

GEN2i The ultimate portable data recorder

Vision becomes reality



... with unique features and
leading-edge usability

Reap huge benefits from a new approach... ... to portable data recording

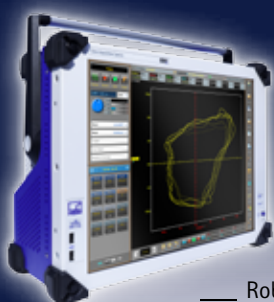
GEN2i is a new-generation measurement instrument which is as powerful and easy to use as a modern mobile device. It empowers you with the freedom and flexibility to record data wherever you are, and however you want. Its huge range of application possibilities further extends the capabilities of its legendary predecessor – the Nicolet¹⁾ VISION.

GEN2i is a revolutionary new portable data recorder, offering incomparably powerful features and an exciting touchscreen user interface. With up to 64 input channels, fully configurable to your needs, it provides both continuous direct-to-disk as well as fast transient recording.

Phenomenal power

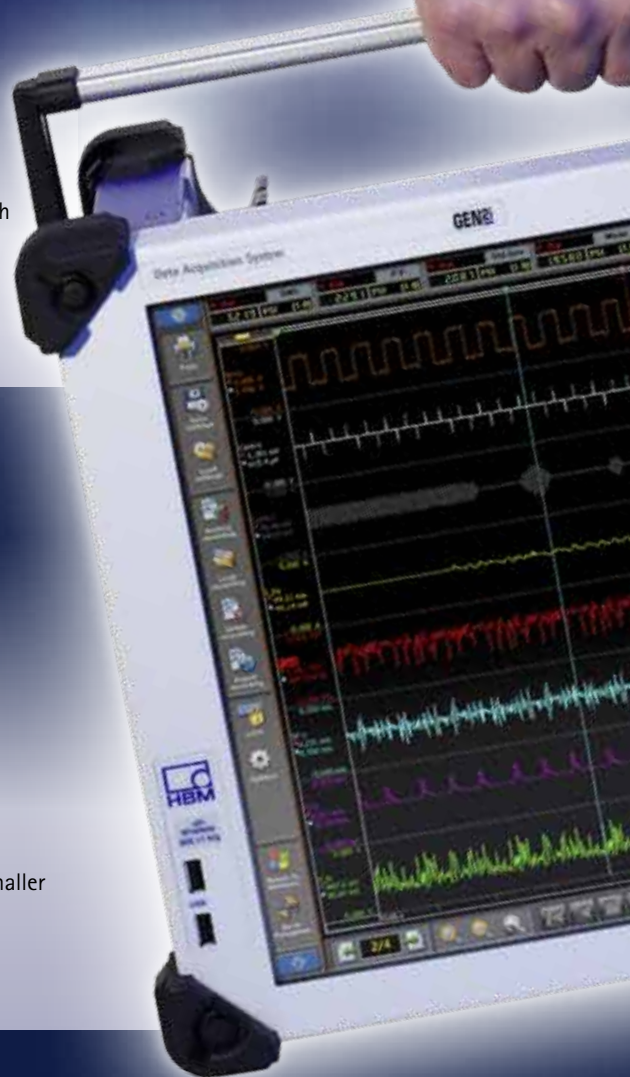
**50
MB/s**
HIGH SPEED

- ___ Direct-to-disk streaming with up to 50 MB/s – or 64 channels of 250 kS/s each
- ___ Optional high-speed modules with sample rates up to 100 MS/s
- ___ Fully isolated voltage, strain gage or accelerometer signal inputs.



Supreme portability

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



¹⁾ HBM Genesis HighSpeed products were previously sold under the Nicolet brand.
The Nicolet brand is owned by Thermo Fisher Scientific Inc. Corporation.



If you have ever used a modern touch-screen mobile device, you will feel instantly at home with the innovative "flip-through" controls of the GEN2i. It saves you time besides being totally self explanatory.



Unrivalled ease of use

- The touchscreen user interface means you do not need a mouse or keyboard
- The unique "one-touch" design provides access to all functions in a single keystroke
- The touchscreen interface is optimized for usability while simultaneously running the full features of Perception software.

Intuitive data handling

- "One touch" recording: A single press of a button does the job
- "One touch" review: Move or zoom data with your finger
- StatStream™²⁾ technology allows you to review 100 GB in 4 seconds – you do not lose any time waiting for huge amounts of data to be retrieved.

²⁾ StatStream™ is a registered trademark in the US and the EU.
StatStream™ is patented in Germany, France, the UK and the US.



