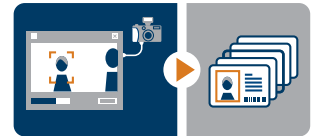
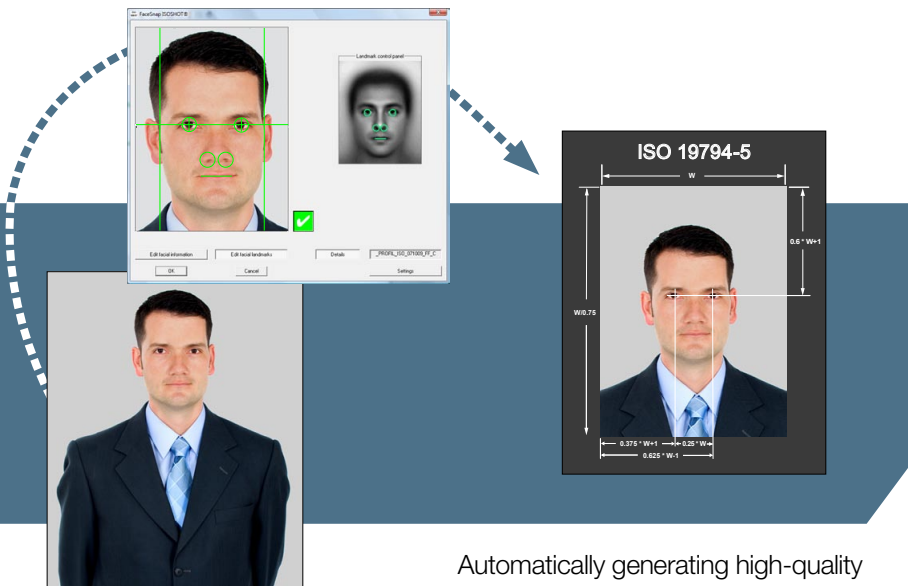


## PRODUCTS

# FaceSnap<sup>®</sup> IsoShot<sup>®</sup>

## Biometric Portrait Capture Solution

Facial Detection and Quality Assessment Software  
for ISO 19794-5 Compliant Portraits



### Application Environments

- e-Passports
- ID documents
- Visas
- Travel documents

Automatically generating high-quality portraits for use in biometric identity solutions is easy with FaceSnap<sup>®</sup> IsoShot<sup>®</sup>. Optimized for e-passport, visa and other identification programs, the intuitive and easy-to-use solution:

- Uses facial detection technology to automatically generate standardized portraits from digital cameras or image files
- Captures live images through remote camera control
- Instantly enhances and resizes images

- Configures camera and facial image cropping settings.

The package also includes a quality assessment tool to ensure that images comply with the ISO 19794-5 standard. The solution:

- Automatically assesses ISO quality criteria
- Contains pre-defined quality profiles and enables individual configuration of quality profiles
- Facilitates individual choice of quality criteria
- Includes an adjustable threshold for each quality criterion.

# FaceSnap® IsoShot®

## Specifications

- Supports remote control camera settings for a range of Canon digital cameras (other digital cameras included on request)
- Includes pre-defined ISO 19794-5 profiles, including full frontal and token images
- Allows manual definition of quality criteria

## Operating system requirements

- Runs on Windows XP operating system

## System components

- Stand-alone version includes FaceSnap FotoShot server and FaceSnap IsoShot application
- SDK version includes FaceSnap FotoShot server and IsoShot API

## Quality criteria

### Background

- Background and foreground separation
- Homogenous background
- ISO-compliant gray value

### Expression

- Eyes open
- Mouth closed

### Geometry

- Horizontal head position
- Vertical head position
- Eye distance
- Correct image size (width and height)
- Ratio of image width to image height

### Glasses

- Reflection on the lenses of the glasses
- Glasses with heavy frames
- Sunglasses

## Head Rotation

- X-Axis
- Y-Axis
- Z-Axis

## Imaging

- Sharpness
- Red-eye effect
- Grayscale facial profile
- Grayscale image profile
- Color space
- Contrast
- Brightness

FaceSnap IsoShot is part of the Cross Match Facial Recognition product suite.

## Workflow

### Step One: Acquire Images

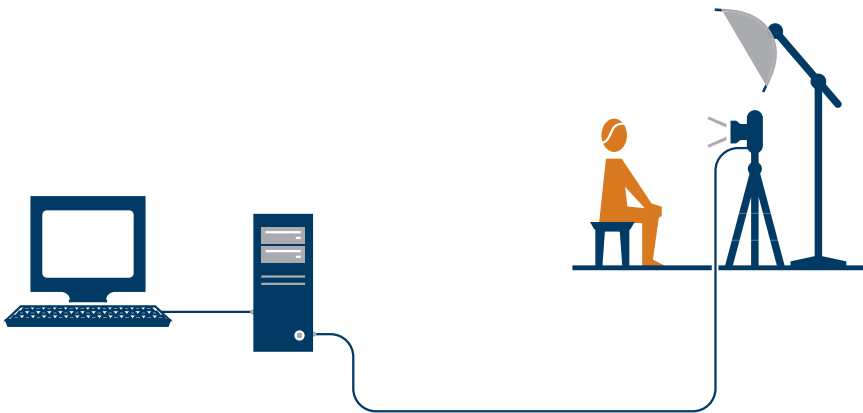
Capture portraits with a digital camera or use image files; automatically detect, crop, resize and enhance facial images

### Step Two: Assess Images per the ISO 19794-5 Standard

Automatically set facial landmarks to adjust image geometry; instantly assess pre-defined quality criteria and receive clear and immediate feedback on acceptance

### Step Three: Personalize Images

Add information to portraits according to ISO 19794-5 property mask; store full-frontal or token images in JPEG or JPEG 2000 format



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