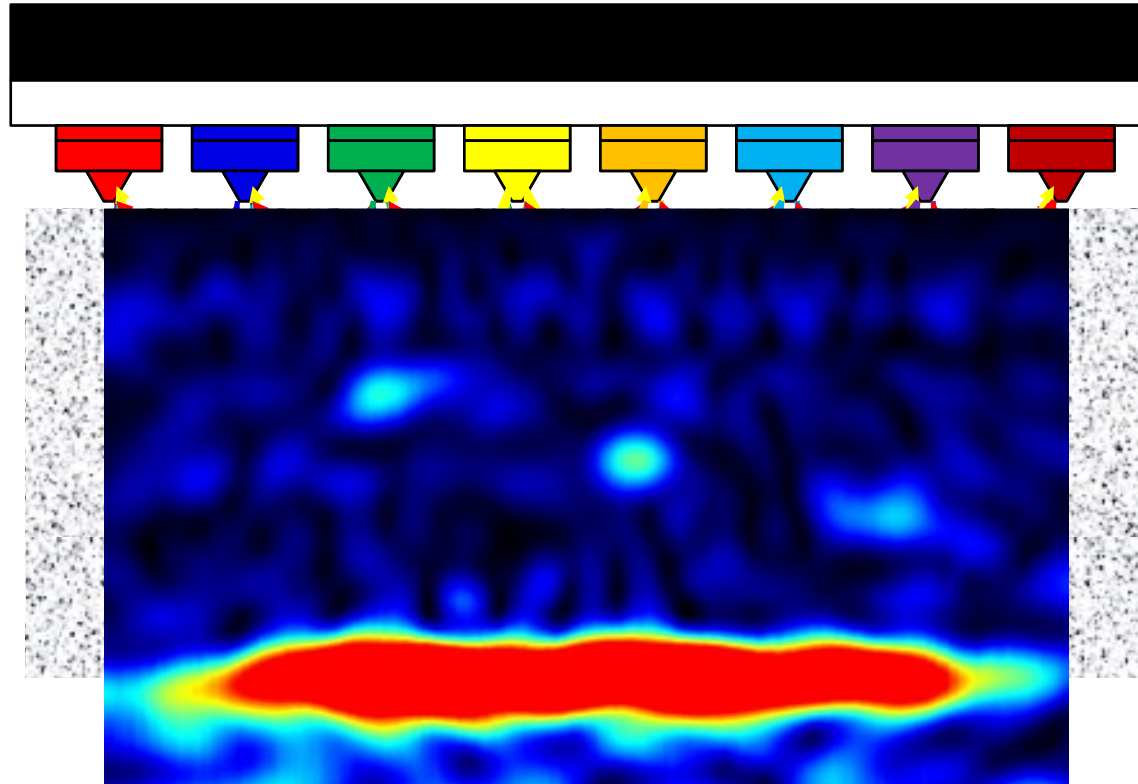# Pundit PD8050

# Overview

# Pundit PD8050

*The world's lightest pulse echo array transducer with wide area 2D and 3D imaging on-site*
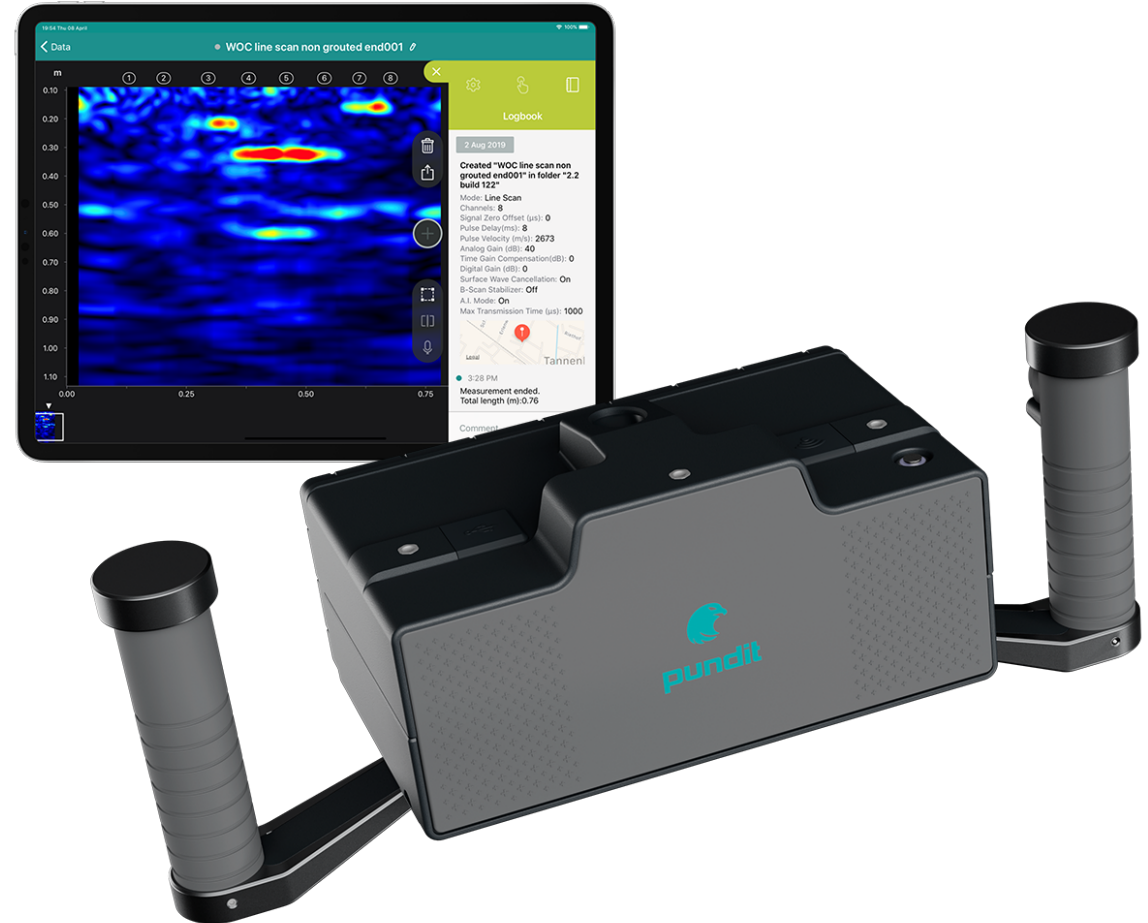
# Pulse echo technology

