

LABWISE



Relax! Let Labwise take care of the testing for you.



Laboratory testing can be time consuming, tedious, even boring at worst. The same time used in a lab, repeating test procedures, could be easily released for more creative activities. Labwise offers you a professional, fully featured digital television test laboratory. Let our experts and our test automation systems dig out the test results for you - at the same time you can concentrate on developing inspiring new and creative features for your customers instead.

QA or Q&A

Is the operator using a barker channel for broadcasting data for the electronic program guide? Or, are they sending the same data in each multiplex? Is there a home multiplex from which all the network information can be retrieved? On which frequency? What is the correct priority order for decoding and transcoding the various multi-channel audio formats? How are the conditional access chipset pairing keys distributed in the networks?

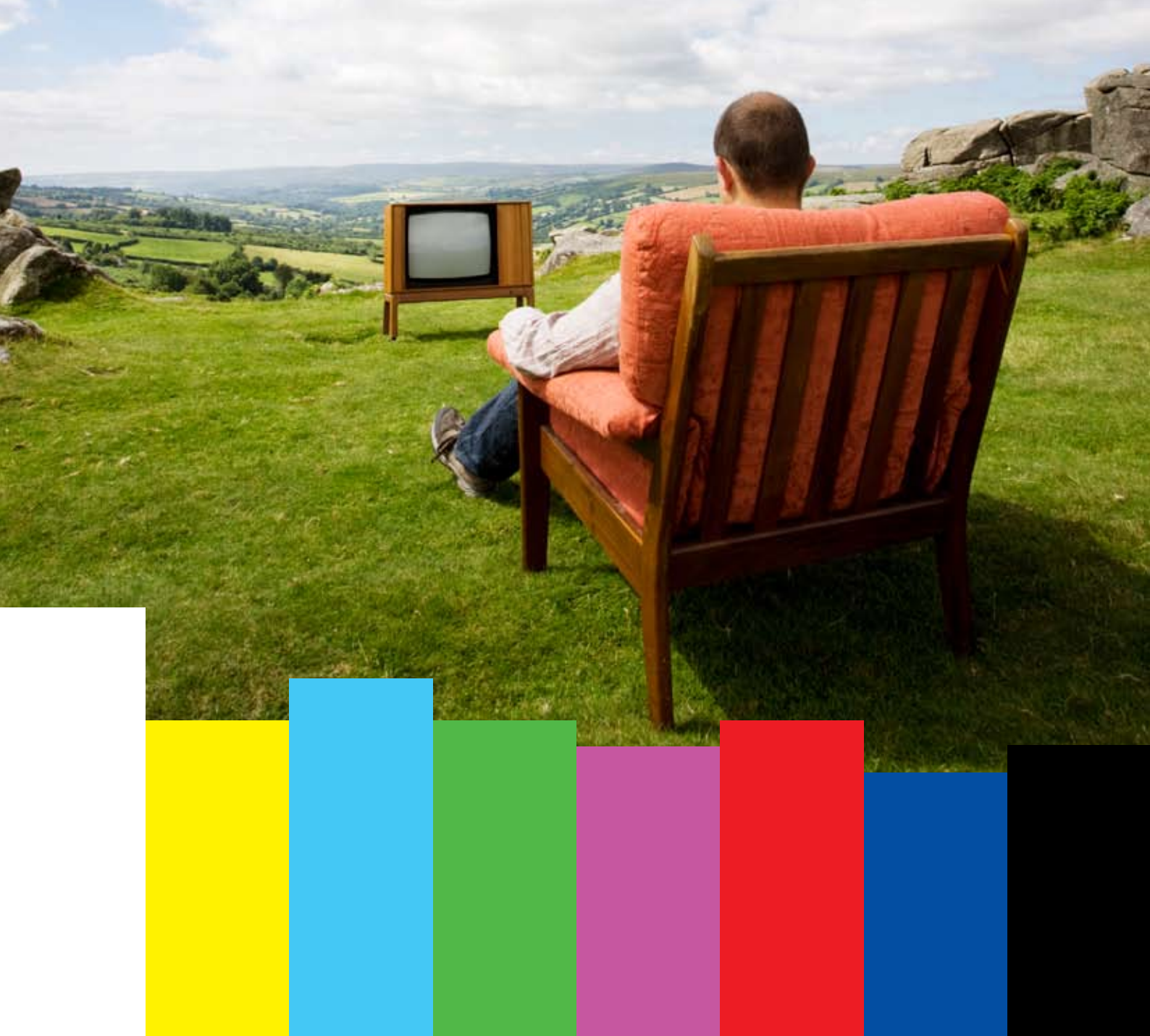
There is an overwhelming amount of small details to remember when considering the various optional features of a DVB system. In Lab-

