



Smart Portable Phased Array Solution Rethink Your Standard.

Multiscan Solution

Retaining the best features of the established veo line, the new VEO+ is designed to meet the needs of today and tomorrow, making the VEO+ a smart and future proof asset for your business. Key design elements considered in the development of the VEO+ are user and performance focused. Based on a superior and innovative digital technology, four available PA configurations (16:64PR, 32:64PR, 16:128PR or 32:128PR). are offered as software options. Upgradeability in the field when needed!

Superior Digital Technology

The VEO+ electronic & software is powered by a new architecture offering superior data throughput and unsurpassed computational capacity to deliver fast and accurate results in the most demanding conditions. It allows inspectors to easily create high resolution volumetric scans and record very precise data sets with exceptional measurement precision.

These performances come from an impressive 32 channel PA beamformer providing exceptional SNR, enhanced digital signal processing and the legendary Sonatest ActiveEdge® pulser technology. Thanks to its Linux® 64-bit operating system and its fast 128GB SSD memory capacity, data file size is not a concern for VEO+. Data compression is yet another feature allowing one to record huge amount of information in more manageable data file size.

Connectivity



NETWORK
FILES TRANSFER



TRAINING &
PRESENTATION



COMPLETE
REMOTE
CONTROL



Power & Precision



Civil & Construction



Mining

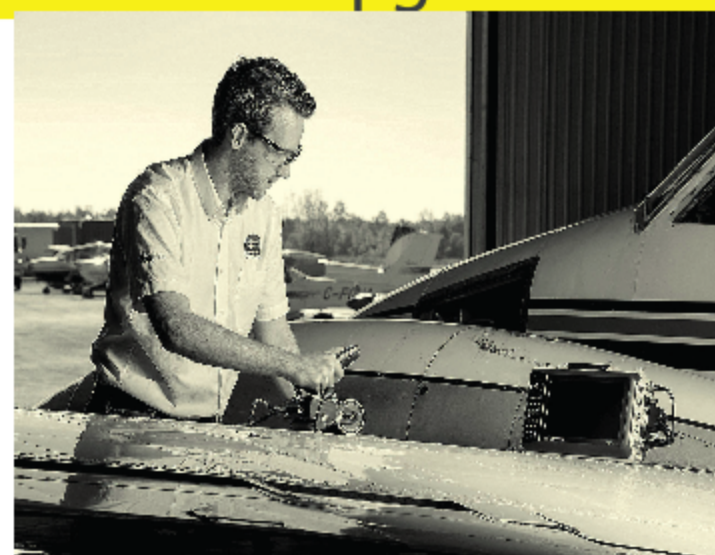


Transport

- Complex geometry parts
- Thick parts requiring much
- Attenuative special alloys
- High-Res. weld inspection



Software Upgrade



- Standard weld inspection
- FAST corrosion mapping
- FAST composite inspection
- Multi-Scan apps



Oil & Gas



Aerospace



Welding



Performance

32 Element Focusing

Versatility



Power Generation



Oil & Gas



Service Companies

- Heavy thickness weld inspection (S-Scan & L-Scan)
- 2x 64E probes
- 4x 32E probes



128 Channels Multi-scan



- Standard weld inspection
- Large & fast corrosion map
- Large & fast composite map
- Multi-Scan apps. (128 ch.)



Oil & Gas



Aerospace



Wind Energy

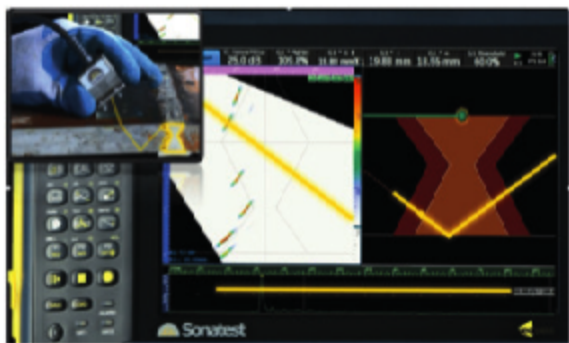


Productivity



Onboard Live 3D Scanplan

The Veo+ embedded modeling tools support multiple probes and scans, enabling quick and efficient set up of inspection plans. Choose from a range of weld geometries, render and visualise probes on the part, at precise locations, representing reality with high fidelity. Then add sound paths, with skips, allowing to assess and ensure proper coverage as planned in the scan plan.