Each channel transmits in turn. A full cycle takes a matter of milliseconds



The resulting A-scans are combined to create a B-scan in real time

# Overview

# Feature, Benefit, Value

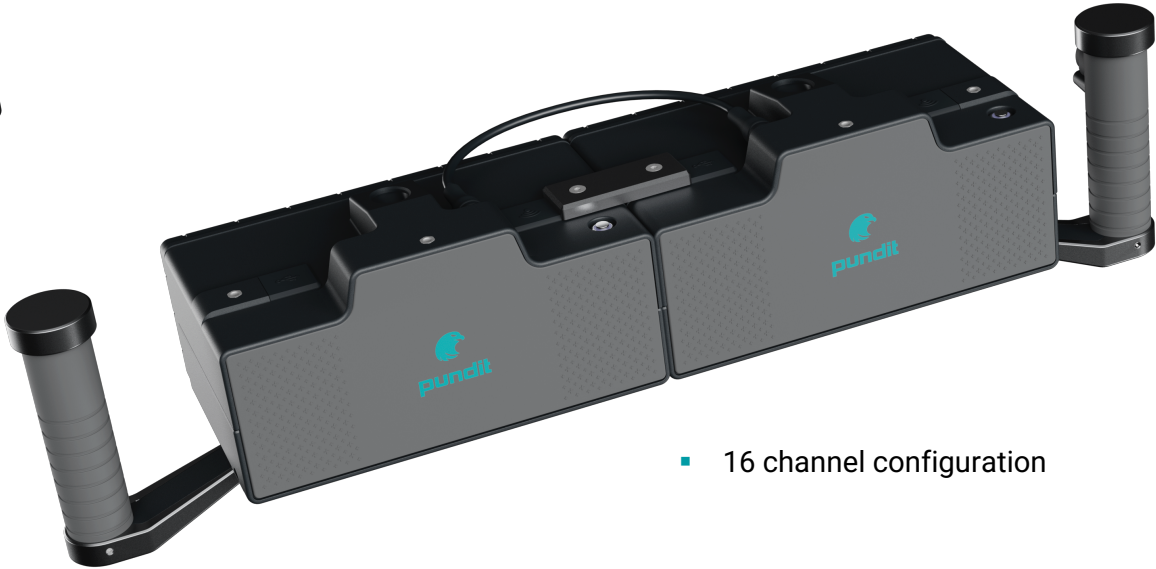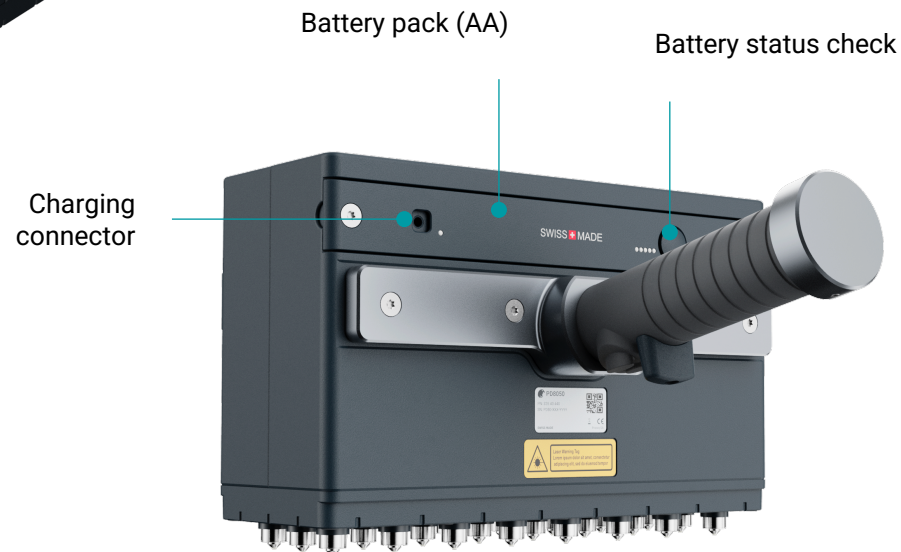| Feature Set | Benefits | Value |
|---|---|---|
| **Modular, light transducer** | ✓ Fast scanning times<br>✓ Less fatigue<br>✓ Scalable for application | |
| **Workflow optimization** | ✓ A.I. positioning for fast acquisition<br>✓ Real-time imaging for instant feedback<br>✓ Fastest set-up of transmission parameters | **Money**<br><br>**Time**<br><br>**Peace of mind**<br><br>**Joy**<br><br>**Prestige** |
| **Superior software user experience** | ✓ See the full picture<br>✓ Large scale 2D scans directly on site<br>✓ Large scale 3D scans directly on site<br>✓ AR projection of scans onto the structure<br>✓ Future-proof, long-lasting investment | |
| **Versatility and comfort** | ✓ Wireless probe<br>✓ Modular design to fit application<br>✓ Standard, flight-safe battery operation | |

