Face Photo Capture For Remote Renewal of Official IDs

Liveness-proven ICAO & ISO Compliant Image Output

May 4th, 2025

FaceTec has released a feature that outputs compliant Face images for use in the printing of official Photo ID documents. Designed for remote ID renewal scenarios, the feature proves the liveness of the user and then verifies the high-resolution image meets the requirements of ICAO 9303 and ISO 29794-5 Information Technology — Biometric sample quality — Part 5: Face image data.

FaceTec's 3D FaceScan software is used over 3.5 billion times annually and is widely recognized as the most universally secure and accurate 3D:3D & 3D:2D Remote Face Verification software in the world.

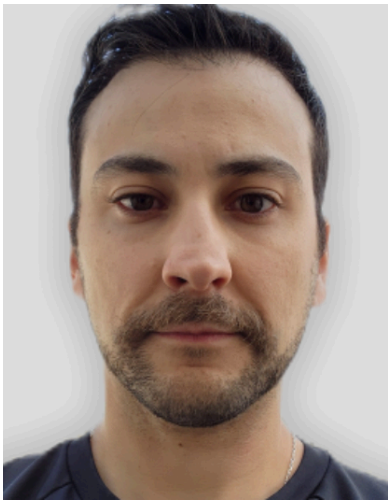
FaceTec's software detects image quality in real-time ensuring that only compliant images are output. Real-world usage and NIST-certified lab testing prove that FaceTec is unbiased and low-friction.

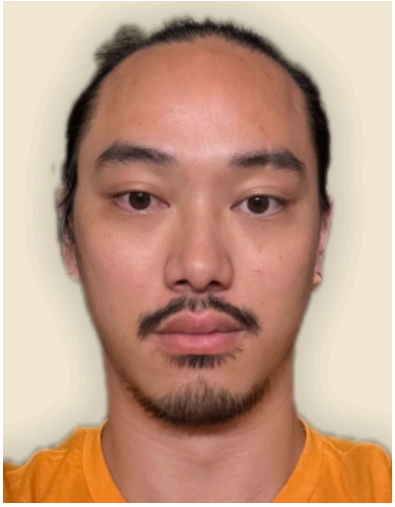
Examples: Face images collected in real-world locations





Examples: Face images ready to print on Official ID documents (Full Resolution = 413 × 531)





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Face Images Are Screened for Compliance Before They Are Output

The table below shows how FaceTec's software addresses the NIST Face Analysis Technology Evaluation Part 11: Face Image Quality Vector Assessment Specific Image Defect Detection quality measures (NIST IR 8485). These checks are performed in real-time to ensure image quality.

NIST FATE Measurements	FaceTec Checks	Details & Notes
TotalFacesPresent	Yes	One face allowed
SubjectPosePitch	Yes	Limits can be set
SubjectPoseYaw	Yes	Limits can be set
SubjectPoseRoll	Yes	Limits can be set
EyesOpen	Yes	Must be open
InterEyeDistance	Yes	Simple measurement
Resolution	Yes	Simple measurement
MouthOpen	Yes	No Teeth Showing
BackgroundUniformity	Yes	Removed & replaced with any color
Underexposure	Yes	Session Rejected, User Retries
Overexposure	Yes	Session Rejected, User Retries
PixelsFromEyeToLeftEdge	Yes	Simple measurement
PixelsFromEyeToRightEdge	Yes	Simple measurement
PixelsFromEyesToTop	Yes	Simple measurement
PixelsFromEyesToBottom	Yes	Simple measurement
EyeGlassesPresent	Yes	Detected with Settings
SunGlassesPresent	Yes	Removal guidance shown/stated
CompressionArtifacts	Yes	Part of Anti-spoofing/security
FaceOcclusion	Yes	Part of Liveness Checks
MotionBlur	Yes	Part of Anti-spoofing/security
UnifiedQualityScore	Yes	Can be calculated if required
Face Lighting Even	Yes	Checks ensure uniformity
Headwear Present	Yes	Checks with Settings
Religious Headwear	Yes	Checks with Settings

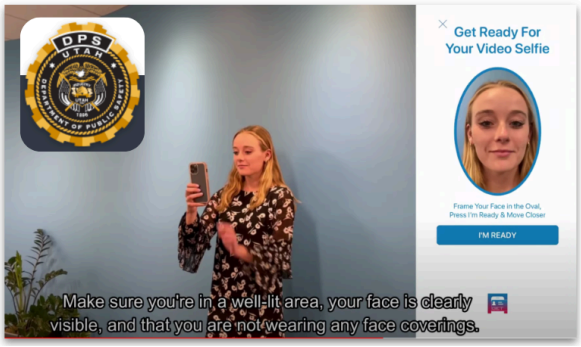
Image Output Resolution: 413 × 531 pixels (The ICAO recommended size)

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FaceTec provides face biometrics software for five US Mobile Driver Licenses (mDLs).