The VEO+ embedded modelling tools are invaluable assets and a reference for the inspection report, communicating inspections results more completely and more clearly, as well as providing precious information to increase users' level of expertise. This feature makes the VEO+ a choice of excellence for serious NDT schools looking to provide the best academic training to the future inspectors.

Remote Control Solution



Using Sonatest's UTLink software application, VEO+ can be fully used and controlled remotely, via a simple network connection. As VEO+ now offers WiFi along with its fast GB Ethernet port, the possibilities are practically unlimited. What about getting real-time advice by an expert sitting anywhere in the world? Absolutely!

- Available for Windows 7, 8 and 10
- Easy installation with quick connection procedure
- Very simple user interface (virtual instrument!)
- Instrument auto-detection (works for veo+ & prisma)

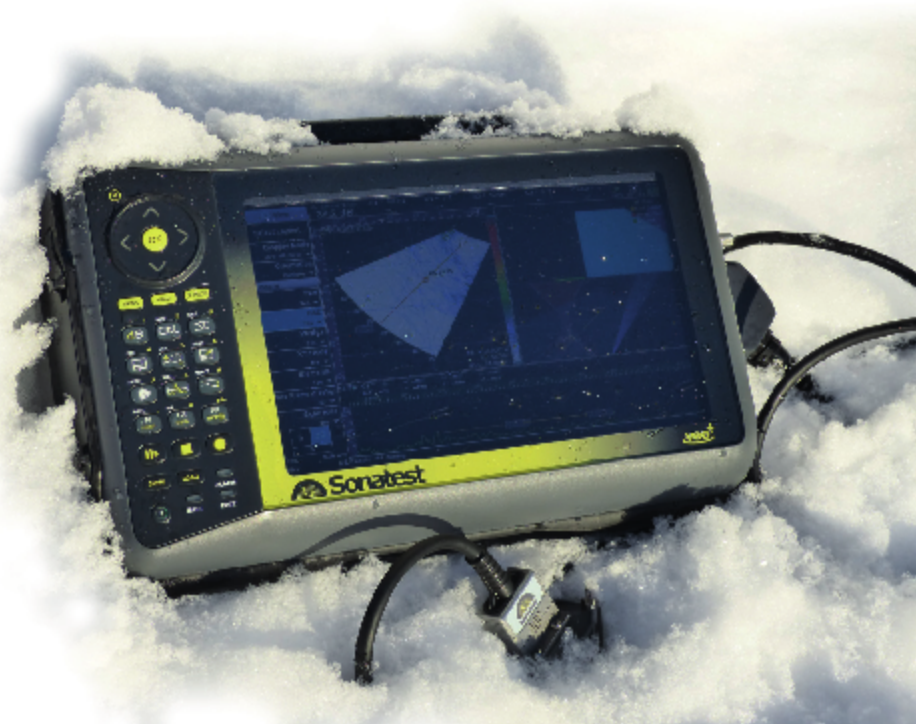
Advanced Analysis Software



UT Studio software application, which comes as part of the Veo+ package, is used to manage inspection configurations, perform data analysis and build precise reports. Veo+ data files are easily transferred via a network or a USB data key to the PC. Then, thanks to a comprehensive, right click / drag and drop user interface, one can create new data views, customize color palettes, add and modify gates and measurement parameters, generate extended reports and much more. In no time, be able to accomplish amazing things and get the job done.