# Modular Design



- Standard sensor

- Dual handle configuration

- 16 channel configuration

**Product Overview**

# Sensor

On/Off Button

Tablet fixing

USB-C

Laser

Camera

Transducer module

Control buttons

Battery pack (AA)

Battery status check

Charging connector

SWISS MADE
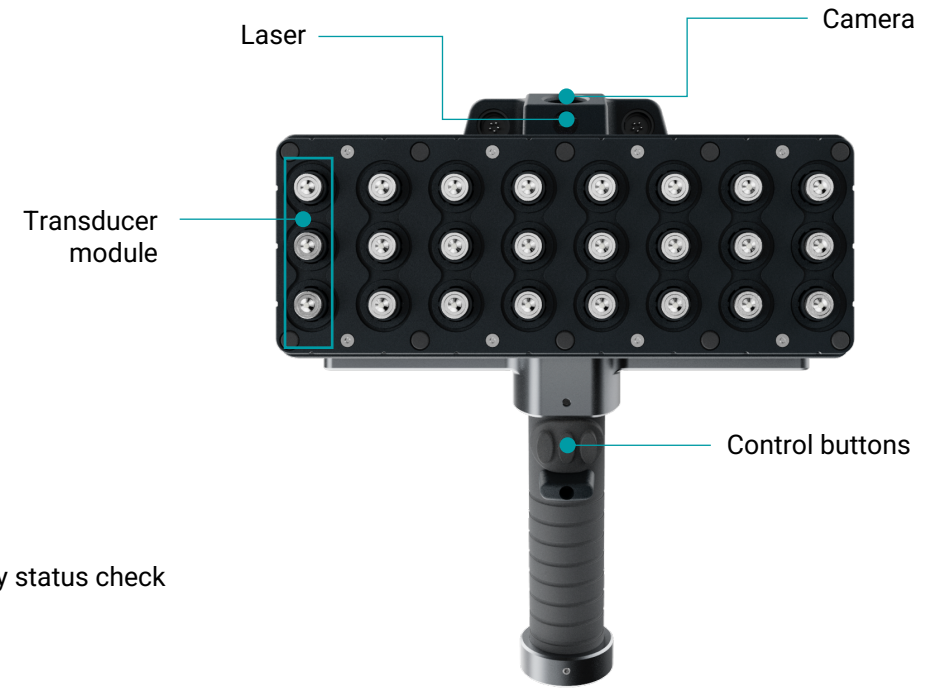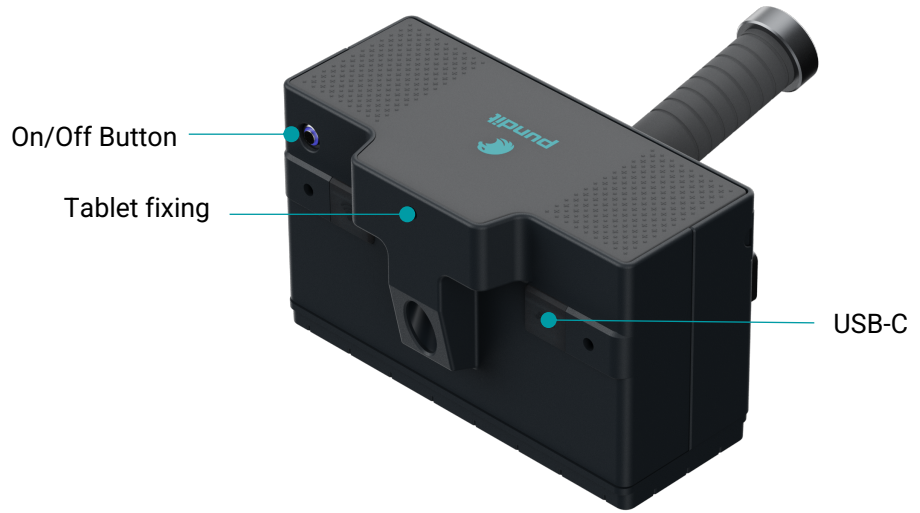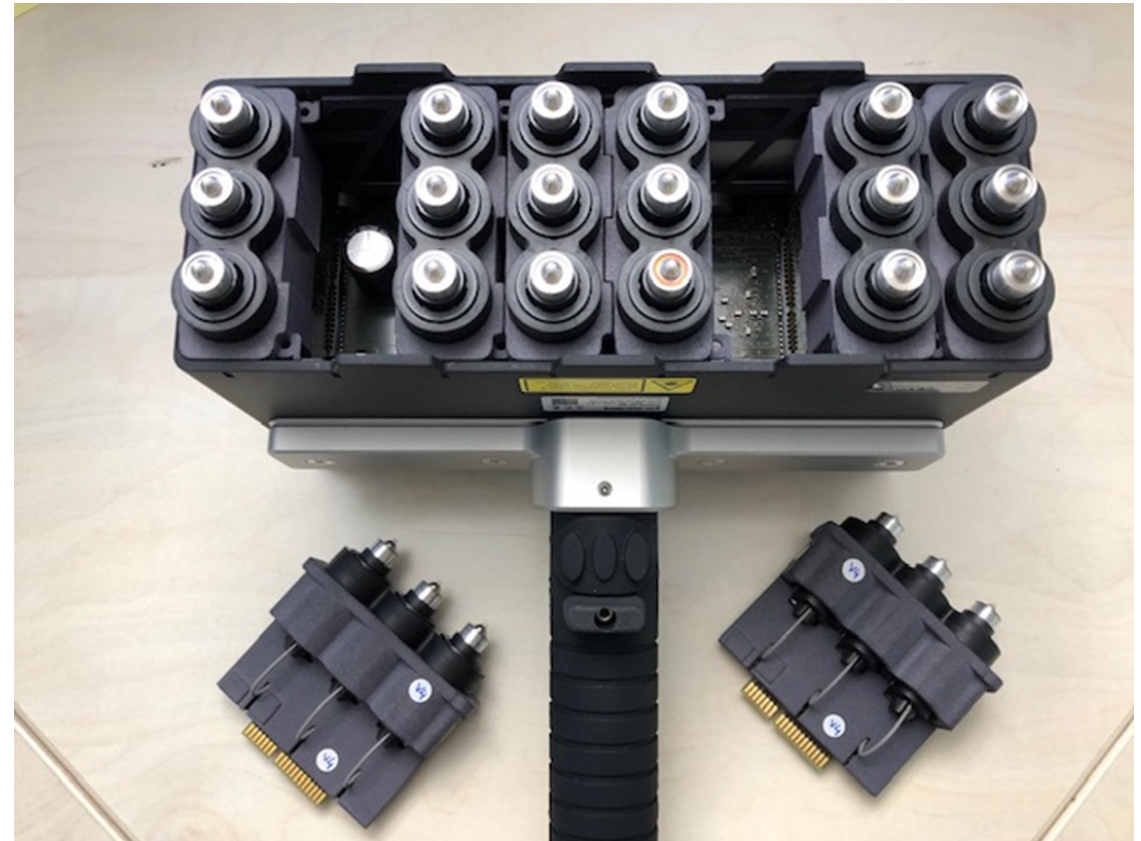
# Modular transducer

