

# ALADDIN

*An Advanced Radar Based Sensor for Nondestructive Structural Analysis*



PATENTED SURVEY KIT

DUAL POLARIZED ANTENNA

PAD SURVEY GUIDE

WIRELESS WI-FI LINK

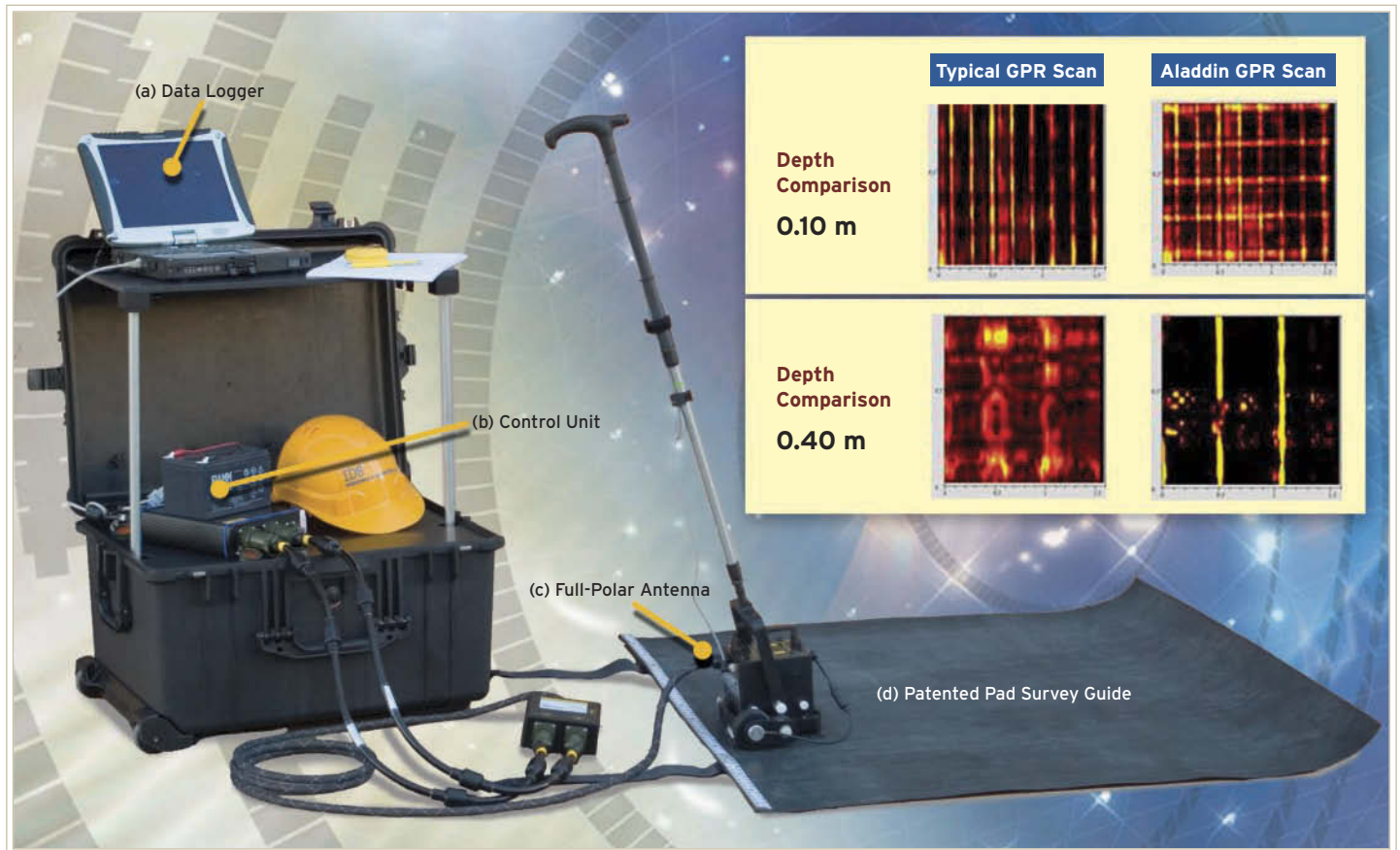
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## The "Aladdin" — Ground Penetrating Radar System



