





32:04PK | 32:128PK | UT - 10FD 2PK



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.

1024 beams 0.1° resolution 125 MHz Sampling Rate

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 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.













Power & Precision









- 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







Aerospace



Performance

Versatility









Power Generation

Oil & Gas

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.)







Oil & Gas

Aerospace

Wind Energy

Productivity



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

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

UT-TOFD(2P

100dB

Up to 2 scans (UT & TOFD)

50/100/200MHz @ 10 bits

400-100V ActiveEdge©

4 gates/A-Scan, TCG, DGS/

Split-DGS, DAC/Split-DAC

2PR (4 connectors)

0.2 to 18 MHz

20 000 Hz

na

na

na

ISO18563 (EN16392) & EN12668

PA & UT Connectors 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**

(Subjecot to change without notice)

-10°C to 40°C (14°F to 104°F) storage -20°C to 60°C (-13°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

Simplicity | Capability | Reliability

Standard Package

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





Accessories

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







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