Title: ME-Group and Photo-Me, the global leader in photo booth capture, has announced that its liveness detection technology has been evaluated compliant to international Biometrics Presentation Attack Detection standards (ISO/IEC 30107-3) by the French Laboratory Cabinet Louis Reynaud Labs (CLR Labs).

This evaluation is a key achievement that demonstrates the ability of the **ME-Group** photo booth capture to detect the potential biometrics presentation attacks.

The tests were realised in September 2021 and include several thousands presentations of attacks performed from the biometric data of real subjects over a wide demographic range (gender, age).

All presentation attacks were detected by the liveness detection system during the entire evaluation period, which means according to ISO /IEC JTC1 SC37-30107-3 terminology, an APCER of 0%.

Preventing these presentation attacks is an essential process to mitigate the risk of creating a real "fake" official identity document. One of the main attack methods from the attacker is to present a picture or a screen of a morphed picture. Morphed pictures allow two different persons to be matched at the automatic border control against the picture printed or stored in the chip of an official travel document.

"The morphing presentation attacks are at the top of the political European agenda. The European Commission is preparing its electronic passport legislation update to introduce the upcoming European standard published by the CEN/CENELEC called '' European Enrolment Guide for Biometric ID Documents'' **Said Stéfane Mouille Director of the CLR Labs.** *"We are honoured and proud that **ME-Group** has selected our laboratory to perform this evaluation"* **complemented Stéfane Mouille**.

The European Enrolment Guide for biometric ID Document requires that the liveness detection process must be performed during the photo capture.

"The ME-Group liveness detection has been specially designed for the high controlled lighting environment of the photo booth. The purpose of this system is to offer a smart experience to the end user by using the convenient smart passive liveness detection mode that doesn't require any action from the end user" **Said Christian Croll, Biometric and 3D Expert at ME-Group.**

In less than half a second, the **ME-Group** liveness detection performs a 3D capture of the biometric data in order to confirm that no presentation attack has been implemented. In parallel of this process, a complementary high-quality ICAO-compliant portrait capture is performed which guaranties with no ambiguity that the subject's biometric data were not changed during the liveness detection sequence. This system offers at the same time a very low BPCER (i.e. low false rejection) in order to give a better experience to every end user, even if not familiar with the digitalisation. This system is in particular very robust to all complex famous Deepfake videos whose goal is to simulate a real human person.

This innovative and robust liveness detection system with patent pending has been designed by **ME-Group**, in its innovation centre located in the French Tech district of the Alpes in Grenoble.

Since several years, Me-Group (**ME-Group.com)** and its worldwide subsidiaries have an active participation in several European and international standards, by being editor and co-editor on biometric 2D and 3D face standards. In 2018, ME-Group has developed a face acquisition bench for ISO organisation to analyse distance influence on face matching algorithms.

ME-Group is a prominent international player in the photo booth and integrated biometric identification solutions market, with an established network of more than 28,000 photo booths offering market-leading photographic quality and technology across 18 countries.

ME-Group hold patents on photobooth technology for the optimization of perfect diffuse and ICAO compliant illumination like for photographic studio and has designed dedicated camera and image processing to achieve a high level of quality and reproducibility of ICAO portraits. ME-Group has developed also advanced patented technology for 3D portraits acquisitions to anticipate high performance of face recognition and liveness detection.

All this expertise has been designed into the preparation of the next generation of high level of electronic authentication requested by PVID defined by ANSSI, by e-IDAS and by the European digital ID wallet.

Our photo booth estate is supported, maintained and upgraded by our 650-strong network of skilled field engineers, and monitored 24/7 by interconnected remote telemetry.

ME-Group provides solutions to corporates and institutions seeking to improve and digitalise security ID to combat fraud and security threats. We also have agreements in place with governments for the direct and secure upload of photographs from our photo booths to their servers for issuing official identity documents.

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