

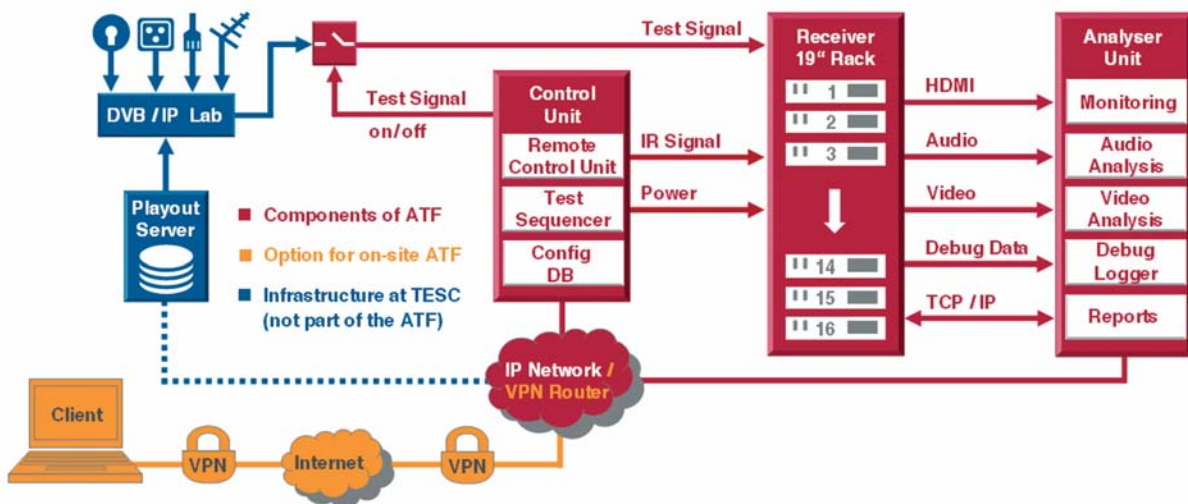
AUTOMATED TEST SYSTEM FOR DVB/IP RECEIVERS

DETAILED TEST RESULTS

The best way to consistently increase the quality and reliability of digital TV products is to complement proven manual test methods with automated procedures. Automated test results, like the results produced by our remote test system, are even more accurate than manual methods and offer higher statistical validity. The advantages for you

are obvious: maximum certainty before market launch, greater stability of production-ready equipment, much higher customer satisfaction. Our Automated Test Facility offers the quick, efficient and economical results that engineering teams traditionally obtain by outsourcing to external laboratories.

ATF AUTOMATED TEST FACILITY



ATF is an automated black-box test system with remote control for evaluating the quality of digital TV receivers. Using our ATF, you can simultaneously test up to sixteen receivers of identical or different models. This professional test system is mainly used to verify the following aspects:

- | | |
|----------------------|--|
| ▶ Stability | ▶ Functional reliability |
| ▶ Robustness | ▶ Performance |
| ▶ Reliability | ▶ Behaviour under stress and over the long-term |

Freely definable test sequences can be setup quickly and easily with the help of predefined routines. New test possibilities can be achieved by combining the virtual remote control with the powerful analysis of audio and video output signals.

ATF OPERATING PRINCIPLE

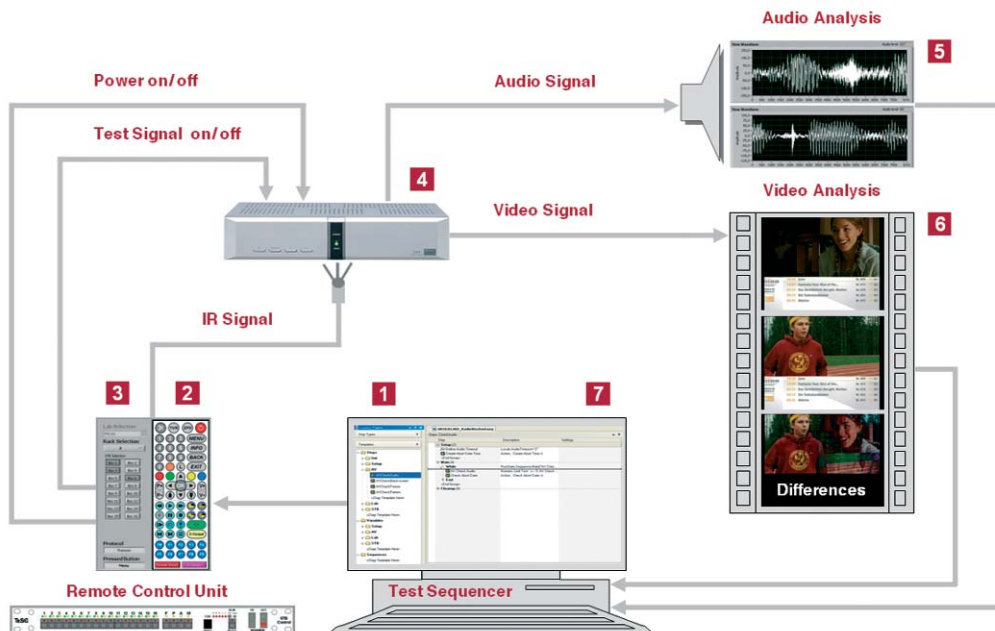
- 1 Create and run the automated test sequences
- 2 Simulate the remote control signals with the aid of the virtual remote control
- 3 Manipulate remote control signals, voltage and signal supplies individually or in groups
- 4 Measure and analyse the signals at the receiver's output
- 5 Analyse the audio signals by comparing the level values
- 6 Analyse the video signals by comparing images produced from the calculation of differential images
- 7 Generate automated documentation of all test steps and all identified failures

INNOVATIVE

Our automated test system is one of the most technically innovative tools available for the professional quality assurance of DVB/IP receivers.

EFFICIENT

Our automated test procedures increase the efficiency and validity of your tests by allowing you to identify the functional capabilities of a receiver before market launch and exploit your competitive edge.



FLEXIBLE

We can also test the stability and functionality of DVB/IP receivers automatically, on-site, right where you are and under original network conditions. All automated tests can also be performed remote over a secure Virtual Private Network connection (VPN) from our headquarters in Munich.

THE COMPANY

TESC Test Solution Center GmbH, a Kudelski Group company, operates a globally acknowledged test laboratory and support center for digital television. Equipped with the latest technology, our qualified engineers, media technicians and physicists use innovative test procedures to make sure that DVB/IP receivers operate reliably. Over the last few years these high standards have allowed us to establish ourselves successfully as a premier test and solution partner in the DVB/IP market.



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