

SENSORS & SOFTWARE
from RADIODETECTION



NOGGIN[®] **ULTRA 100**

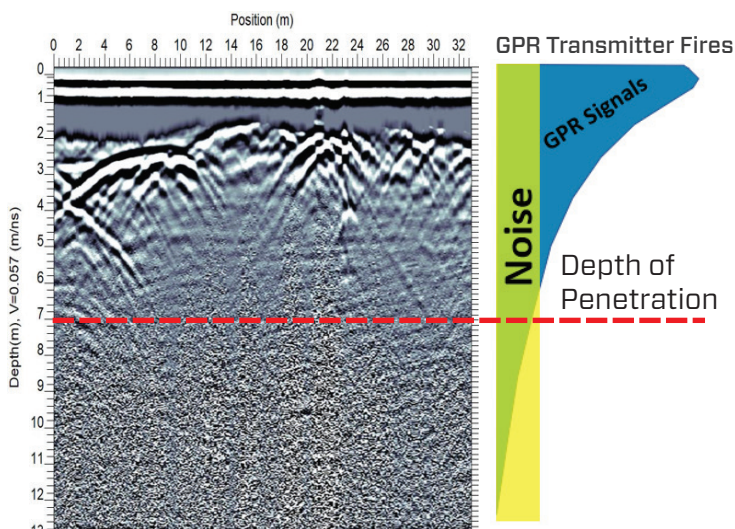
**Adaptable,
High-Performance
Ground Penetrating Radar**



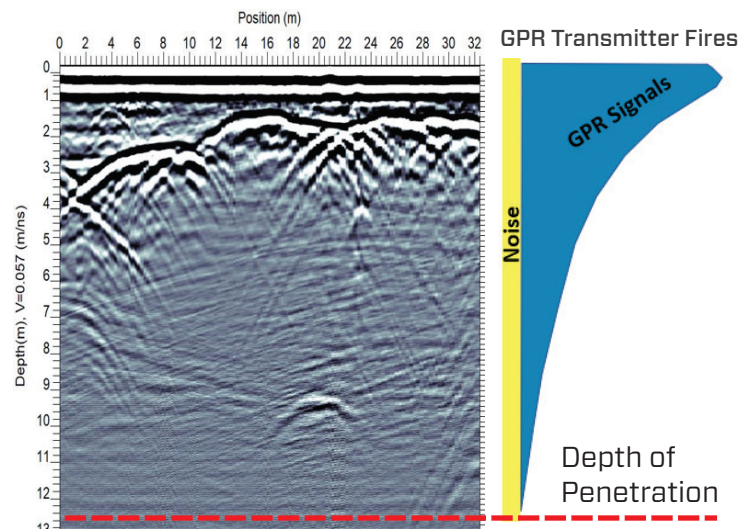
NOGGIN® Ultra 100 Increases Exploration Depth



The NOGGIN® Ultra 100 can stack GPR traces thousands, as many as 65,536 times, reducing the random background noise floor, resulting in deeper GPR penetration than ever before. This technology allows GPR professionals to see signals 100 times smaller than before, greatly increasing the imaging depth. Ultra technology overcomes the regulatory emission limits that currently constrain GPR exploration depth. See more and achieve more with the NOGGIN® Ultra 100.



GPR signal is gradually attenuated until it falls below the noise floor. This is the depth of penetration.



