

## Description

The HBD-600 is a small footprint UWB UHF GPR-antenna. This antenna can be used not only as a ground coupled, but also in airborne applications. The HBD-600 is top shielded and very well suited for tunnel inspections and avalanche rescue missions. This antenna offers good penetration, bandwidth and resolution. This antenna is fully compatible with GSSI data acquisition systems: SIR-10, SIR-2, SIR-2000, SIR-20 and SIR-3000.



## Applications

- Air-coupled tunnel/sewer inspection
- Air-coupled road base and ballast surveys
- Archeological and forensic surveys
- Unexploded ordinance detection

## Technical Data

Electrical	
Type of device	Hemispherical butterfly dipole
Peak frequency <sup>1</sup>	408 MHz
Center frequency (BW <sub>10dB</sub> ) <sup>1</sup>	480 MHz
10 dB bandwidth <sup>1</sup>	92.2 %
Distance between the TX/RX terminals	170 mm
Voltage applied to antenna terminals	100 V
E-field to H-field ratio <sup>2,3</sup>	7.95 dB
Front to back ratio <sup>1</sup>	-12.86 dB
Gain	N/A
Connector type	SOURIAU 85102E1811P50
Environmental	
Operating temperature	-30°C to 70°C (-22F to 158F)
Operating humidity (non condensing)	96% RH
Ingress protection	IP54
Mechanical	
Dimension (L x W x H)	425 x 235 x 130 mm (16.73 x 9.25 x 5.11 inch.)
Weight	1.85 kg (4.07 pounds)
Material	ABS plastic, UV resistant up to 10 years

Notes: <sup>1</sup>Dielectric constant = 4. <sup>2</sup>The H-field is parallel and the E-field is perpendicular to the long axis of the antenna. <sup>3</sup>Dielectric constant = 1.

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## Contact information

**Telephone:** +46 921 191 91

**Fax:** +46 921 553 39

**Web:** <http://www.radarteam.se/>

**E-mail:** info@radarteam.se

