and authentication criteria for various Documents and the vast majority of the world's passports - even if the items do not comply with international standards for machine-readable documents. The knowledge base also includes document characteristics for numerous other government- and state-issued IDs and visas.

Barcode Generator

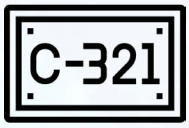
This invaluable solution of Barcode Generator enables you to print barcodes on demand without the need for dedicated barcode generators.

Barcode support is built-in to many Printer/MFC machines. Straight away, you can print barcodes of any size, in any direction, with text and built in checksum error digit correction. The following Barcodes standard can be printed directly from Brother Machines.

BI & Reporting Services

SQL Server Reporting Services is a solution that customers deploy on their own premises for creating, publishing, and managing reports, then delivering them to the right users in different ways, whether that's viewing them in web browser, on their mobile device, or as an email in their in-box.

Number Plate Recognition Engine



The engine is designed to read all vehicle license plate types at any traffic speed. Security, parking or access control and many other systems can benefit from the fast, exact, automatic identification and recognition capabilities of this ANPR engine.

ANPR reads license plates from many image sources remarkably fast and with the highest recognition accuracy in its class. It offers country-independent recognition in Latin, Arabic, Cyrillic, Chinese, Korean, Thai characters and more, as well as reflective, nonreflective, personalized and special interest plates. It is straightforward to use with any hardware, compatible with any image source (analog/digital/still images/MJPEG video streams) and supports both Windows and Linux platforms.

Machine Readable Travel Documents

This software contains 3 sets of tools:

- Automatic image processing functions – cropping, face photo cutout, rotation, reflection removal & Adaptive Light Control.
- Data reading tools – standard MRZ as well as 1D and 2D bar codes, and extended RFID reading functionality.
- Authentication of standardized safety features -MRZ consistency check, B900 ink check, UV dullness check and various printed/digital crosscheck functions.