Take full control of your measurement data!

With GEN2i 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: GEN2i enables you to start measuring immediately.

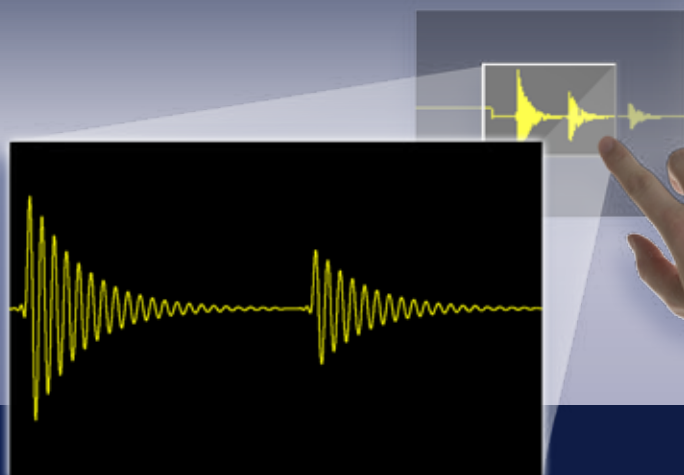
Acquire data

To begin recording all you need to do is press the START button.
To end it you just press STOP.
Yes... data recording is this easy with GEN2i!



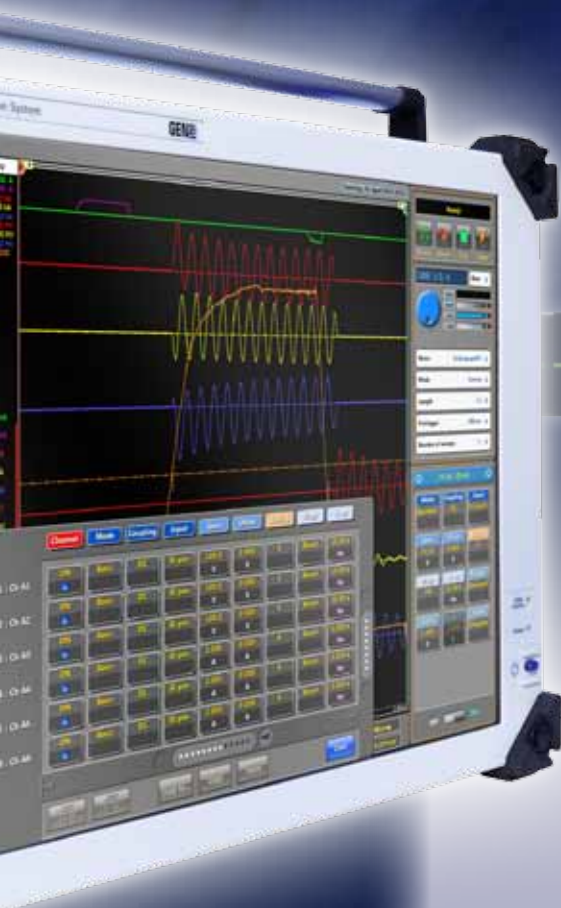
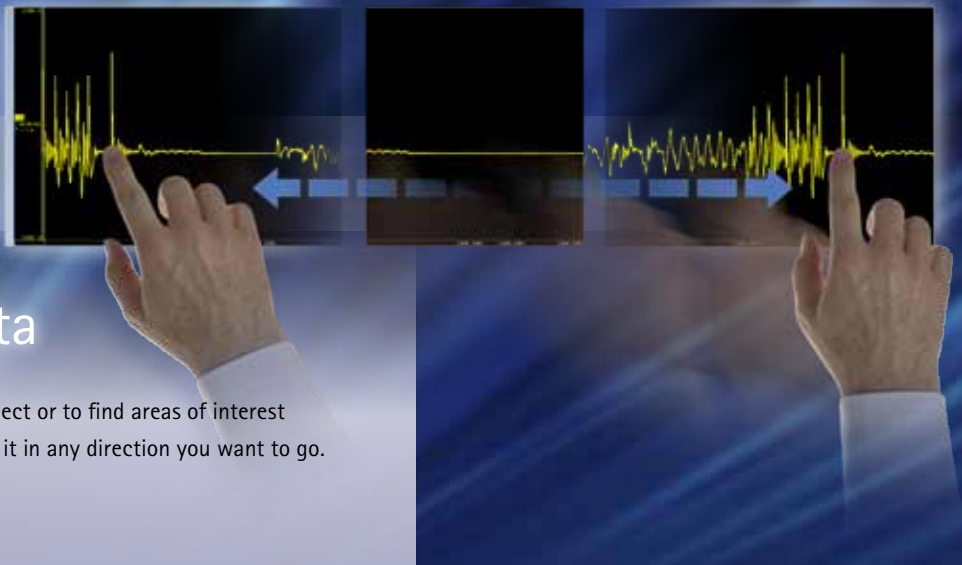
Zoom data

Do you want to closely scrutinize a specific section of your recorded data? GEN2i will immediately give you an expanded view of your data, in any scale you want, by simply marking an area of interest with your finger on the touchscreen to zoom in, as required.



