



# TERACOM IRD TESTING

Conformance testing – ensuring high-quality TV experience

Teracom IRD testing is a service for operators and manufacturers that aims to guarantee a high-quality TV experience for the end user by ensuring that transmission and reception are well matched. Our experienced test centre provides independent conformance testing of Integrated Receiver Decoders (IRD). We evaluate and test both the functionality and performance of a wide variety of platforms, such as chip sets, set-top boxes (STB) and integrated digital TVs (iDTV).



## About Teracom IRD Testing

Teracom is an experienced network operator that participates actively in technical standardisation work, being a member of ETSI, DVB, NorDig and DigiTAG.

Teracom is able to offer operators and receiver and chip manufacturers tests of DVB-T/T2/C receivers and demodulator chips according to NorDig Unified specifications, as well as MHEG-5 software compliance tests.

The tests are conducted in our own digital TV lab and are performed in a quality-controlled manner. The tests determine how well the receiver meets the specifications.

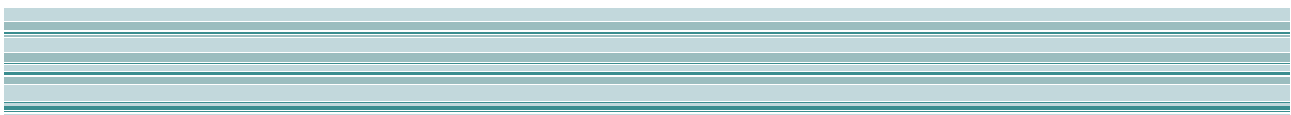
Teracom has very long experience of chip and receiver testing. Over the past 10 years Teracom has tested more than

700 receiver models from about 40 different manufacturers. The test process follows a highly defined structure.

## Our services

We provide the following services to our clients:

- Certification programs for Operators
- Full IRD conformance test
- RF chip test (i.e. demodulators, silicon tuners)
- RF conformance tests
- SW conformance tests
- DVB SSU test
- Receiver farm testing
- Consultancy services





## Teracom Test Center

The Teracom test centre is equipped with a complete broadcast chain, including an MPEG4/H.264 AVC encoder, multiplexers and network adapters, making it possible to simulate a live digital TV network.

Teracom is able to change the setup in the lab based on customer requirements.

## Certification programs for operators

We help operators set up and run their own receiver certification programmes and we work closely with our clients to customise the tests required. Teracom is the appointed test centre for the pay-TV operators Boxer (Sweden, Denmark and Finland), RiksTV AS (Norway) and RTÉ Saorview (Ireland).

## Full IRD conformance test

We offer full conformance testing with a certain DVB specification. Currently we run conformance testing with the NorDig Unified Specification.

## RF conformance test

Our lab is equipped with fully automated RF test facilities, developed by Teracom, and measurement facilities. We evaluate both RF chip sets and complete products.

## DVB SSU test

OVB SSU testing is included in the Full IRD conformance testing. In addition to this manufacturers may order an additional DVB SSU test, whereby Teracom tests downloading new software to an IRD that has already been tested. Teracom has suitable equipment for full DVB SSU testing for both Simple profile and Enhanced profile.

## Receiver farm test

When significant changes are to be made to a DTT network, such as new advanced services or major changes in the signalling, Teracom can perform a receiver farm test to ensure that any issues can be identified and addressed in advance.

## Consultancy Services

Teracom has long experience of DVB specification, network operation and IRD testing. With our expertise we are able to offer operators and receiver and chip manufacturers consultancy in order to maximise the performance of their products.

## FACTS

*Teracom is the appointed test center for:*

- Boxer (Sweden/Denmark)
- RiksTV (Norway)
- RTÉ Saorview (Ireland)
- We help operators to set up customized solutions.

*Full IRD Conformance test:*

- NorDig

*SW conformance test:*

- MPEG2 and H.264/MPEG4
- SDTV / HDTV services
- PSI/SI signaling
- Teletext and subtitling
- MHEG-5

*RF conformance test:*

- Automated tests for both UHF and VHF
- DVB-T, DVB-T2 and DVB-C

*DVB SSU Test:*

- Simple and Enhanced profile

*Receiver farm test:*

- Pool of representative receivers
- STB and iDTV

*Consultancy Services:*

- Pre-test – reference platforms and complete products
- Customized tests

## CONTACT

For further information about Teracom IRD testing please contact us:

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Teracom has been broadcasting Swedish radio and TV since the very beginning. Today, we combine our substantial broadcasting experience with great technological skills in order to provide various media solutions to people and companies – anywhere, anytime.

Our ambition is to provide Sweden and Europe with future solutions for media and communication.

Today, Teracom broadcasts digital TV as well as analog and digital radio. We also provide radio magazines and radio data services.

Furthermore, we offer receiver tests (DTV), datacom solutions and media transport with contribution and distribution of TV and radio links, location service and other services.

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