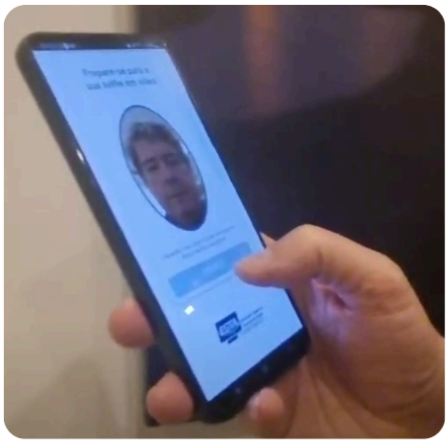


Colorado - www.youtube.com/watch?v=N8MqNL1_7Uo



Utah - youtu.be/Gx1Hh2xwOYQ?t=52

FaceTec's User Interface features text & audio real-time guidance/feedback (any language), ensuring the user is properly positioned for compliant capture. Guidance: www.youtube.com/watch?v=xTIY-9QZCFQ



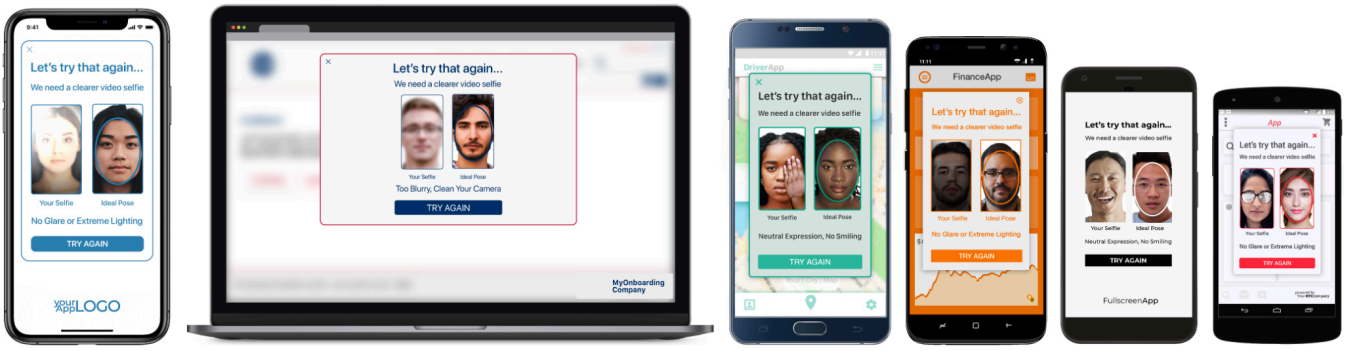
ESTA Electronic System for Travel Authorization
U.S. Department of Homeland Security

Homeland Security

U.S. Customs and Border Protection

FaceTec's 3D software is used many millions of times a year in the ESTA Mobile App and has undergone comprehensive security testing by DHS itself. See launch article: FindBiometrics

User guidance such as "Neutral Expression - No Smiling & "No Sunglasses" are already standard.



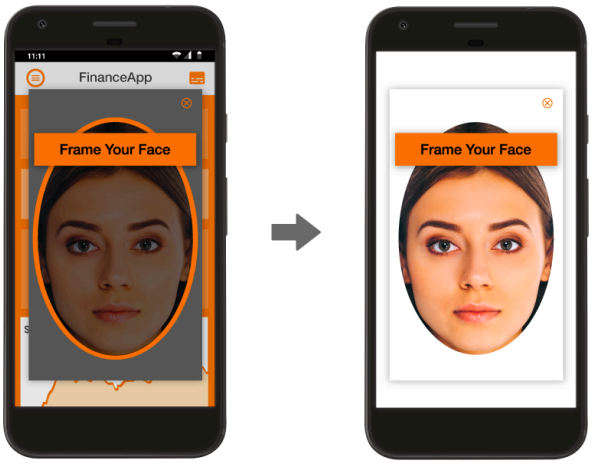
The FaceTec collection interface is customizable for colors, fonts, icons, text, backgrounds, and more.

