

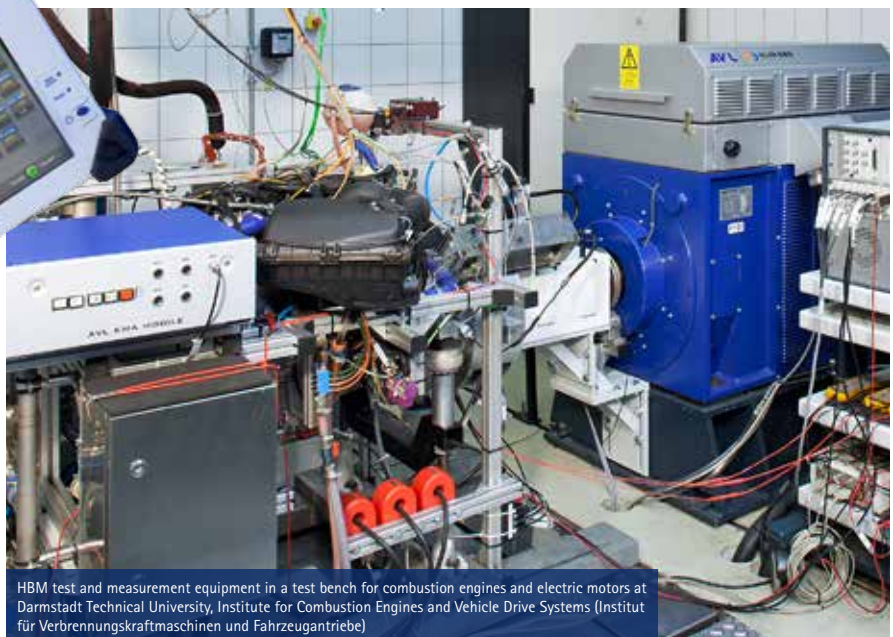
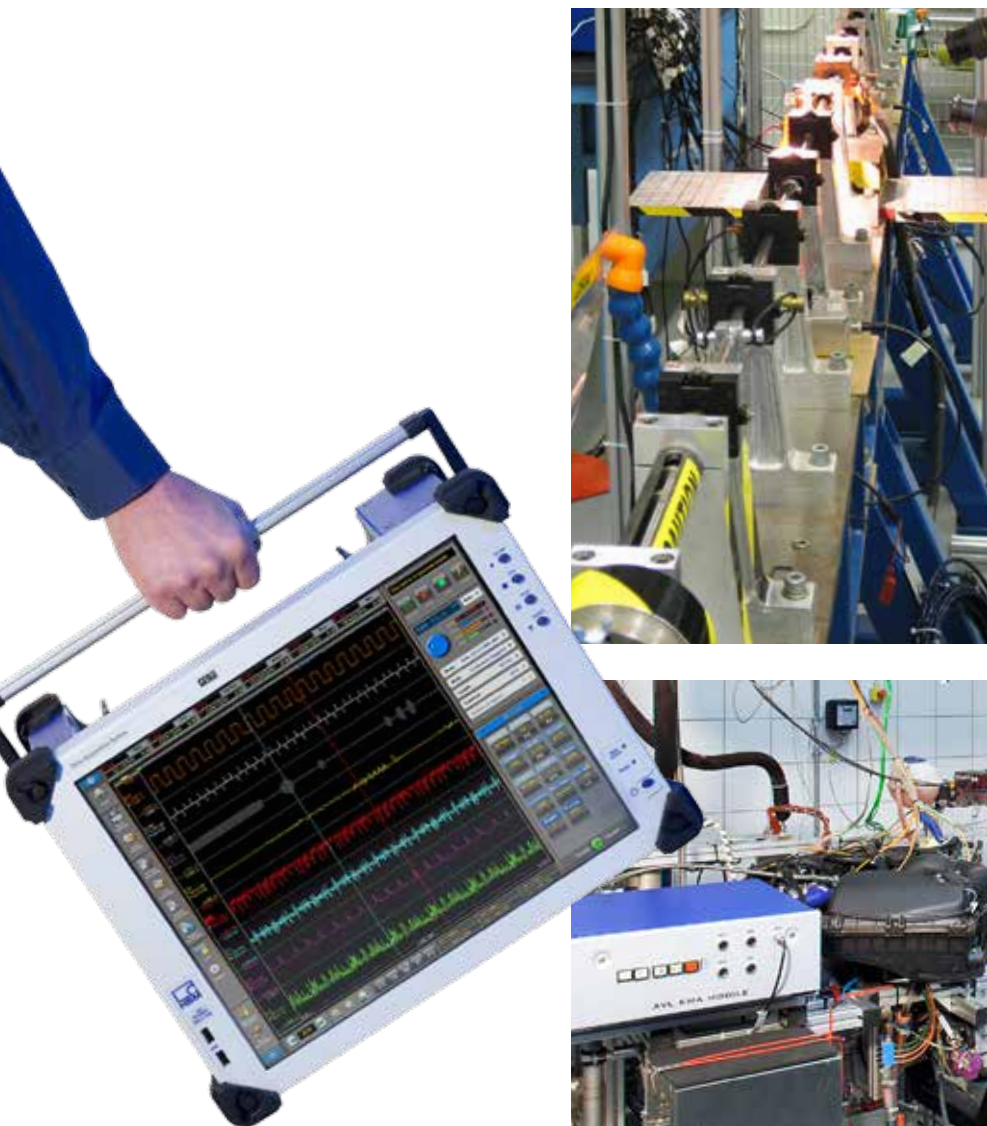
# GEN3i data recorder