Rugged

The VEO+ enclosure has also been designed to withstand the toughest of environments and has been successfully tested in the field for 5 years.



Specification

General

Multiscan Quantity
Pulsers / Receivers
Gain Range
Sampling Frequency (processing 16 Bits)
System Bandwidth
Max Pulse Rate Frequency
Pulse Voltage
Focussing Mode

S-Scan Resolution
L-Scan Resolution

Max PA Beams (focal laws)
Measurement tools

Max Points per A-Scan
Data Storage & File Size
Operating System
Analysis Software (PC)
Remote Control Software (PC)
Onboard Scan Plan Tools
Onboard Reporting Tools
Onboard PDF Reader
Integrated Online Help
Calibration Standards

User Interface & Ports

PA & UT Connectors
Instrument Display
Encoder Ports
GPIO Port (TTL)
Communication Ports
Remote Display Ports
Data Transfer Ports

Phased Array (32:128PR)

Up to 6 scans
32:128PR
80dB
125MHz @ 12 bits (processing 16 Bits)
0.2 to 23 MHz
50 000 Hz
100-50V ActiveEdge®
Constant : Depth, Path or Offset

up to 0.1°
1 element or double resolution
Up to 1024 beams

EXTRACTION BOX, 4 gates/
A-Scan, TCG, DAC, Split-DAC

Up to 8192 points per A-Scan (sub-sampling available)
128 Gb SSD & no file size limit
64 bits Linux® OS / Powered by Intel® CPU Core
UTStudio® for Windows® 7-8-10 & Linux® OS
UTLink® for Windows® 7-8-10 OS
Onboard 3D live rendering
PDF auto-report, Export data to CSV file, Save screen capture
Ability to load and read any PDF documents
ACTIVE help genius for parameter optimization procedures, reports
ISO18563 (EN16392) & EN12668

1 IPEX 128 channels
4 LEMO 1 or 4 BNC
10.4" wide LED-backlit LCD, enhanced sunlight readable 1024 x 600
2 axes : Scan, Index or Clicker (LEMO 1)
Start, Stop, Index, Reset, Alarm (s), Trig... (LEMO 1)
WiFi 802.11n, Ethernet Gigabits & 3 master USB2
WiFi, Ethernet or VGA
WiFi, Ethernet or USB

Operating time, Enclosure & Environmental

Operating Temperature
Operating Time
Power Input
Unit Dimensions
Weight
Environmental Rating

-10°C to 40°C (14°F to 104°F) storage -20°C to 60°C (-13°F to 140°F)
6.6h (hot swappable batteries)
AC 110V/240V @ 50Hz/60Hz
115 x 220 x 335 mm (4.52 x 8.66 x 13.19 in)
4.54 kg (10 lb) no battery, 460 g (1 lb)/battery)
Designed for : IP66, MIL-STD-810G

Standard Package

Veo+ 16:64PR BNC
Veo+ 16:64PR LEMO
Veo+ 32:64PR BNC
Veo+ 32:64PR LEMO
Veo+ 16:64PR BNC
Veo+ 16:128PR LEMO
Veo+ 32:128PR LEMO
Veo+ 32:128PR BNC

Software & Options

CSV Export
Upgrade PA 32PR
Upgrade PA 128CH



UT-TOFD(2P)

Up to 2 scans (UT & TOFD)
2PR (4 connectors)
100dB
50/100/200MHz @ 10 bits

0.2 to 18 MHz
20 000 Hz
400-100V ActiveEdge®
na

na

na
na

4 gates/A-Scan, TCG, DGS/
Split-DGS, DAC/Split-DAC



Accessories

32:32 Y-Splitter I-PEX
64:64 Y-Splitter I-PEX
Phased Array Probes
TOFD & UT Probes
Wedge
Encoders
*More Accessories Available

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16:64PR | 16:128PR | MULTISCAN
32:64PR | 32:128PR | UT - TOFD 2PR

Simplicity | Capability | Reliability