

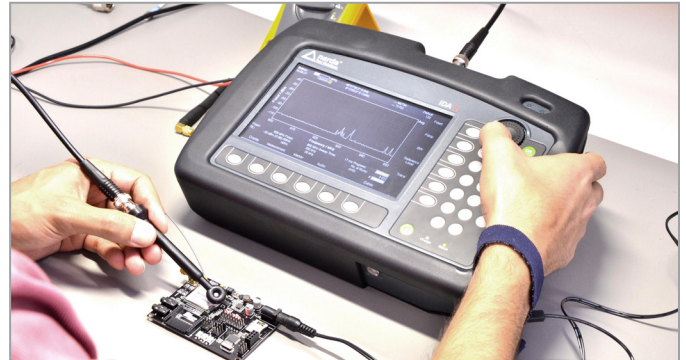
# IDA 2 - High Resolution Spectrum Analyzer

## Fast, high resolution, reliable measurements

IDA 2 provides comprehensive analysis functions in the frequency range from 9 kHz to 6 GHz.

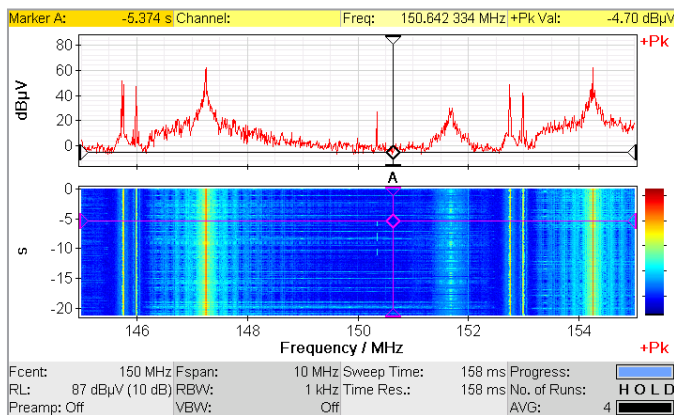
In particular, the high measurement resolution in the time and frequency domains make the IDA 2 very useful as a test and development tool for sensor solutions, Internet of Things (IoT) devices, and for the automotive industry.

Up and running - IDA 2 is ready to run in just a few seconds and does not need a separate laptop controller. See more and make more effective measurements at an unbeatable price / performance ratio with the IDA 2.



### Spectrum Analysis

- › Frequency range 9 kHz to 6 GHz
- › High measurement resolution with up to 27,000 Bins and additional Magnifier display
- › Extremely fast measurement with a sweep rate of up to 12 GHz/s thanks to hybrid signal processing of superheterodyne architecture and powerful, wide band AD conversion
- › Excellent phase noise  $\leq -97$  dBc/Hz
- › Very wide dynamic range with a DANL of down to  $< -160$  dBm/Hz
- › Spectrogram / Waterfall diagram

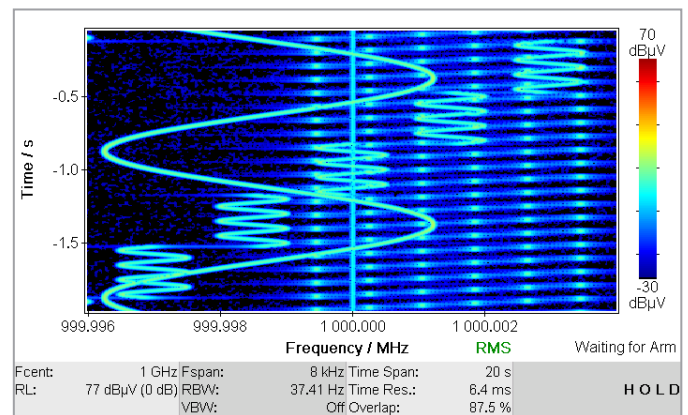


Spectrum with simultaneous display of the spectrogram

### I/Q Analyzer

One measurement, many analysis functions:

- › **I/Q** enables display and recording of the I/Q components of the signal.
- › **Magnitude** (Time Domain) with time resolution of up to 31.25 ns and real time triggering.
- › **HiRes Spectrogram Zoom/Full**, Spectrograms with frequency resolutions (RBW) of up to 94 mHz and time resolution of up to 1  $\mu$ s enable detailed display of sensor signals and IoT signals such as Bluetooth or Wi-Fi.
- › **Persistence Spectrum** enables separation of overlapping signals with different time characteristics.



High Resolution Spectrogram also resolves mixed signals versus time

## Time Domain

Time Domain operating mode enables measurements in the time domain with a channel bandwidth of up to 32 MHz.

- › “High Resolution Scope” with time resolution of up to 31.25 ns
- › “Long-Time Scope” for measurements of up to 24 h duration and up to 62,500 samples

## Robust, compact and portable

IDA 2 is not just designed for laboratory use; it is also ideal for making measurements in challenging environments.

- › Ambient temperatures from -10°C to +55°C (battery operation)
- › Specifications meet MIL-STD-810G, MIL-PRF-28800F Class 2 for temperature, air humidity, vibration and functional shock
- › Weighs less than 3 kg
- › Very long measurement times possible without external power supply: The rechargeable batteries can be hot swapped during a measurement.

## Local advice

Our local sales partners can advise you about the various measurements that can be made and can help you to configure the IDA 2 to match your particular applications. They will also be happy to demonstrate the instrument to you.

Visit our online shop and get a quotation, without obligation.

## Narda Safety Test Solutions GmbH

Narda is a leading supplier of measuring equipment in the RF safety, EMC and RF testing sectors. The RF safety product spectrum includes wideband and frequency-selective measuring devices, and monitors for wide area coverage or which can be worn on the body for personal safety.

Analyzers and devices for measuring and identifying RF signals are also part of our product range. Our services include servicing, calibration, and training programs.

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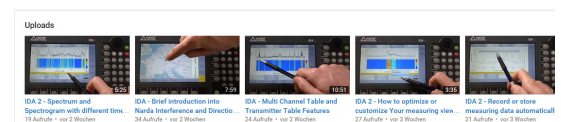
## Further functions

The IDA 2 has many other functions in addition to those already mentioned. For example:

- › Tone Search: The signal level is converted into an audio tone allowing effective signal searches using a near field probe.
- › Multi-Channel-Power: Allows analysis of up to 500 channels.
- › Measurement settings can be saved as setups and recalled for later use.
- › Remote control via USB, LAN or optical interfaces.
- › IQ streaming link to open source SDR software such as SDR Console, HSDR, SDR#.

## Application videos

We have put together a range of application videos on our YouTube channel. Take a look at the IDA 2 in action at:



<https://www.youtube.com/channel/UCxerYxUbG0bYG5pfONhSHNQ>



<http://www.narda-ida.com>