Powerful, portable, intuitive to use



# GEN3i – the flexible solution for a wide range of applications

The portable GEN3i data recorder offers a virtually infinite application potential. Thanks to its compact dimensions it is ideally suited for mobile use – for troubleshooting, maintenance or start-up, for example, with generators, turbines or motors. The GEN3i is also the right instrument for use in the laboratory, in power test stands or destructive material testing.



HBM test and measurement equipment in a test bench for combustion engines and electric motors at Darmstadt Technical University, Institute for Combustion Engines and Vehicle Drive Systems (Institut für Verbrennungskraftmaschinen und Fahrzeugantriebe)

# Strong performance, maximum ease of use

The GEN3i is a revolutionary, new portable data recorder, offering incomparably powerful performance features and an exciting touchscreen user interface. With up to 96 input channels, configurable to your needs, it provides both continuous direct-to-disk as well as fast transient recording.

## Powerful and flexible

**200**  
MB/s  
HIGH SPEED

- Direct data transfer (streaming) to the storage medium at speeds as high as 200MB/s – e.g. 96 channels each with 250kS/s or 18 channels with 2MS/s and 18 bit resolution
- 21 different data acquisition cards – from high speed (100MS/s sampling rate) through 1,000V direct input voltage to data acquisition cards for strain gauges and acceleration transducers

## Mobile and rugged

- Robust handle enables easy and convenient carrying of your complete GEN3i test laboratory
- Compact dimensions similar in size to a board case. A high-precision measurement instrument with a 17-inch screen could hardly be smaller
- Rugged design utilizing solid state disk, rubber bumpers, and screen protection for transportation



## Intuitive and easy

- As intuitive and easy to use as a smartphone, thanks to touchscreen user interface. You do not need a mouse or keyboard
- Data recording and review in a single keystroke





# Full control of your measurement data

With GEN3i you gain total control of your measurement data. You can access all data handling functions with a single touch of the large, intuitive touchscreen. The GUI is simple and self-explanatory.

## Acquire data

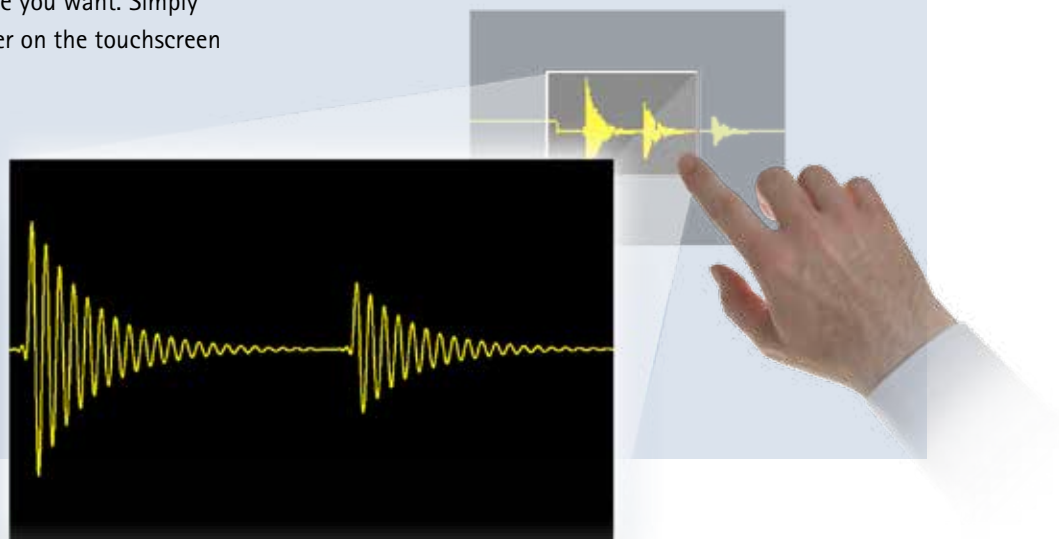
To begin recording press the START button. To end it you just press STOP.

