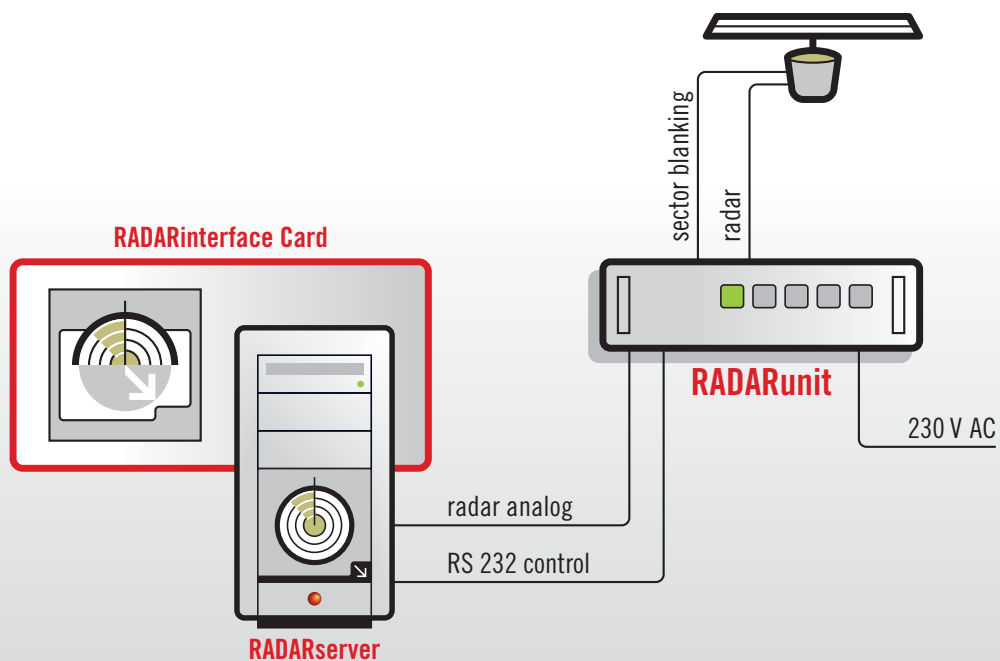


RADARunit

RADARunit comprises a radar antenna and a remote control unit, suited for various surveillance tasks. The components integrate trouble-free with all other software modules provided by in-innovative navigation GmbH. **RADARunit** is ideally suited for application at inland waterways and locks. Configurable blanking sectors allow optimal control of radiation emission. The antenna fulfils the requirements for radar systems by CCNR (Central Commission for Navigation on the Rhine)

and has been proved to be a highly reliable solution on vessels for inland navigation systems. The control unit is connected to RADARserver, running on PC which is located at the radar site. **RADARunit** qualifies for connection to a navigation system as well as for short range surveillance tasks of a stationary system. It provides a cost-efficient module for radar based surveillance, allowing an operator located in a traffic center remote controlling the radar sensor.

Sample configuration of RADARunit



Features

- Complete remote control of the antenna
- High radial resolution due to short pulses
- Blanking sectors configurable
- Common 230 V AC power supply
- Trouble free integration with other software components of in-innovative navigation GmbH
- installation in a 19" rack
(2 RU, mounting depth 365 mm + 40 mm handholds)
- Overvoltage protection for signals to scanner unit



Technical data

<i>transmit frequency</i>	X-band 9410 MHz	<i>polarisation</i>	horizontal
<i>peak power output</i>	4 kW	<i>revolutions per minute</i>	28 R/min
<i>variable puls width</i>	50 ns at 3000 Hz	<i>power consumption</i>	ca. 200 VA
	150 ns at 2000 Hz	<i>ambient temperature limit</i>	
	600 ns at 1000 Hz	<i>for the antenna</i>	-25 °C to 50 °C
<i>avarage transmit power</i>	0,6 / 1,2 / 2,4 W	<i>ambient temperature limit</i>	
<i>radial resolution o the antenna</i>	8 m	<i>for RADARunit</i>	0 °C to 40 °C
<i>horizontal beam width</i>	0,8 degree	<i>number of blanking sectors</i>	2
<i>vertical beam width</i>	20 degree		



Further information about recent developments of innovative navigation systems can be found on the homepage:
<http://www.innovative-navigation.de>

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