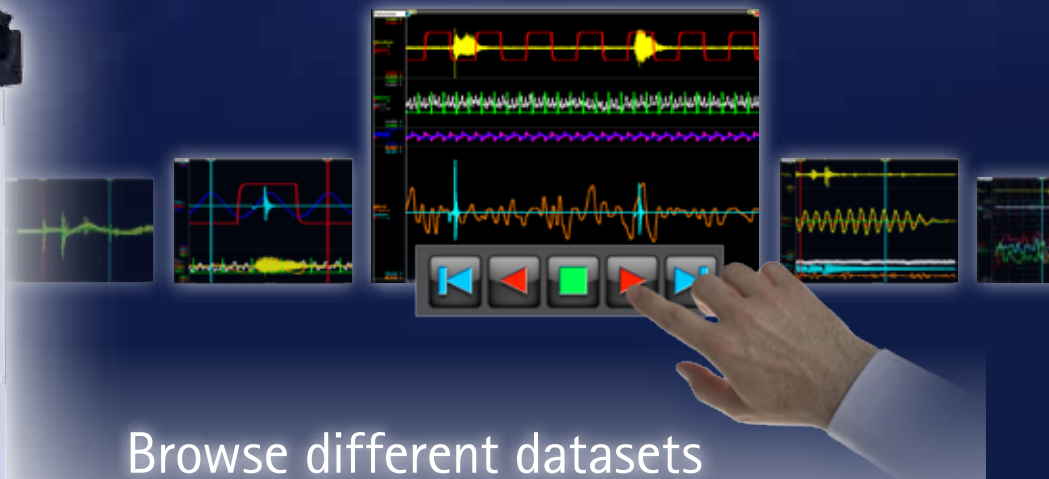
Shift through data

You can move through your data to inspect or to find areas of interest by just touching the trace and dragging it in any direction you want to go.



Browse different datasets

Reviewing multiple datasets is like browsing songs on an MP3 player. You have all the essential recording controls at your fingertips: Start/Stop, and Next/Previous. You do not need to search or skip through storage paths to find what you are looking for. And to crown it all, you can playback your data at multiple speeds in forward or reverse modes. That is even more than an MP3 can do!





Flexibility and performance out of the box

The GEN2i is ready to run immediately after being unpacked. It offers many powerful possibilities for your measurement tasks. In addition to continuous streaming to disk you can also accomplish high-speed triggered transient sweep recording.

Depending on the selected acquisition mode – continuous recording or triggered sweeps – data is either stored on disk directly, or first buffered in high speed RAM to offer transient recorder speed without any throughput limitations.

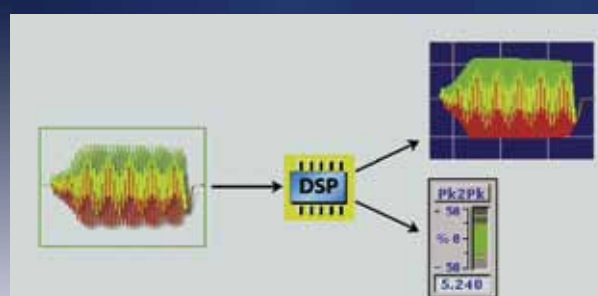
Acquisition modes: sample rate versus memory length

Storage		Throughput	Memory	Benefit
Continuous to hard disk		up to 50 MB/s aggregate	~ 300 GB	Recording length is only limited by hard disk space
Transient to RAM		Full channel sample rate up to 100 MS/s per channel	Up to 1.8 GB per channel	No aggregate sample rate limit

StatStream™¹⁾ display technology

GEN2i's exclusive patented StatStream™ display technology accelerates your measurement task. While recording, StatStream™ pre-processes a display summary at the full resolution of the GEN2i monitor.

