







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



Smart Portable Phased Array Solution Rethink Your Standard.

Multiscan Solution

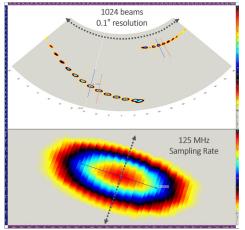
Retaining the best features of the established veo line, the new VEO+ is designed to meet the needs of today and tomorrow, making the VEO+ a smart and future proof asset for your business. Key design elements considered in the development of the VEO+ are user and performance focused. Based on a superior and innovative digital technology, four available PA configuration (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 amounts of information in more manageable data file size.

HIGH RESOLUTION SCAN



Connectivity







128Gb







TRAINING & PRESENTATION







COMPLETE REMOTE CONTROL





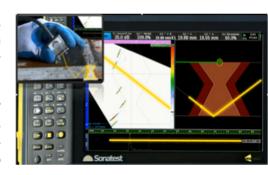




Onboard Live 3D Scanplan

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 inspection 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 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 from 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



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 colour palettes, add and modify gates and measurement parameters, generate extended reports and much more. In no time, you will 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.













Power & Precision







Civil & Construction

Mining

Transpor

- Complex geometry parts
- Deep penetration
- Attenuative special alloys
- High-Res. weld inspection



Software Upgrade

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









Oil & Gas A

Aerospace

Welding



Performance

Versatility









Power Generation

Service Companies

- Heavy thickness weld inspection (S-Scan & L-Scan)
- 2x 64E probes
- 4x 32E probes
- 6x 16E probes

128 Channels Multi-scan



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







Aerospace

Wind Energy





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)

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

Operating time, Enclosure & Environmental

Operating Time Power Input

Operating Temperature

Unit Dimensions Weight

Environmental Rating

(Subject to change without notice)

Standard Package

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

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

Remote Control Software (PC) 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,

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

 -10° C to 40° C (14° F to 104° F) storage -20° C to 60° C (-4° F to 140° F)

6.6h (hot swapable 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

Software & Options Accessories

CSV Export Upgrade PA 32PR Upgrade PA 128CH





32:32 Y-Splitter I-PEX 64:64 Y-Splitter I-PEX Phased Array Probes TOFD & UT Probes Wedge

Encoders

*More Accessories Available

UT-TOFD(2PR)

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

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













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