



10 March 2026

To whom it may concern,

iBeta Quality Assurance conducted Presentation Attack Detection (PAD) testing in accordance with ISO/IEC 30107-3. iBeta is accredited by NIST/NVLAP (NVLAP Lab Code: 200962) to test and provide results to this PAD standard ([certificate and scope](#) may be downloaded from the NVLAP website).

This testing was conducted with Guangzhou Pixel Solutions Co., Ltd.'s Pixel Face Liveness v2.0 Plus (pfl-plus-2.0) application installed on an Apple iPhone 15 Pro Max running iOS 26.1. iBeta conducted passive liveness testing from 17 February to 10 March 2026.

Testing was conducted in accordance with the contract for a level of spoofing technique that only utilized mid-level methods to create an artefact of the genuine biometric for use in the presentation attack. The subjects for the test effort were cooperative – meaning that they were willing and able to provide any and all biometric samples, including high quality biometric facial samples. The test time for each PAD test per Presentation Attack Instrument (PAI) was limited to 24 hours. This is considered a Level 2 PAD test effort (second of three levels).

The test method was to apply 1 bona fide subject presentation that alternated with 3 artefact presentations such that the presentation of each species consisted of 150 Presentation Attacks (PAs) and 50 bona fide presentations, or until 24 hours had passed. The results were displayed for the tester on the device as “Passed” for a successful attempt or “Failed” for an unsuccessful attempt.

iBeta was not able to gain a liveness classification with the presentation attacks (PAs) on Guangzhou Pixel Solutions' Pixel Face Liveness v2.0 Plus (pfl-plus-2.0) application over a total of 750 attacks, resulting in an Attack Presentation Classification Error Rate (APCER) of 0%. The Bona Fide Presentation Classification Error Rate (BPCER) was also calculated and may be found in the final report.

Guangzhou Pixel Solutions' Pixel Face Liveness v2.0 Plus (pfl-plus-2.0) application, installed on an Apple iPhone 15 Pro Max running iOS 26.1, was tested by iBeta to the ISO 30107-3 Biometric Presentation Attack Detection Standard and found to be in compliance with Level 2.

Best regards,

A handwritten signature in black ink, appearing to read "Ryan Borgstrom".

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