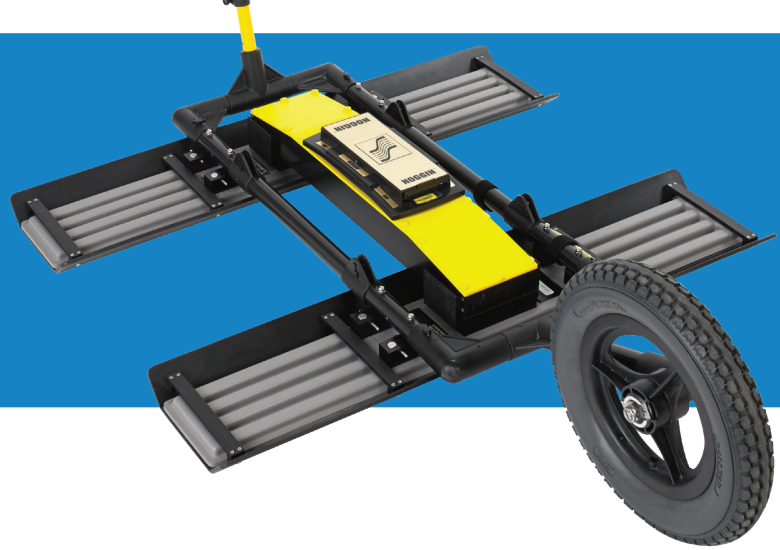
Stacking GPR signals thousands of times lowers the noise floor so weaker, real GPR reflections from greater depth are detected. The NOGGIN® Ultra 100 records these signals in 32-bits.

