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# TELEMAKOS AUTOMATIC TEST EQUIPMENT FOR TELEMATIC SYSTEMS



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## INFOTAINMENT SYSTEM

The automotive industry evolution in the recent years has seen an increasing use of electronics. In particular, the market of telematic systems is considerably growing as well as it is their technological development. These devices are conceived not only for the users entertainment, but also to guarantee the comfort, to help the mobility, to increase the safety and to provide real time interaction with other vehicles and the environment.

Due to the increasing complexity and importance that these telematic devices are gaining in today's mobility, it is crucial that their fundamental quality requirements are guaranteed when arriving to the final customer.

For this delicate task, Loccioni Mobility has created Telemakos, the Automated Testing Equipment (ATE) developed according to the product specific characteristics and studied **to perform customized testing sequences by stimulating the inputs, reading the outputs and simulating different operating conditions.**

For such purpose, Telemakos is designed to respect some requirements which cannot be ignored in this market context, such as:

- > **flexibility**  
to adjust the system to sudden changes in the automotive industry
- > **modularity**  
to ensure the expandability of the system against future needs
- > **maintainability**  
to guarantee an easy system management and fast maintenance

#### **MAIN CHARACTERISTICS**

Using specific instrumentation and dedicated protocols, Telemakos can efficiently generate all common radio, video and navigation broadcasting signals in use today:

- > **AM/FM**  
radio signal, analog and digital
- > **GSM**
- > **GPS**
- > **Bluetooth**
- > **Wi-Fi**  
with the possibility **to set the power levels of the RF signal generated and to check the expected power levels of the RF output** from the Device Under Test (DUT).

The system is also able **to perform tests for the power supply, speakers, audio, video, USB port and also the front panel** of the DUT by checking the serigraphy and the functionality of the LEDs.

Telemakos is designed in order to provide the integration of different automotive communication protocols (CAN, LIN and others).

Among the benefits, Telemakos offers the possibility **to reduce expensive test fields and to optimize the plant productivity** by increasing the test efficiency.

Telemakos is studied to be placed both in **R&D labs** and in **production sites**:

In R&D labs the system is supported by a completely open software platform that allows the user to fully customize the testing sequences (TP Test Program), with the technical support provided by Loccioni.

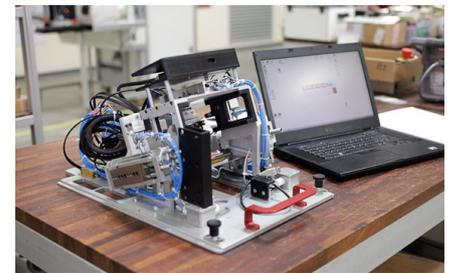
When dedicated to production sites, the system is developed by paying particular attention to basic requirements of ergonomics.



1. System



2. Double station



3. Flexible fixture