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Additional Image Quality-Enhancing Features

Low Light Mode:

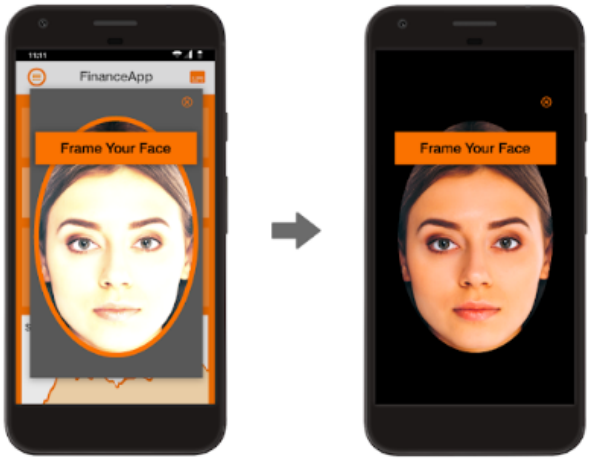
FaceTec SDKs detect when the User is in a low-light environment and use the Device APIs to brighten the screen and transition the FaceTec Frame and Outer Overlay colors to white. This will properly illuminate the User's face and improve accuracy and success rates.



Low Light Mode dramatically improves image capture quality.

Dynamic Dimming Mode:

FaceTec's software detects when the User is in a bright-light environment and uses the Device APIs to darken the screen and transition the FaceTec Frame and Outer Overlay colors to black. This will properly dim the User's face and improve accuracy and success rates.



Dynamic dimming dramatically improves image capture quality.

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FaceTec's Unique Security Benefits:

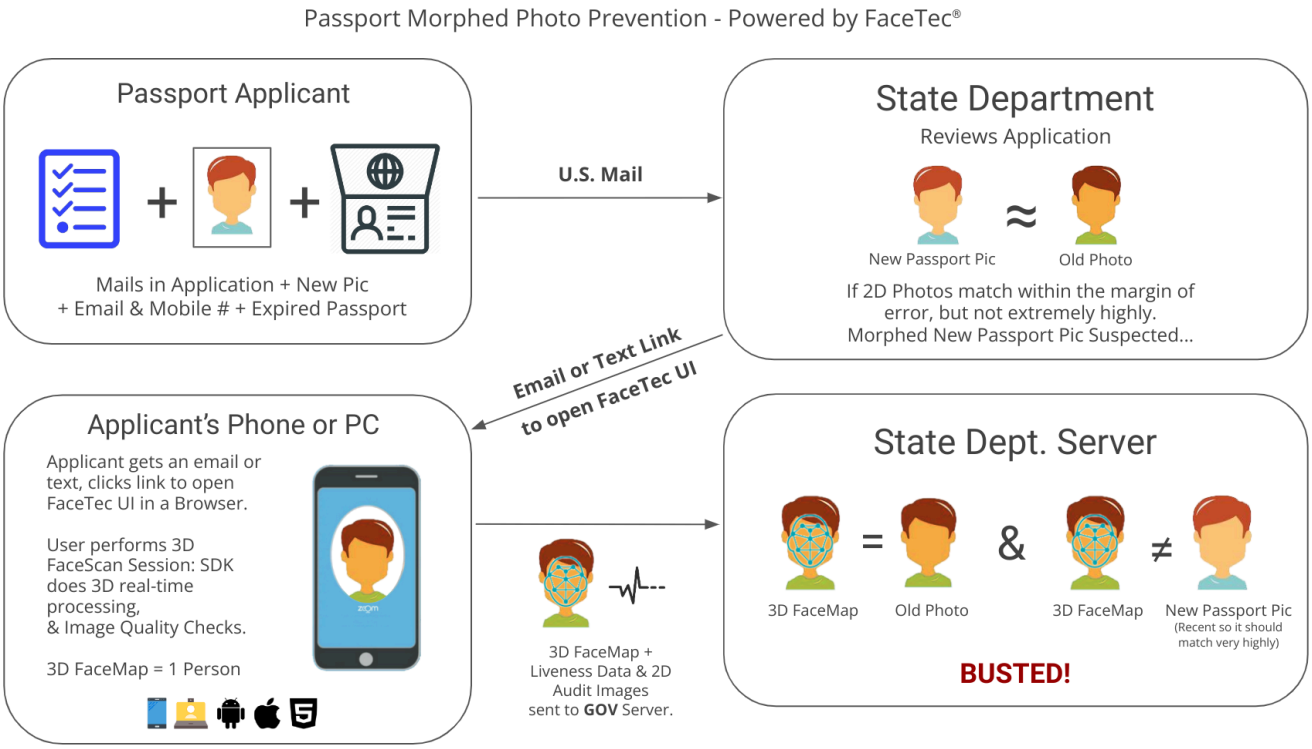
Camera Security & 3D Liveness Checks ensure the user is a live, physically present human. No spoofs or videos will be accepted.