### Hardware

- **High Bandwidth:**

The wide bandwidth antenna centered at 2 GHz, providing for high resolution imaging

- **Dual Polarized:**

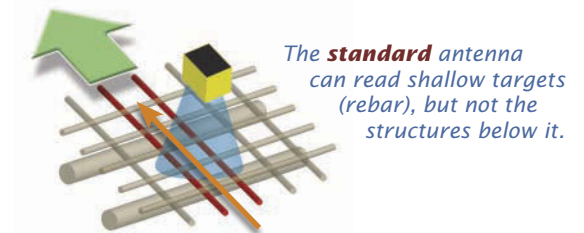
The only antenna available that utilizes dual polarization — you need only to scan in one direction. Identify shallow and deep surveying results in half the time compared to other GPR systems!

- **Wireless WiFi Link:**

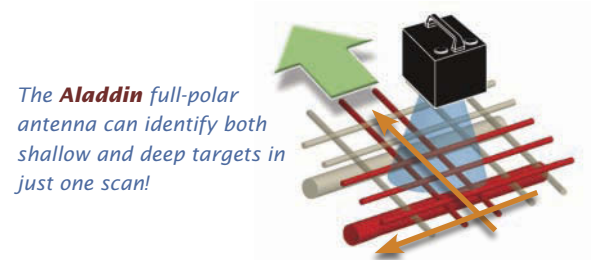
The new DAD FastWave radar control unit(b) features both a wired ethernet LAN and wireless WiFi connections to the Data Logger(a), which is a ruggedized notebook PC supplied by Olson or of the user's choice. The wireless connection is invaluable when testing conditions are less than ideal.

- **Patented Pad Survey Guide Kit:**

Acquire exceptional high resolution 3D images using the pad kit(d)



The **standard** antenna can read shallow targets (rebar), but not the structures below it.



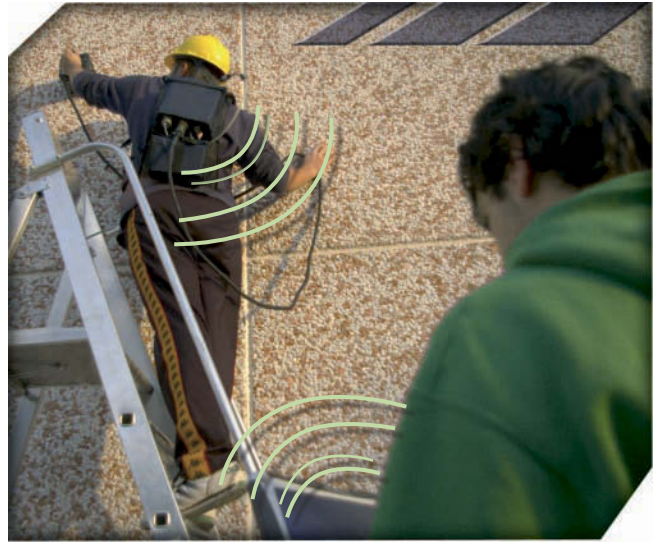
The **Aladdin** full-polar antenna can identify both shallow and deep targets in just one scan!

