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BixeLab

Biometrics Identity Experience & Evaluation Laboratory

Letter of Confirmation

Issued to MANTRA SOFTECH INDIA PVT LTD

for the test report issued on the 3rd of August 2026 for

ISO/IEC 30107-3 Compliant Presentation Attack Detection Level 1 Evaluation of

MORPHS Optical Fingerprint Scanner – item under test (IUT)

To whom it may concern,

BixeLab (NVLAP Lab Code: 600301-0) is accredited by the NIST administered **National Voluntary Laboratory Accreditation Program (NVLAP)** to ISO/IEC 17025:2017, for specific services listed on the Scope of Accreditation for Biometrics Testing (certificate and scope may be downloaded from the NVLAP website).

Between 10th to 22nd June 2026, BixeLab conducted an independent biometric presentation attack detection (PAD) evaluation of the Item Under Test (IUT). MANTRA SOFTECH INDIA PVT LTD supplied BixeLab with two contact-based slap-scanner devices and the associated software, Morfin Enroll SDK v1.0.

The PAD evaluation was completed at Level 1 sophistication within a secure laboratory testing environment using 6 Level A Presentation Attack Instrument (PAI) species for the contact-based fingerprint modality. These PAIs were derived from 10 unique and consenting test subjects. A total of 300 presentation attack transactions were conducted for the evaluation. Additionally, 50 bona fide presentation transactions were conducted across the 10 test subjects. The following metrics were measured based on the completed testing:

1. **Attack Presentation Classification Error Rate (APCER)**
    a. 0 classification errors were observed across the 300 Level 1 presentation attacks,
2. **Bona fide Presentation Classification Error Rate (BPCER)**
    b. 0 classification errors were observed across 50 bona fide slap presentations

A detailed test and analysis report was generated to support the findings. For the associated Attack Presentation Non-Response Rate (APNRR) and Bona fide Presentation Non-Response Rate (BPNRR) metrics for each attack type tested, please refer to the test report [*26_BXL059.1_TR_03*]

This letter confirms that the IUT – MORPHS Optical Fingerprint Scanner - Item under test (IUT) was tested according to the applicable ISO/IEC 30107-3 specifications for Presentation Attack Detection testing and reporting and was tested in compliance with Level 1.

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NOTE: BixeLab shall not be held liable for any interpretations, decisions, or actions based on the information contained in this confirmation letter. BixeLab does not certify or make any claims regarding the performance of the IUT outside of the described context in this letter.