- **Replace transducer modules locally**
- **Take advantage of new transducer types (planned)**



- Transducer Module PD8050 – 390 CHF List price (06/2021)

# Standards & Guidelines

- **EN 12504-4 - Testing concrete. Determination of ultrasonic pulse velocity - Europe**

- DGZfP Merkblatt B4  - Germany

- ZTV-ING Teil 5 Tunnelbau - Germany

- ACI 228.2R-13  - North America

New EN standard means pulse echo can now be used for uniformity and compressive strength estimations for the first time - OPPORTUNITY

# Summary

**Performance**

**Future-Readiness**

**Productivity**

Wireless
On-site large scale 2D
On-site 3D
Workspace integration

Extendable probe
Modular transducers
Ever-evolving software

World's lightest array probe
A.I. assisted positioning
Real-time feedback of probe controls
Immediate data visualization

# Overview

# Precast-Construction
**Delamination**

# *Spotlight:* Precast Construction - Delaminations
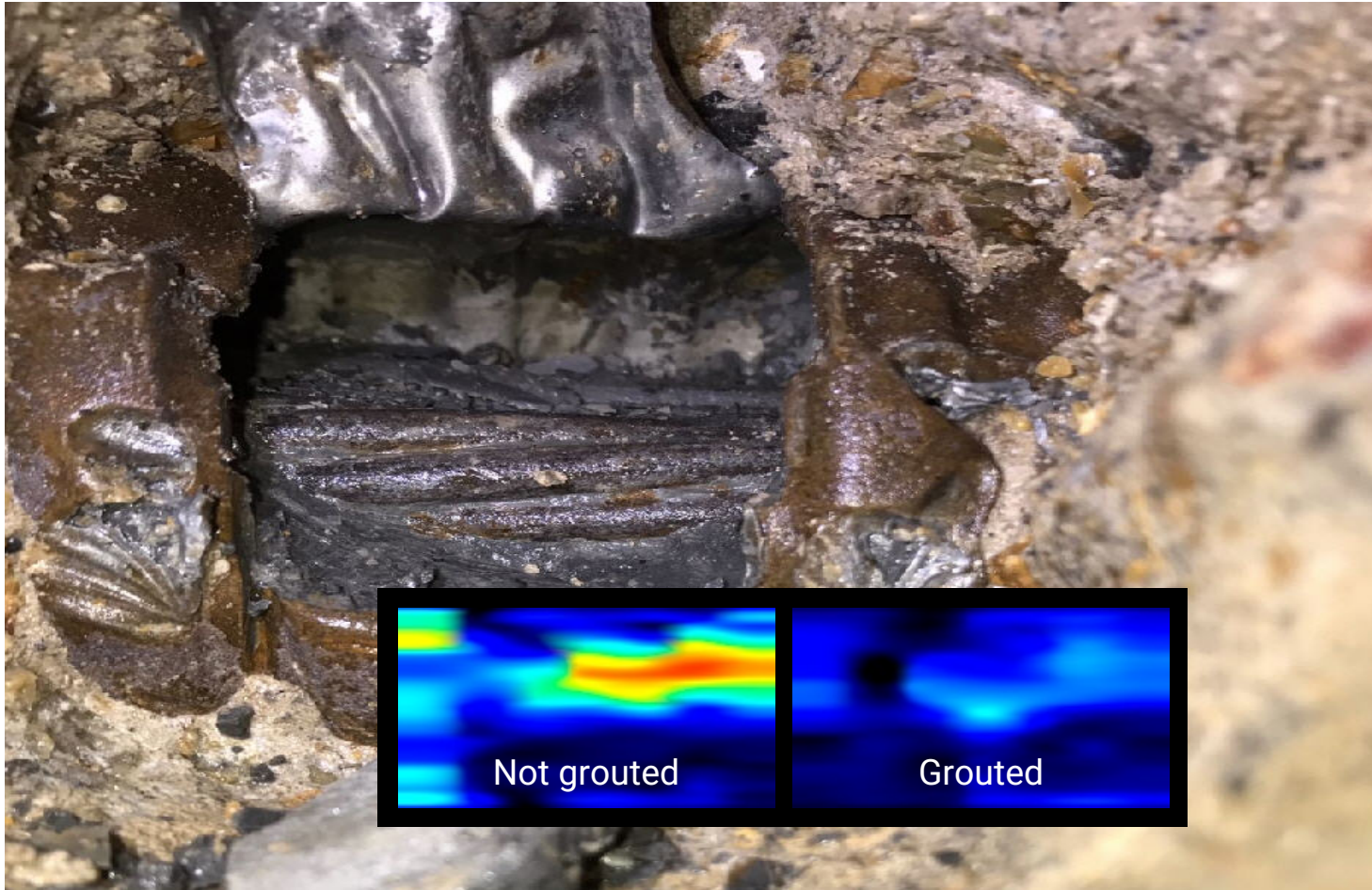


Delamination

Backwall

✓ Location

✓ Extent

✓ Depth

# Tendon-duct
# Inspection

# *Spotlight:* Tendon Duct Grouting Defects



✓ Location

✓ Identification

✓ Grouted / not grouted

# Structural
# Integrity

→

# Tunnel
# Inspection

# Shotcrete
# Walls

→

**Inspection on uneven surfaces**

# Thick
# Structures

# Uncovering
**Mysteries**

# Facade
# Integrity

# Closely-spaced
# Rebars

→

# Single
## Side

→

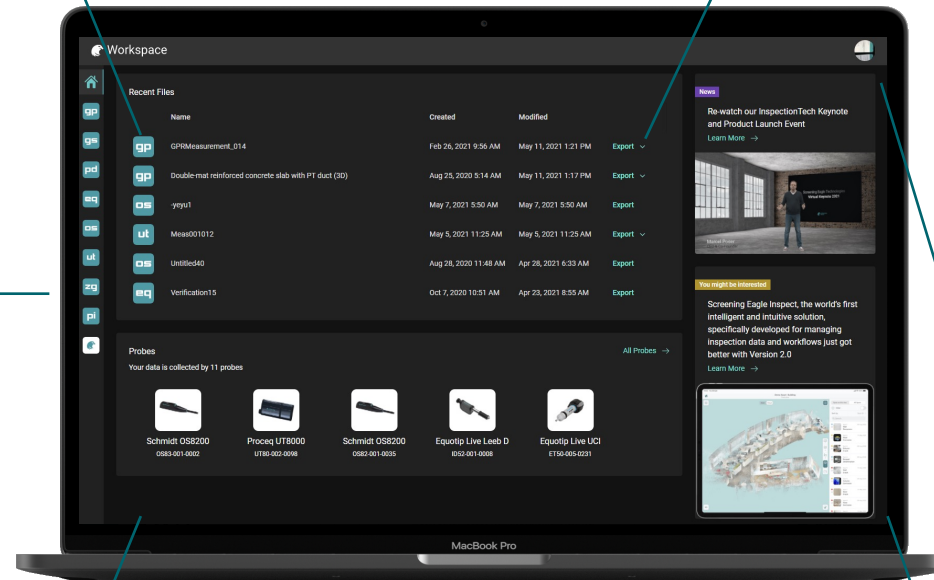# Overview

# Homepage

**Recent Files**
Lists your recently taken and modified measurements

