GEOSCANNERS
advanced survey systemsv

# PRFPLUS-600™
# The 778 VHP Transmitter Companion




## PRFPLUS-600

The PRFPLUS-600™ is a specially developed support unit that enables SIR® Systems from GSSI to run the very high power transmitter model 778 at high PRF. In fact it makes possible to run the VHP-778 at 100 kHz PRF and 100 scans/seconds on the SIR-3000 without any problems.

GEOSCANNERS AB
VÄSTRA STORGATAN 2, S-29338 OLOFSTRÖM, SWEDEN
http://www.geoscanners.com

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# The problem

The VHP-778 transmitter from GSSI was designed with older SIR® systems in mind and according to their specifications. The newer radar systems are smaller and not capable of providing all the power the VHP-778 demands. The SIR-3000 radar unit complains directly if one tries to run it with a VHP-778 transmitter attached and PRF higher than 6 kHz. Besides the annoying beeping coming from the unit, running the radar in these conditions might damage it, causing expensive and time consuming repairs. All this makes deep surveys with the proper equipment difficult and problematic.

# The solution

The PRFPLUS-600™ was designed to overcome all the above mentioned problems. The radar system connects to the antenna plug-in electronics through the PRFPLUS-600™. The later provides the plug-in electronics with all the necessary control lines and required power. With the PRFPLUS-600® the VHP-778 transmitter can be run at PRF as high as the SIR-3000 supports and scan rates in excess of 100 scans/seconds without any problems.

Deep surveys with new SIR® radar systems demand a PRFPLUS-600™ support unit!

# Short Technical Data

## Scope of application

Antennas 3205 and 3207 from GSSI with VHP-TX778

Subecho-40, Subecho-70 and Subecho-150 from Radarteam Sweden AB® with VHP-TX778v

## Inputs

Antenna control output from SIR® system

Power supply

## Outputs

Antenna control output to 769DA2 or similar

Power supply bi-passed through the unit

## Input voltage

Minimum voltage 10.5 Volts

Maximum voltage 16.5 Volts

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Power consumption (with VHP-TX 778)

| PRF (kHz) | Scans/Seconds | Power (W) |
|---|---|---|
| 6 | 8 | 2.76 |
| 12 | 15 | 3.36 |
| 25 | 30 | 4.23 |
| 50 | 60 | 6.22 |
| 100 | 120 | 9.26 |

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