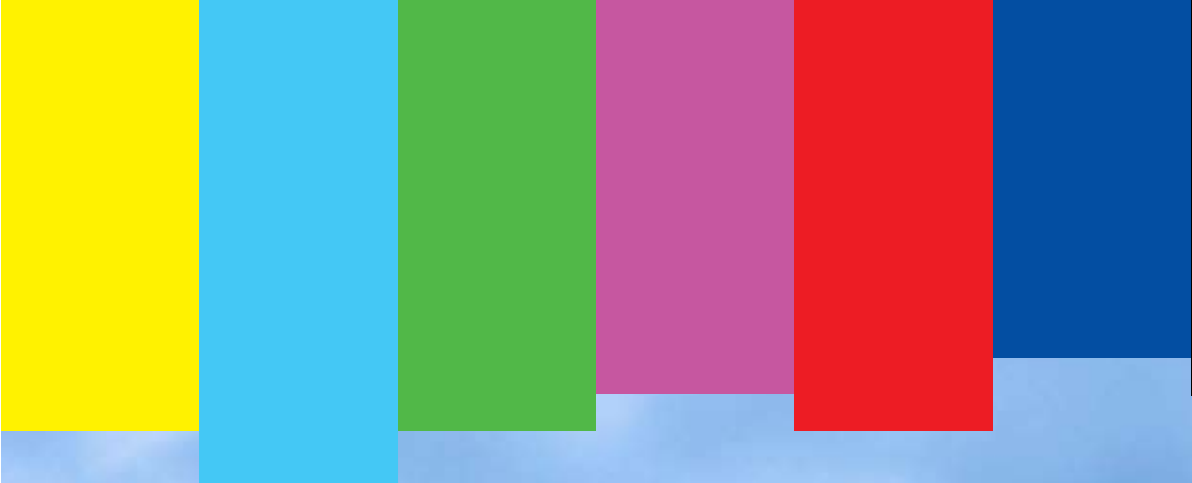
wise we are the experts of these details - we test each an every small detail, we even sometimes write them down into official specifications. Therefore, a simple Q&A session with us can help your QA considerably. Relax! Let Labwise take care of the small details for you!

Faster results, lower costs

Reduce your R&D and QA costs considerably both close to the market introduction phase as well as early on in the product development phase. We at Labwise have access to local live TV broadcasts and to scrambled TV services with the related smart cards and CI

modules. We know the peculiarities of the local networks and we have the customized test streams to test against each small feature in the networks. Therefore, we can offer you valuable information, test streams and test services against the local TV networks already in the beginning of your product development phase. When your product is designed to understand the target market already from the beginning, it will save you time and money at the final most critical steps when the production line ramps up for mass production. You don't have to worry about passing the local acceptance tests anymore at this phase.





Positive culture shock

Can a test laboratory have a fun, positive, relaxed and creative atmosphere? Especially when it is located in a small town in a remote, cold and sparsely populated Northern European country? We at Labwise invite and challenge you to experience a positive culture shock! Come to visit us! Our laboratory is at your disposal 24 hours a day, 7 days a week. Increase your problem solving speed by utilizing our test systems, our test streams and the live local TV networks. Discuss with our wacky engineers about the most difficult implementation issues, or challenge them to a bug hunt. Our engineers are true experts in the field of RF technology, DVB signaling, software development and all things related to digital TV. Over the years, we

have seen hundreds and hundreds of digital TV receivers; we have investigated what is wrong with them, and then helped to fix them.

Your creative space

Let us help you to turn the typical verification test project into a positive and creative experience! Instead of a mandatory additional cost, let's convert it into a possibility to reduce the overall R&D cost and shorten the time to market! Let Labwise take care of the bugs for you - you can take the next step and concentrate on innovation and creativity!

Relax! Let Labwise be a positive experience for you!



Short summary of various Labwise services for you

Labwise is a one-stop-shop for all the digital TV testing needs you may have. We offer anything from official certification tests, to conditional access system tests and to customized test projects to help your quality assurance team.

Verification and acceptance tests

- Official *Cable Ready HD* testing and certification
- Official *Antenna Ready HD* testing and certification
- Expert of *NorDig* specification and conformity testing
- Labwise is also an authorized test laboratory for conditional access conformance tests

Customized test-projects

- Expert of *European* TV standards and specifications
- Automated RF tests for DVB-C, DVB-T, DVB-T2, DVB-S and DVB-S2
- Customized PSI/SI signalization tests against live and laboratory TV networks
- Over-the-air download (OTA, OAD) system tests
- Turnkey OTA software update services to manufacturers.

Consulting

- External product manager and single point of contact for pay-TV operator acceptance tests in Scandinavia
- Gateway for product localization for the various European markets and customers
- Test process and test specification development
- Product support and after sales service
- Digital TV training

Test streams for self-testing

The Streamwise Test Stream Suite family currently available for:

- Cable Ready HD
- Antenna Ready HD
- NorDig DVB-C
- NorDig DVB-T/T2
- NorDig DVB-S/S2

Customized test environments

- Customized video monitoring systems for operators
- Automated RF measurement systems for TV device manufacturers

24/7 test laboratory at your disposal

Welcome to utilize our professional test laboratory, with 24/7 visitor access!

Contact us!

We would be happy to discuss with you more about Labwise and our services. You may reach us easily by phone or email.



AAA: Labwise is rated financially to the best AAA class • **Antenna Ready HD:** Labwise is an official test laboratory for the Antenna Ready HD certification tests of the DVB-T2 products in the Finnish market • **Cable Ready HD:** Labwise is an official test laboratory for the Cable Ready HD certification tests of the DVB-C products in the Finnish market • **Conax:** Labwise is one of the selected Conax laboratories to perform Conformity Tests and Pre Tests for Conax conditional access system implementations • **FiCom:** Labwise is the official custodian of Finnish Federation for Communications and Teleinformatics (FiCom) for the product certification and licensing services in Finland; Labwise is also an editor of the Unified Requirements of HDTV DVB-C and DVB-T2 digital receiver for Finnish market • **NorDig:** Labwise is an external consultant of NorDig Technical Group and chairman of its Testing Subgroup; Labwise is also an editor of the NorDig Unified Requirements for Integrated Receiver Decoders

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