

ANTENNA EQUIPMENT CHARACTERISTICS

1. Nomenclature / Model No. Antenna Model B1847	1a. Manufacturer's Name 3d-Radar AS Vestre Rosten 81, NO-7075 Tiller, Norway
2. System Nomenclature GeoScope GPR	3. Type Bowtie monopole transmit/receive array (47 elements)
4. Frequency Range 300 MHz – 2.0 GHz	5. Polarization Horizontal
6. Gain (a) Main Beam - 5 dBi (oriented downwards into the ground) (b) Side Lobe -25 dBi	7. Scan Characteristics (a) Type Electronically sequencing between elements (b) Vertical Scan No (1) Max. Elev. N/A (2) Min. Elev. N/A (3) Scan Rate (c) Horizontal Scan (1) Sector Scanning N/A (2) Scan Rate 10 – 160 Hz
8. Beamwidth (a) Horizontal 70 degrees (b) Vertical 70 degrees	

9. Remarks

The antenna Model B1847 is a wideband linear antenna array for ground penetrating radar containing 47 antenna pairs with element separation of 3.75 cm. The length of the antenna array is 180 cm. The antenna array is located very close to the ground (5 – 10 cm elevation), and the main radiation is directed towards the ground. The array is scanned electronically by connecting the transmitter and receiver sequentially to each of the 47 antenna pairs.