## Applications

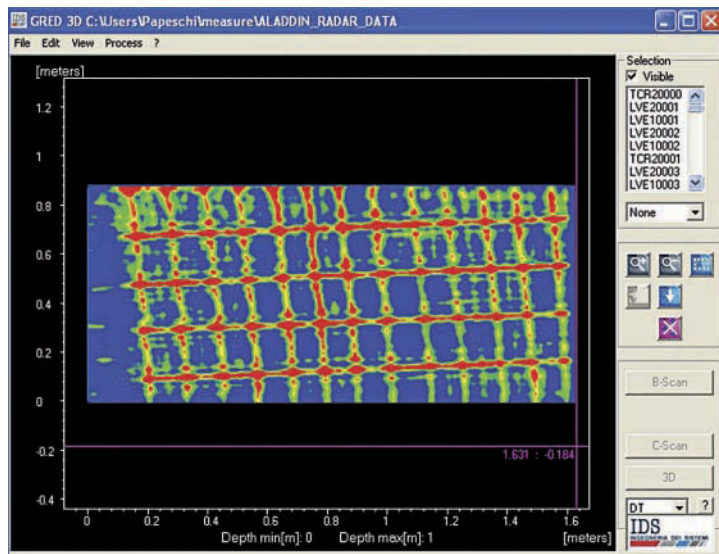
- 3D imaging of shallow and deep rebar in concrete
- 3D imaging of rebar, pre-stress and post-tensioning cables
- Locate voids in concrete
- Concrete thickness and integrity testing
- Inspection and analysis of older structures, monuments and historic buildings
- Locate pipes, hidden objects, caches, etc. in floors and walls

## Benefits

- Cut testing time in half — identify shallow and deep targets in just one scan!
- Deeper surveying for shallow and deep structures
- Highest resolution 3D imaging on the market using the IDS patented pad survey guide
- Easy to use — easy to learn! Training is available



*Wireless link between control unit and data logger permits easy operations in less than ideal situations*

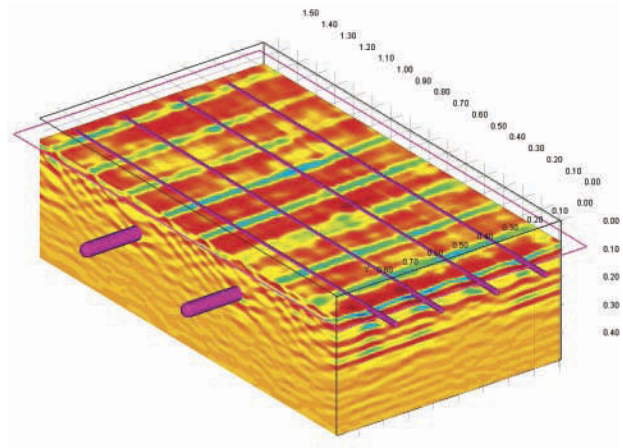


## SOFTWARE

**GRED 3D:** Advanced processing software designed to be the optimal interface for 2D and 3D imaging.

### Key Features:

- Advanced filtering
- Flexible data handling and visualization
- Spatial data representation and processing
- 3D cube representation
- Enhanced interpretation tools
- Standard printing and image export



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## Technical Specifications for the Aladdin System

Antenna	2.0 GHz, Full-Polar
Data Logger	Panasonic Toughbook CF19 PC or similar
Radar Control Unit	DAD Fast Wave 1 Channel
Operative Channels	3
Survey Method (Basic Kit)	Grooved Rubber Pad Survey Guide (PSG)
Remote Control	Handle with Remote Operation Buttons
Pulse Repetition Frequency	Up to 400 KHz
Automated Acquisition Process	Yes
Antenna Dimensions	4.8" x 4.8" x 7.25"
Antenna Weight	4.4 lbs
Battery Life	8 hrs (Aladdin), 7 hrs (Toughbook Notebook PC)
Environmental	IP 65
Elaboration Software	GED 3-D

## Elaboration Software Features

» Advanced 3-D filtering and processing	» Flexible handling and visualization
» Enhanced Interpretation tools	» Standard printing and image exporting
» Easy import and processing of multiple channel data through direct link from K2 acquisition SW	» Multi-channel, multi-frequency data viewing



**Industry Leader in Nondestructive  
Testing & Evaluation Systems  
for Structural Integrity**



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