Morphed photos cannot be processed because they will fail the 3D Liveness Checks:



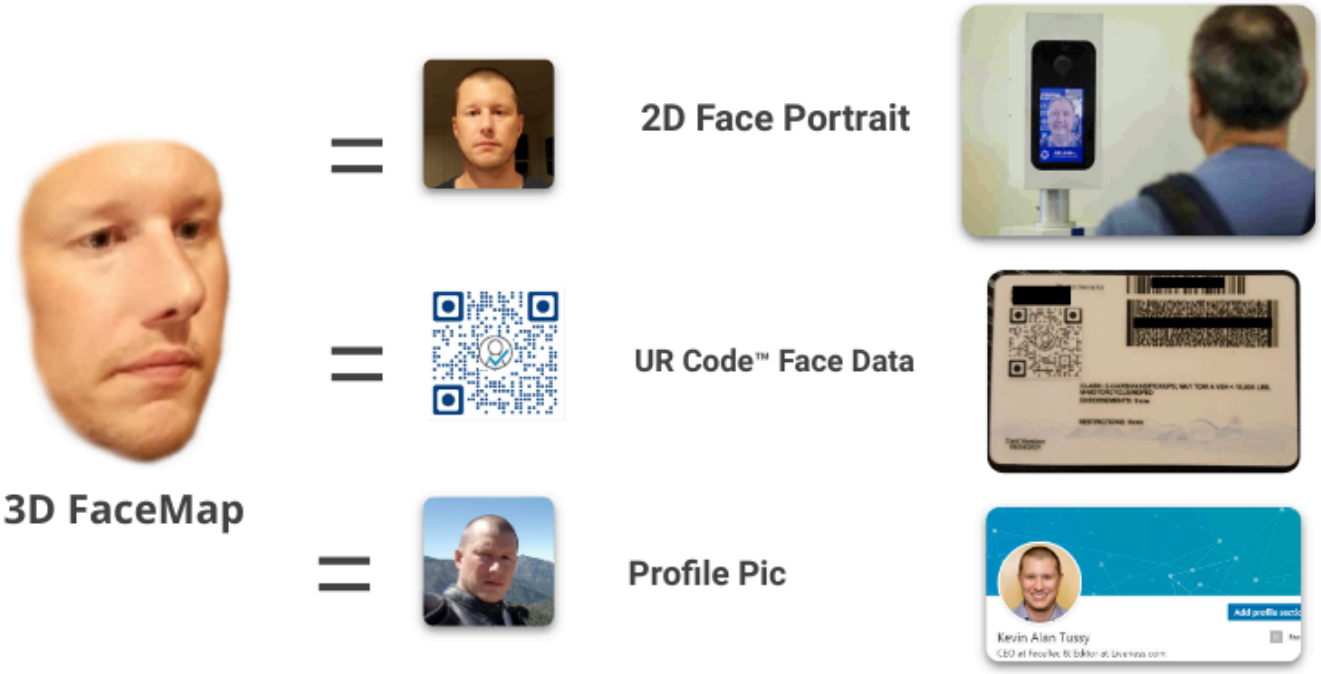
Morphed/Edited Photos are Blocked.