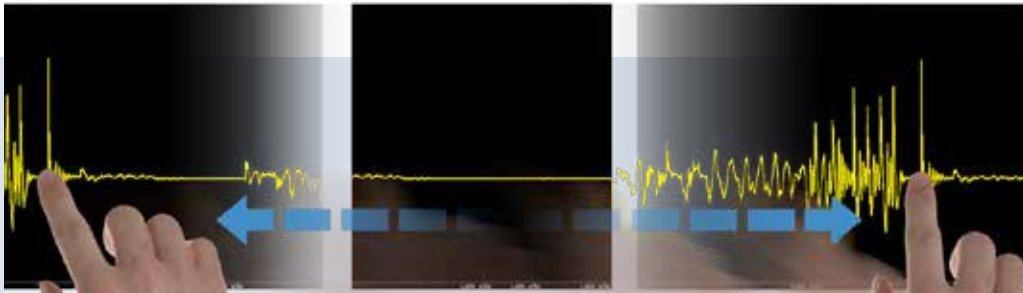
Yes ... data recording is this easy!



## Zoom data

Do you want to closely scrutinize a specific section of your recorded data? The GEN3i will immediately give you an expanded view of your data, in any scale you want. Simply mark an area of interest with your finger on the touchscreen to zoom in.





## Shift through data

You can move through your data to inspect them or to find measuring ranges of particular relevance. Just touch the trace and drag it in any direction you want to go.

## Browse different datasets

Whether you want to review multiple datasets or to inspect areas of relevance in a specific dataset – working with GEN3i is like browsing songs on an MP3 player. And to crown it all: you can playback your data at multiple speeds.



# Application-specific configuration



To meet differing requirements you can currently select from 21 data acquisition cards – with more to come.

## Combine different data acquisition cards. From high channel count to high speed

The GEN3i mainframe can hold up to three modules for data acquisition which can be freely combined to perfectly meet your requirements. Besides the basic isolated voltage inputs and high voltage inputs up to 1 kV, GEN3i can also be equipped with isolated strain gauge modules, data acquisition cards for accelerometer signals or transient modules offering up to 100 MS/s. GEN3i can be configured to meet your requirements.

Please see the GEN3i datasheet for an overview of available data acquisition cards at [www.hbm.com/GEN3i](http://www.hbm.com/GEN3i).



## It is more than a data recorder, it is also a DAQ system with an integrated PC

You can convert the GEN3i into a high-performance DAQ system at the push of a button. You simply connect a mouse and keyboard and run the pre-installed Perception software. Additional features include: Slow-Fast-Slow sampling, different sample rates per input module, enhanced triggering, and optional mathematical analyses through to FFT. Launch Microsoft® Office or your own application and utilize the seamless integration between Perception and Word® or Excel®. Displays, tables, whole reports – all can be transferred into other applications for further use.



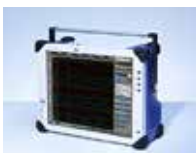
## FREE Viewer software for your PC

If you need to review your data on another PC or forward it to colleagues or customers, just download the FREE Viewer and use it on any PC. Load, view, zoom, use cursors or export the data in various other data formats.



## The strong performance features at a glance

- Portable: approx. 13 kg fully loaded
- Rugged design utilizing solid state hard disk
- Touchscreen-driven user interface
- Up to 96 input channels
- Selection of data acquisition cards from 20 kS/s to 100 MS/s per channel
- Direct-to-disk streaming with 200 MB/s
- Patented, lightning-fast display: 100 GB in 4 s
- Integrated Windows 7 PC
- Perception software for PC-based DAQ usage
- Synchronized recording of two GEN3i devices to increase channel count
- Connector for digital event/timer/counter functionality



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