Ultra Depth

See more than twice as deep

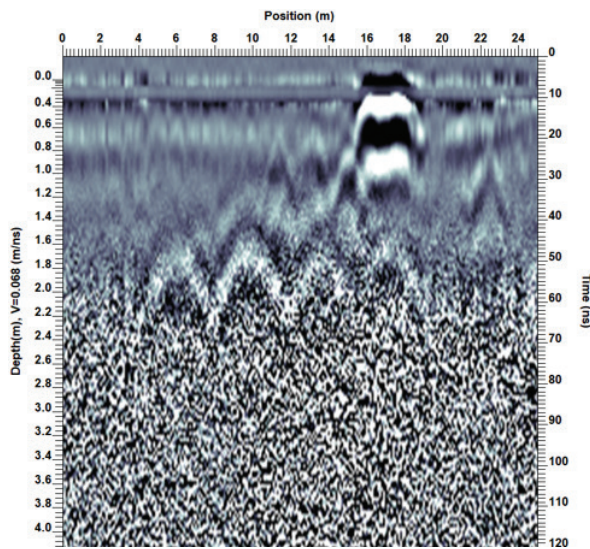
Ultra Detail

See weaker, deeper reflectors

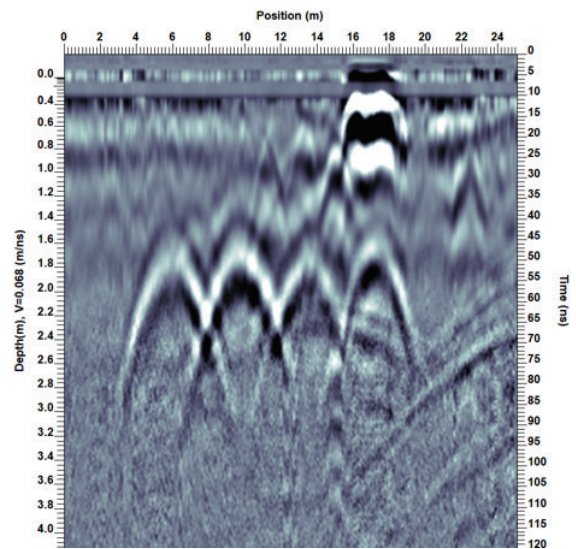


Data Example 1

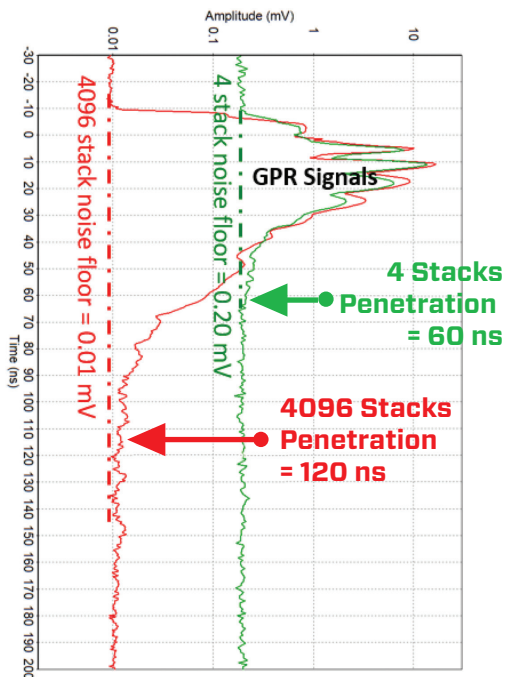
Concrete Storm Water Pipes



4 Stacks



4096 Stacks

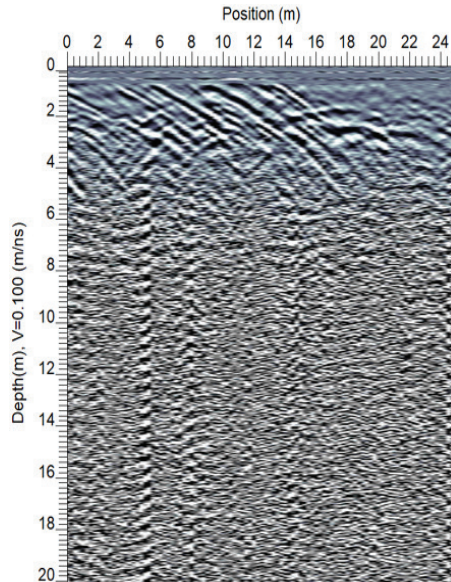


Increasing stacking from 4 to 4096 times:

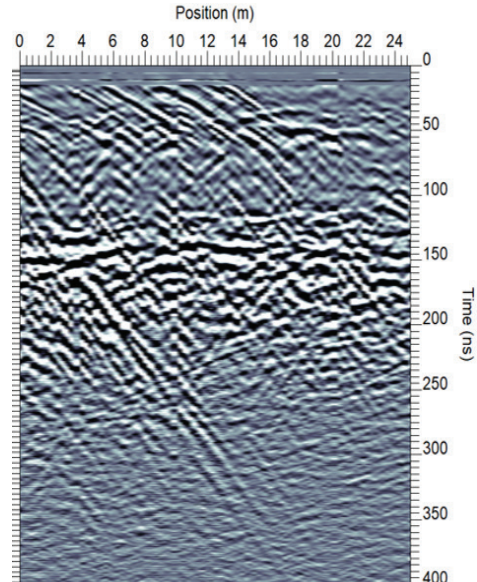
- Decreases the noise floor 20 times
- Increases the depth of penetration by 100%

Data Example 2

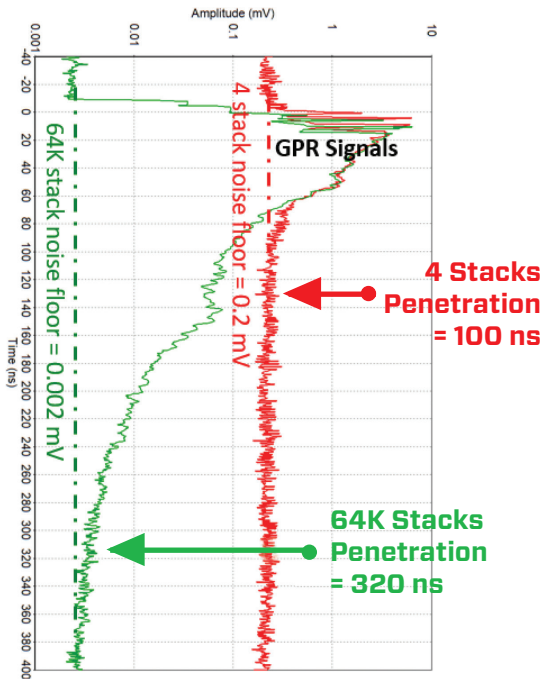
Glacial Beach Deposits



4 Stacks



65,536 Stacks



Increasing stacking from 4 to 65,536 times:

- Decreases the noise floor 100 times
- Increases the depth of penetration by 220%

