

FaceVACS-PortraitAcquisition simplifies the process of taking standards-compliant portraits for ID documents while delivering high-quality facial images for future face recognition. The application supports supervised and self-service operation.

Intelligent capture

Supported process

- taking digital portrait photographs manually or automatically
- continuous scene analysis to determine optimal time to take photo:
 - person is fully visible
 - eyes are fully visible
 - person is not moving
- automated cropping and downscaling of raw snapshots
- output of images to file system and integration environment

Fast and easy

- takes image of a single person in less than 1 minute
- simple equipment setup
- few components to arrange

Highly configurable

- all camera parameters such as rotation, exposure, resolution, flash, etc.
- process parameters such as eye distance, motion deviation, timeouts, etc.
- output image parameters such as format, size, image type (raw, full frontal, token frontal), file location

Portrait assessment

Supported process

- digital portrait photograph assessment visualized graphically
- performs acceptance tests according to ICAO / ISO 19794-5 and similar standards and best practices for full frontal images
- test results can be manually overridden
- configuration of custom quality assessment strategies
- gathering of case identifier and demographics
- links of personal details to facial image(s)
- operator can adjust eye annotations or other areas like chin, crown and ears
- operator can tag problem issues as passed

Portrait characteristics tests

- eye positions, head size and position
- pose deviations from frontal
- eyes are visible and open
- image exposure
- uniform lighting in the face region
- mouth is open
- gaze away from camera
- distance from camera
- face moving
- glasses, also tinted
- estimated age
- gender
- ethnicity

Integrator's kit

- designed for integration into existing FaceVACS-DBScan or FaceVACS-VideoScan systems using Add Case web services SOAP protocol
- processes acquisition requests issued by an integration environment via web services (acquisition request protocol, SOAP)
- export in JPG, J2K, PNG, or XFD formats into a file system directory for access by other programs
- export to integration environment via web services
- ActiveX component implementing an interactive self-service acquisition process allows smooth integration into kiosk applications

Technical facts

Operating system

- Windows XP
- Windows 7
- requires 800 x 600 or greater display resolution

Supported image sources

- digital SLR cameras Nikon D5000, Canon Rebel XS (EOS 1000D), T3 (EOS 1100D)
- HTTP cameras
- UEye Cameras from IDS Imaging
- DirectShow devices

Language support

- English
- other languages on request

Disclaimer

Portrait characteristics are determined using heuristic pattern recognition methods. As for any pattern recognition, 100% accuracy is impossible. Customers need to consider the remaining uncertainty and can cover it operationally to a certain degree.