**Your applications**
Access all your collected data at the click of one button

**Your Probes**
You see all probes you have used with your Eagle ID

**Export**
Directly export your recent files

**You account details**
Change your user data, see your subscriptions and more details on your probes

**"You might be interested in"**
Changing marketing content to drive up- and cross-selling
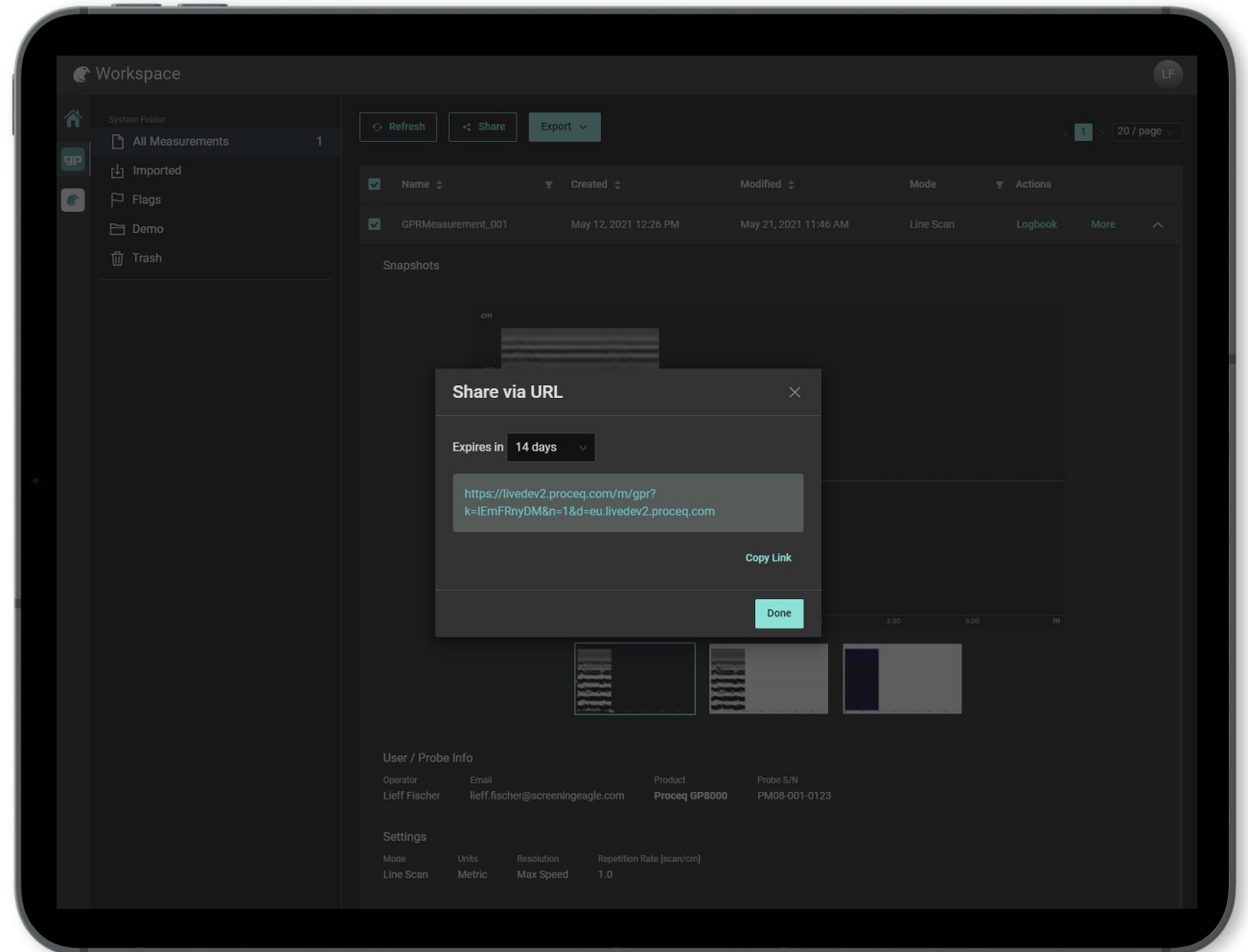
# Manage your Data



Access all your
# Measurement Data

- Access all data with a few clicks, no cables necessary
- Browse though your measurement data, statistics and image snapshots
- Export and download in the format of your choice
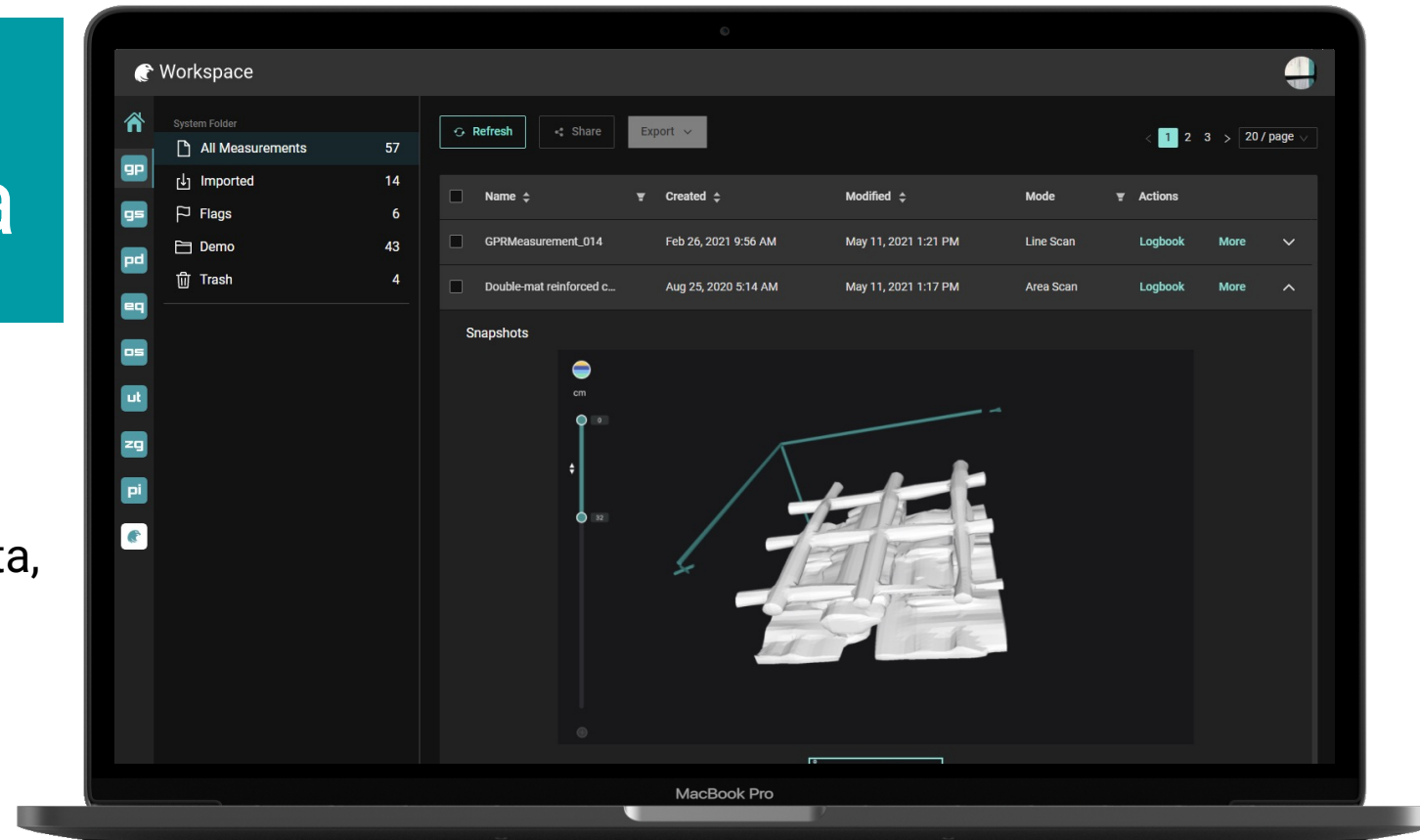
# Collaborate



