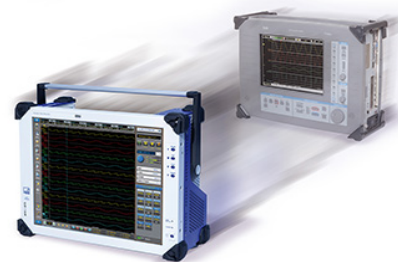


From VISION to GEN3i

The portable data recorder GEN3i has been designed in the best tradition of VISION from LDS Nicolet*. GEN3i combines the powerful features of VISION, enhanced by many technological and usability improvements.



See the complete comparison here:

General and PC portion

| | VISION | GEN3i | Advantages |
|-----------------------|--|--|--|
| Configuration | Instrument only, closed PC (PC was hidden) | Instrument and PC based DAQ | Dual use interface; switchable between instrument and DAQ system |
| Positioning | High-end streaming data recorder | High-end streaming data recorder and transient recorder | Now also with transient recording |
| Size | 420 x 320 x 150 mm | 440 x 350 x 190 mm | |
| Weight | 9 kg | 10-12 kg | |
| Hard disk | 36 - 144 GB Hard disk | 480 GB Solid state disk | No moving parts, extremely robust |
| Screen | 10", 800x600 or 640x480 | 17", 1280x1024 | ~ 4 times more information |
| OS | Win98 or WinXP | Windows 7 Ultimate 64 bit | Latest OS, future-proof |
| PC motherboard | NLX Industrial form factor | Standard motherboard | Easy to upgrade |
| User interface | Buttons & wheel, mouse & keyboard | Touch screen, mouse & keyboard | Even easier. VISION was already known for its easy user interface. |
| Connectivity | 100 MBit Ethernet, USB 1.1 | 1 GBit Ethernet, USB 3.0/2.0, WLAN | Up-to-date connectivity |

DAQ portion

| | VISION | GEN3i | Advantages |
|----------------------------|---|--|--|
| Acquisition slots | None, fixed 8 or 16 channels | 3 slots | Modular and expandable |
| Channel count | 8 or 16 | 4 to 96, pending from input modules | Easy upgrade later |
| Sample rates | 100 kS/s per channel | Up to 2 MS/s per channel (18ch); up to 100 MS/s transient to RAM | 20 times faster plus RAM acquisitions |
| HDD Memory | 36 - 72 - 144 GB | 480 GB | More memory |
| Streaming rate | 1.6 MS/s aggregate; but also 100 kS/s per channel limit | 200 MB/s aggregate; can acquire less channels faster | 60 x faster and can be bundled |
| RAM Memory | None | 128 MB to 1800 MB per board | Enables transient recording |
| Modes | Continuous or triggered | Continuous or triggered; and also dual and slow-fast | More flexible usage |
| Power loss recovery | Yes | Yes | |
| On board software | Acquisition and playback | Acquisition and playback; full Perception & Windows | Two different GUIs tailored for the application, plus analysis and reporting |
| Input modules | +/- 500 V isolated amp; TC via dongles | Full range of amps incl. 1kV, TC via QX satellite (Q4/2013) | All amps are higher accuracy and performance |
| Accuracy | 0.25% typical | 0.1% typical | Higher accuracy |
| Filters | Very limited | Full selection of time or frequency domain optimized filters | Select the best filter for your application |

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