

MELCHIOR Project: rapid detection of illicit objects hidden on people

INTA HOSTS MELCHIOR PROJECT'S AI TRAINING AND TESTING PLAN

Press Release



02'Oct.'25.- During the month of July and August 2025, the **Plan for AI training and Testing of the MELCHIOR Project** was carried out at **National Institute of Aerospace Technology (INTA)**, located in Madrid, Spain.

The test consisted in the evaluation of the global performance of the prototype and its subsystems by means of a runlist with a statistical mix of inputs (gender, body mass index, body zone, threads...) and tests on the **MELCHIOR** system. All of it, focused on results' getting —in terms of false alarms rate and hits for each run—. Specially, about generating an output with the performance of the equipment, in a way that an evaluation for each input was included.

The aim of this project was to demonstrate its efficiency in an operational environment of detection concealed objects on people body's inside.

ABOUT MELCHIOR PROJECT

MELCHIOR Project is intended to substantially improve a novel technology for the rapid detection of drugs, explosives, weapons and illicit objects hidden on individuals and in critical cavities of the human body. The project is based on infrasonic mechanical impedance search, optionally complemented with other innocuous and non-contact technologies.

MORE INFORMATION

LinkedIn Profile: <https://www.linkedin.com/in/melchior-project-818486248/>

X (Twitter) Profile: <https://twitter.com/MelchiorProject>