Browser & Mobile Browser links to UI enable live checks of any suspicious photos mailed in:



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3D FaceMaps Match Highly to 2D Photos



BixeLab

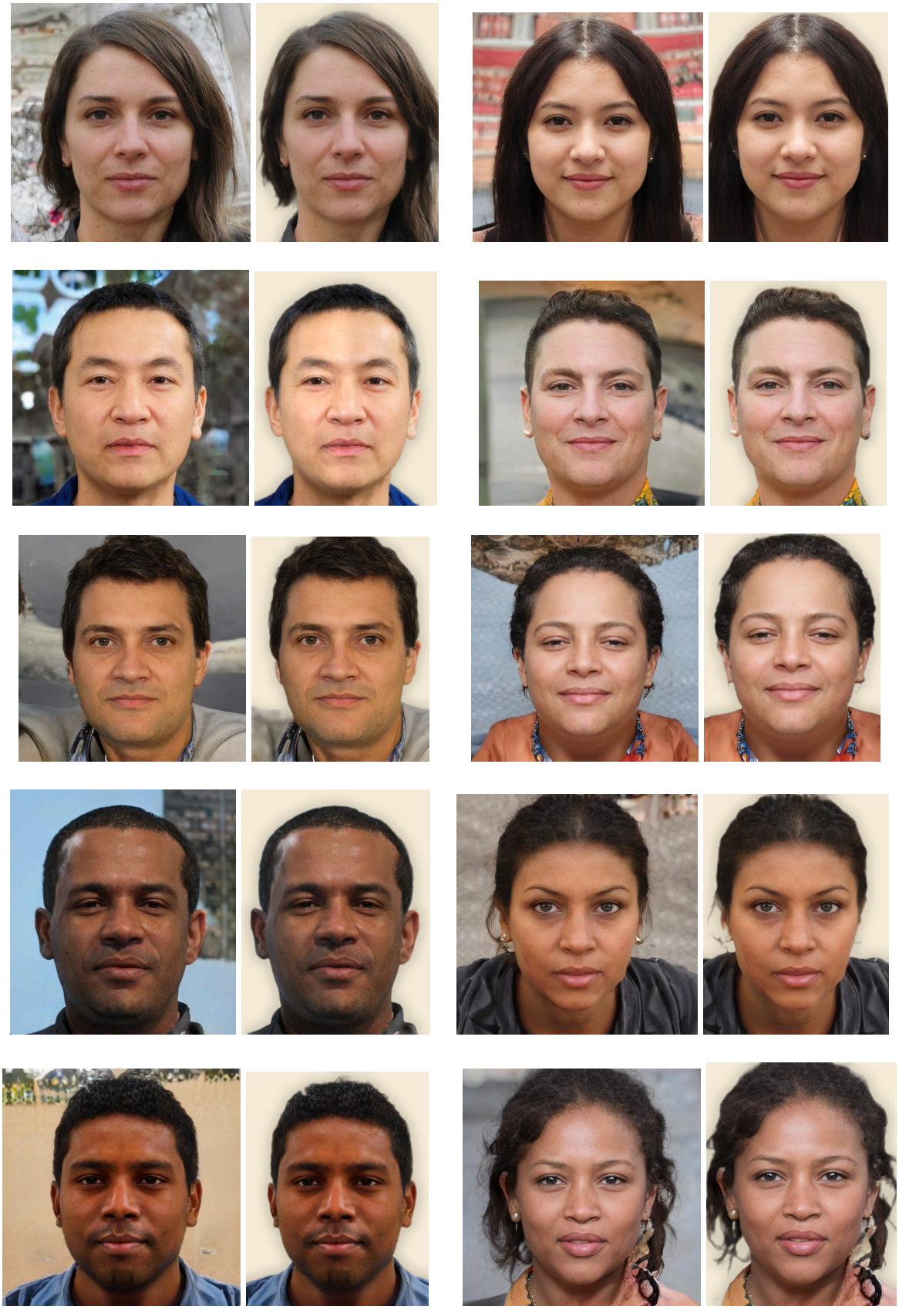
NIST-Accredited Testing Lab

- In 2023 BixeLab evaluated FaceTec's 3D:2D face-matching.
- Over 1,000 live participants used FaceTec to capture a 3D FaceMap (selfie), and that was compared to a 2D image retrieved from their e-Passport chip.
- Results: at 1% False Reject Rate, the FaceTec 3D:2D Face Matcher had a False Accept Rate of <1/100,000.
- The results: No Errors (Bias) related to race, ethnicity, gender, skin tone, or age.

Test Report: FaceTec.com/FaceTec_BixeLab_3D-2D_Test_Report_Final_v2.1.pdf

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Additional Examples:



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