



Facelt® Quality Assessment SDK

Includes Standards Formatting Module

The Facelt® Quality Assessment SDK delivers:

- Reduced processing times and greater ease-of-use
- Higher throughput at inspection points
- Interoperability and compliance with international standards and legislative requirements
- Higher database integrity
- Higher facial recognition performance

Educated government and commercial users of biometrics today understand the relationship between high quality enrollment images and accurate facial matching performance. They are also driven by requirements to comply with international standards and the need to implement solutions that will not impede their operations workflow. Integrators that are able to deliver these types of high-performance solutions will be better positioned to meet end-user demands.

The Facelt® Quality Assessment SDK with Standards Formatting Module makes this task easy and may help lower development costs. There is no need to understand image quality parameters or standards formatting requirements, since all the functions are encapsulated in simple COM, and ActiveX interfaces.

Highly accurate face finding technology coupled with image quality checks that go beyond minimum standards, help to maximize the integrity of image capture data. Real-time feedback capabilities make live capture and automated enrollment faster and more efficient. No more manual checking or cropping, wondering whether the captured images

are suitable for automated facial recognition tasks. The Standards Formatting Module writes to multiple data interchange formats using best practices compression techniques, ensuring compliance with global requirements for interoperability.

And, by working with the co-authors of these standards, you can rest assured knowing that they are being implemented properly

QUALITY ASSESSMENT

- Accurate eye-locating algorithms
- Automated, hands-off capture
- Real-time feedback capability

EASY INTEGRATION

- Supports reading and writing the CBEFF Patron Formats A, C (BioAPI) and D (ICAO) with both ISO and ANSI data interchange files.
- Includes C, COM, and ActiveX interfaces

Facelt® Quality Assessment SDK Components

Multimedia SDK

A COM object and an ActiveX control for image display and read/write/save. The ActiveX control contains a useful face marking display interface.

Face Finding and Quality Evaluation Object

Designed to find faces in static images with 8-bit grayscale or 24-bit RGB. The quality parameters supported include: resolution, head cropping, position of face in the image, brightness, exposure, contrast, blurriness, glare, presence of glasses, or other obstruction and pose estimation.

Sample Application

A sample face quality assessment application written in Visual C++ is provided. This fully functional application can automatically evaluate a set of images and generate statistics on the different facial quality metrics. All technology is encapsulated as COM libraries and ActiveX components for compatibility with Microsoft Visual C++, Microsoft Visual Basic, Microsoft C#, and Borland Delphi. Compatible with Microsoft Video for Windows (VfW) capture systems. Supports frame capture from .avi and .mpeg files.

Components of this SDK are also built into the ABIS® system.

Standards Formatting Module Components

CBEFF Format Support API Supports CBEFF Patron Formats A, C, D,

Biometric Data Block Support API Supports ISO and ANSI biometric data blocks, which contain a facial image and information about the image like gender, eye color, hair color, and expression.

Standards Formatting COM Objects Provide the ability to read, write, and delete biometric data blocks and sample images.

Sample Application

System Requirements

Microsoft Windows 98/2000/XP/2003

Develop with either Microsoft Visual C++ 6.0 or above, Microsoft Visual Basic 5.0 or above, Borland Delphi 5.0 or above

Intel Pentium III compatible or higher

128 MB RAM minimum

200 MB free disk space

CD-ROM drive for installation

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