## Collaborate

- It's never been easier to discuss and share project data, no matter which technology was used on the inspection
- One solution – available globally
- Collaborate and share* your data within your team and with customers

*Full sharing functionality implemented by the end of June

# Manage your Profile
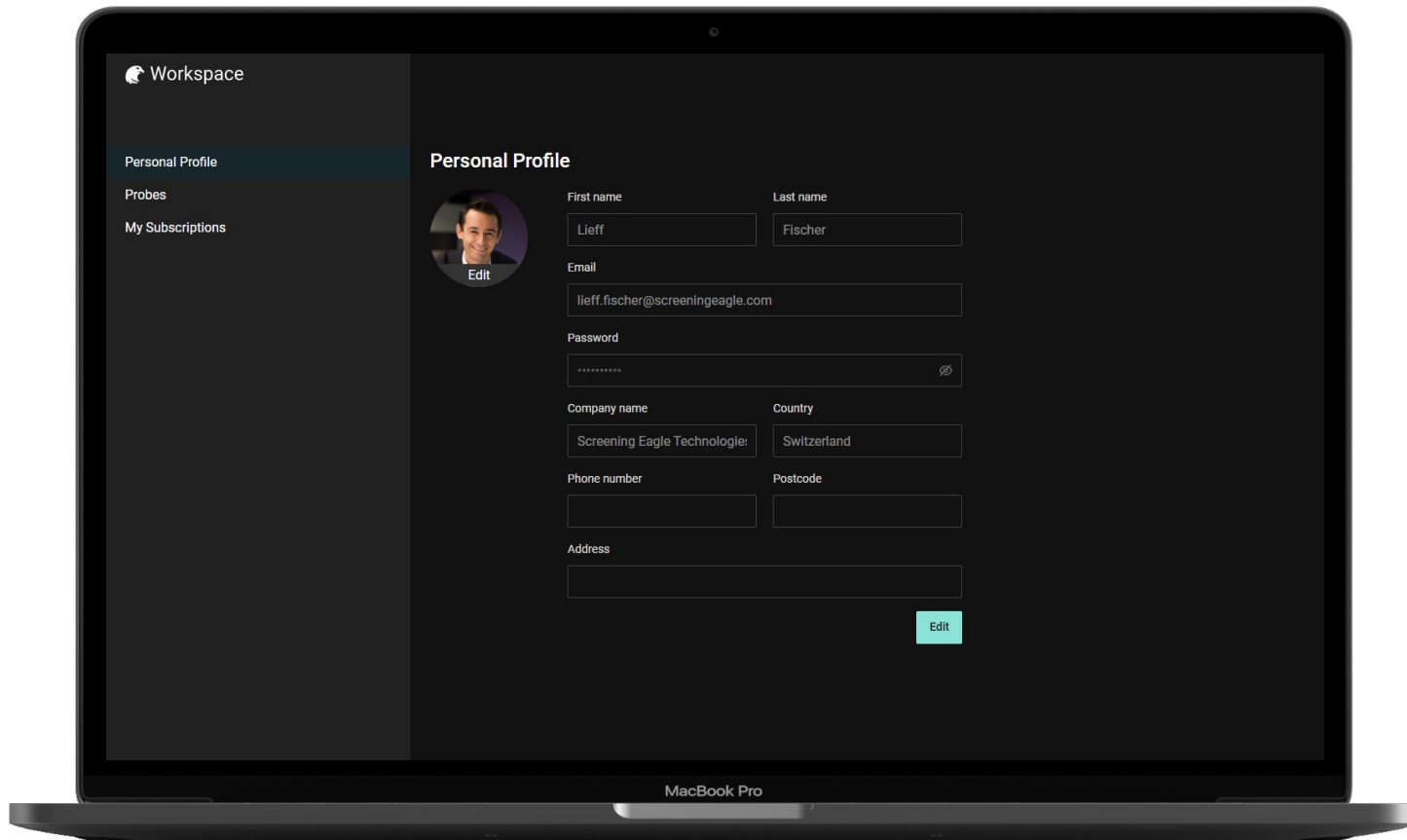


**Manage your**
# Profile

- Manage your user data in one central place
- Reset your password
- View and manage your Screening Eagle Probes and subscriptions*

