# SPIDAR®

## Multi-channel Multi-frequency Multi-fold GPR



The SPIDAR® architecture provides you the flexibility to build any GPR configuration that you need for your projects. SPIDAR® enables multiple NOGGIN® or pulseEKKO® GPR systems to be networked together for multi-channel, multi-frequency and multi-fold GPR data collection, increasing data collection productivity in a wide variety of applications.

The latest generation of SPIDAR®, the NIC-500, simplifies the hardware required to connect the GPRs and provides the following new functionality to enhance data collection and flexibility:

- Full Wi-Fi enabled data collection – no cables are required between the GPR and the control device
- Use any device with Wi-Fi and a compatible web browser to control the GPR and view data collection (no software installation required)
- All data is stored directly on the NIC-500 - no data loss occurs if connection to the control device is interrupted
- No interference between GPR systems
- No reduction in speed when running multiple channels compared to running a single channel
- Daisy-chain NIC-500s to run any number of GPR systems simultaneously; build multi-frequency or multi-channel array systems
- Supports odometer input for triggering & positioning or Free Run
- Optional external GPS
- Data can be downloaded via Ethernet cable, Wi-Fi or USB

# SPIDAR® Configurations

The SPIDAR® architecture provides you the flexibility to build any GPR configuration that you need for your project. Our professional solutions team can help you to build custom deployment configurations to meet the demands of your project, or you can build your own platform.

The NIC-500s come in 3 models:

### 1) NIC-500N

Connects 2 NOGGIN® GPR systems and can be daisy-chained together to collect data with any number of NOGGIN® systems simultaneously.




A multi-channel array of three NOGGIN® 500s with 2 NIC-500Ns daisy-chained together

**Sensors & Software Inc.**

1040 Stacey Court
Mississauga, ON
Canada L4W 2X8

+1 905 624 8909
www.sensoft.ca

### 2) NIC-500P

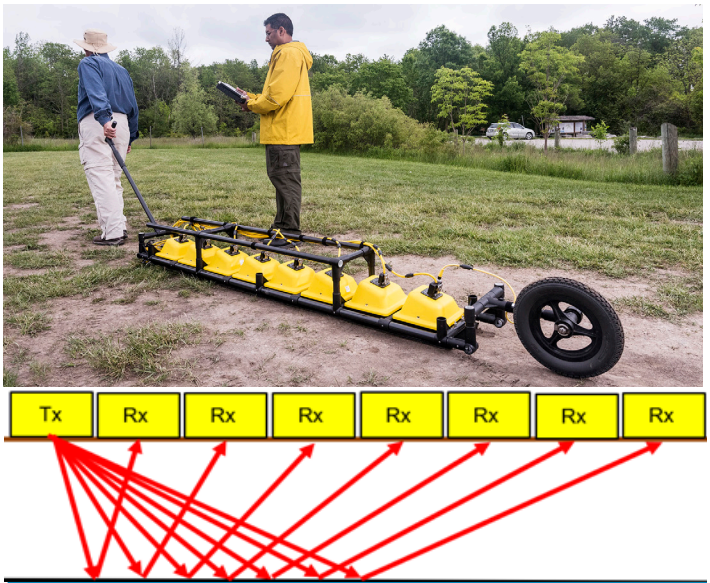
NIC-500P connects 2 pairs of pulseEKKO® transmitters and receivers and can be daisy-chained together to collect data with any number of pulseEKKO® Tx and Rx pairs simultaneously.



A multi-channel array of 6 pairs of pulseEKKO® 500 MHz transducers, created by daisy-chaining 3 NIC-500Ps together

### 3) NIC-500X

An advanced system with 8 transmitter/ receiver ports that enables complex data collection with pulseEKKO® GPR units including configurations beyond standard transmitter and receiver pairs.




The NIC-500X supports concurrent receiver data acquisition; one transmitter firing to several receivers simultaneously, with no interference. This allows creation of system like the “WARR-Machine” featuring 1 Rx and 7 Tx to collect multi-fold Wide-Angle Reflection and Refraction (WARR) data.