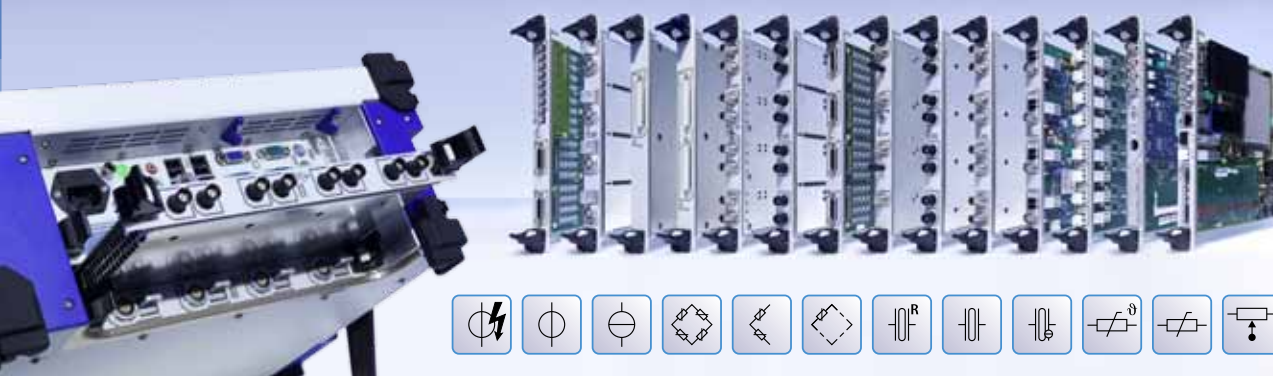
When reviewing your stored files, the embedded StatStream™ data enables an accurate, detailed overview of any size of file within a matter of seconds.



Review benchmark (recording 16 channels at 200 kS/s each)

Acquisition time	Recording size	Display time
1 minute	384 MB	2 s
10 minutes	3.84 GB	3 s
1 hour	23 GB	4 s
6 hour	138 GB	4 s

¹⁾ StatStream™ is a registered trademark in the US and the EU.
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To meet specific requirements you can currently select from 19 different input boards – with more to come.



Combine different input amplifiersfrom high channel count to high speed

The GEN2i mainframe delivers a substantial contribution to measurement quality.

The carefully designed housing for the DAQ portion eliminates any noise or crosstalk issues between the PC and the DAQ section.

The GEN2i can hold one or two acquisition boards, which can be freely combined to perfectly suit your application. Besides the basic isolated voltage inputs, and high voltage inputs up to 1 kV, GEN2i can also be equipped with isolated strain gage, accelerometer signal conditioners or ultra high speed transient modules offering up to 100 MS/s.

Please see the GEN2i datasheet for an overview of available input boards, available at www.hbm.com/GEN2i.

It is more than a data recorderit is also a DAQ system with an integrated PC

You can convert the GEN2i 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 board, enhanced triggering, and advanced analysis.

Launch Microsoft® Office or your own application and utilize the seamless integration between Perception, 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.

Microsoft® Office, Excel® and Word® are registered trademarks of Microsoft Corporation.

More information: www.hbm.com/GEN2i



GEN2i – the solution for a wealth of applications

GEN2i is the ultimate portable data recorder with an almost infinite application potential. Thanks to its exceptional portability GEN2i is ideally suited to field applications, like troubleshooting or maintenance of generators, turbines, motors, etc.. It is also perfect for laboratory work or in test cells performing power measurement, explosives testing or rocket launch monitoring.



Fully-integrated portable data recorder

- ___ Portable: Approx. 11 kg (24.25 lb) fully loaded
- ___ Robust design utilizing solid state hard disk
- ___ Touchscreen-driven user interface
- ___ Up to 64 input channels
- ___ Selection of input modules from 20kS/s to 100MS/s per channel
- ___ **NEW:** Direct-to-disk streaming with 50 MB/s
- ___ Patented, lightning-fast display: 100 GB in 4s
- ___ Optional IRIG and GPS timing interfaces
- ___ Integrated Windows7 PC
- ___ Perception software for PC-based DAQ usage
- ___ **NEW:** Synchronized recording to increase channel count.

From VISION to GEN2i

The new GEN2i replaces the LDS Nicolet VISION data recorder.

Main benefits:

- ___ Larger touch screen for more information and ease of use
- ___ Modular built-in signal conditioners
- ___ Five times the streaming rate, and transient recording mode
- ___ Windows7 PC runs Office®, full Perception or any other software
- ___ Backwards compatible with VISION data files.



Complete comparison available at... www.hbm.com/GEN2i

HBM Test and Measurement

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measure and predict with confidence