*Currently only Inspect subscriptions. Probe subscriptions to be added later

# Overview

# Offer Package



**Hardware Purchase**

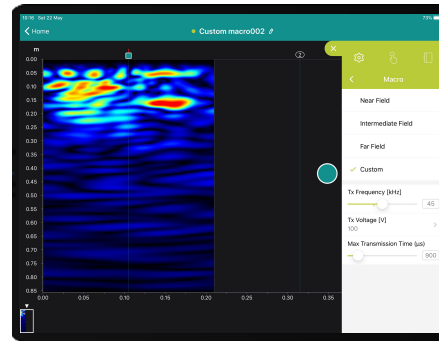**Software Subscription**

**Workspace**

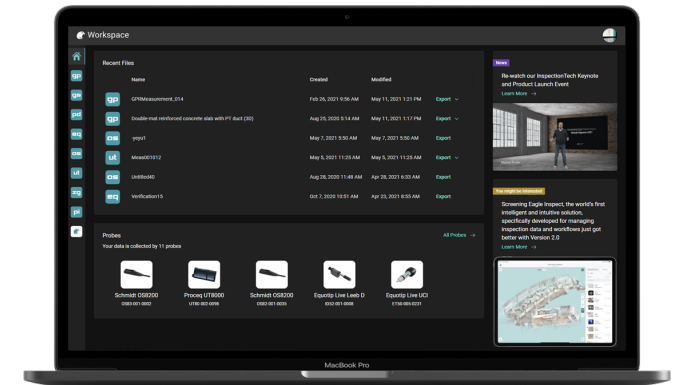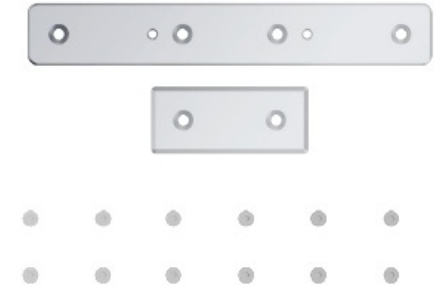**Free of charge**

SAP#     32540400

SAP#     32798202

# Pundit PD8050 accessories



**Dual handle kit**

**16 channel connection kit PD8050**
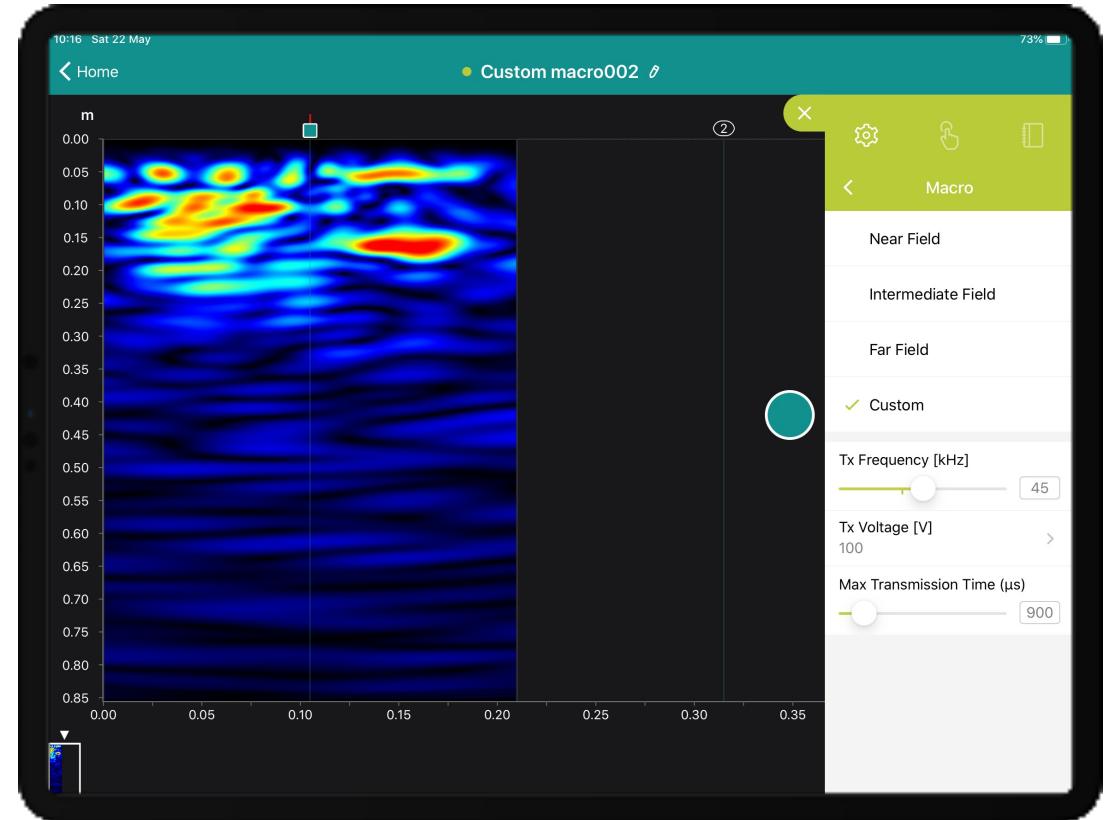
**Evolving Platform**

# App Version 5

## New features:

- **Support for PD8050 sensor**
- **Grid scan measurement mode**
- **Custom macro setting**
- **New SAFT algorithm**
- **Raw data offset**

**Evolving Platform**

# Example – Grid Scan

## You will be able to:

- **Map depth uniformity**
- **Map pulse velocity uniformity**
- **Project heat map onto surface with AR**

PROTECT
THE BUILT
WORLD

**Testing Equipment for** **Construction Materials**

# HUMBOLDT

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