

cetecom advanced's CROSS TEST BENCH

AUTOMATED TESTING OF CONTACTLESS PAYMENT SYSTEMS WITH HIGH RELIABILITY AND GOOD INTEGRATION TO EXISTING TEST PROCESSES.

Introducing the latest innovation at **cetecom advanced's** Smart Card Testing Center: The Cross Test Bench. This new development performs the automated testing of contactless payment systems, that makes it possible to test terminal devices against a big pool of reference card samples. Consequently, it enables different test setups to ensure a reliable automation of various interoperability test procedures.

The Bench is based on an industrial robot with the following key features:

The robot can be mounted on one of our sockets which do not interfere with the test sample table to prevent vibrations. The easiest way to fix the socket is to bolt it on the floor. In addition, a second solution with heavy metal plates is also available.

The base product consists of:

- Robot Manipulator
- Control Software

Many additional features and accessories available

The robot system is supported by many accessories to automate the test procedure.

- Fully automated testing according to Visa Cross Test Specification
- IRB1200 6 axis Industrial Robot
- Support of three devices under test in one automated test session
- Card dispenser that can handle up to 500 test cards per unit (flexible count of dispenser)
- Products are sorted according to the test result for manual investigation
- The system provides and uses a lot of automation features like Visa VCAS, external script automation or sound detection
- High positioning accuracy and reproducible testing
- integrated management of hundreds of test results, also exportable to the Visa required formats
- IRB1200 is very flexible and has resources for future applications



Test Software

The robot's movements are controlled by an universal test software. The software contains a database where the terminal dependent settings are stored. This includes timing values for test cases, sound detection settings and reference sounds, landing plane positions and so on. The operator can select one terminal that is currently mounted on the bench and start selected test cases. Besides the automated testing, the robot can be controlled manually.

ABOUT CETECOM ADVANCED

The major features of **cetecom advanced** are testing and certification of electronic devices with most advanced telecommunication interfaces. **cetecom advanced GmbH** is versed in worldwide approval procedures and applies them professionally for a quick and independent homologation of their customers' devices - no matter what industry they belong to. Measurements of radio interfaces, electromagnetic compatibility as well as electrical safety in labs accredited according to ISO 17025 provide the essential fundament of certification.

In **cetecom advanced's** environmental simulation labs products are being tested to verify their robustness towards environmental impact. They are even subjected to destructive examinations, e.g. during safety tests of batteries.

cetecom advanced's labs for "payment & identification" test and certify devices for cashless payment transactions, like credit cards and card readers, as well as ATMs on the basis of versatile accreditations in the banking sector.

The line-up of products tested in CTC advanced's accredited labs is broad and ranges from E-marking for subassemblies of vehicles to contactless credit cards and from hearing aids to MRI scanners.