DXG Antenna Array Series is the ultimate tool for mapping and detection of shallow and deep subsurface objects. Its three-dimensional, high-accuracy, high-resolution and high-definition subsurface data is quickly collected and analyzed. DXG is the most wideband antenna array on the market with a frequency range between 200 MHz - 3 GHz, maximizing the resolution at each depth level.

The unique wideband antenna design consists of bow-tie monopole antennas. The combination of different transmitter/receiver antenna elements allow the user to collect high density three-dimensional data along multiple parallel survey lines, with a channel spacing of 7.5 cm. The antenna is equipped with a standard 5/8” thread mount for easy mounting of a global positioning system (GPS) antenna or TotalStation prism.

FEATURES & BENEFITS
- Unique combination of high-resolution near-surface imaging and deep penetration capabilities.
- Locates structures and utilities at deeper depths without sacrificing resolution.
- Three standard models offer a variety of widths and coverage options.
- Captures wide swaths of survey data in one pass.
- Quickly track pipes, utilities, rebar and other structures.
- Wider antenna arrays ideally suited for large scale utility mapping and fieldwork.
- Narrower arrays enable survey in narrow corridors and small areas.
- Simultaneous data recording from two receiver antennas for faster rate with no loss of fidelity.
- Lane closures shortened, safer working environment and less time spent in the field.
- Support for multi-offset data recording.
- Built-in GPS receiver for coarse positioning and precise time reference standard.
- Delivered and stored in rugged shipping container for safe storage and transportation.

APPLICATION AREAS
- Road Pavement
- Aircraft Runway
- Bridge Deck
- Railroad Ballast
- Utility Mapping
- Archaeology

DXG collected bridge deck data displayed in Examiner™. Note both the interface layers between the asphalt overlay, concrete are clearly visible, along with individual rebars.
The combination of GeoScope™ Mk IV 3D GPR radar unit and DXG ground-coupled antenna array maximizes both vertical and horizontal resolution at different depths: it makes it possible to resolve closely spaced rebars as well as imaging utilities buried deeper into the ground.

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>TECHNICAL SPECIFICATIONS</th>
<th>DXG0908</th>
<th>DXG1212</th>
<th>DXG1820</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>0.9 m</td>
<td>1.2 m</td>
<td>1.8 m</td>
</tr>
<tr>
<td>Frequency Range</td>
<td>200-3000 MHz</td>
<td>200-3000 MHz</td>
<td>200-3000 MHz</td>
</tr>
<tr>
<td>Number Of Channels</td>
<td>8</td>
<td>12</td>
<td>20</td>
</tr>
<tr>
<td>Channel Spacing (Cross-Line)</td>
<td>75 mm</td>
<td>75 mm</td>
<td>75 mm</td>
</tr>
<tr>
<td>Effective Scan Width</td>
<td>0.6 m</td>
<td>0.9 m</td>
<td>1.5 m</td>
</tr>
<tr>
<td>Direct Wave Suppression</td>
<td>&gt; 50 dB</td>
<td>&gt; 50 dB</td>
<td>&gt; 50 dB</td>
</tr>
<tr>
<td>Polarization</td>
<td>Linear (in-line direction)</td>
<td>Linear (in-line direction)</td>
<td>Linear (in-line direction)</td>
</tr>
<tr>
<td>Size (LxWxH m)</td>
<td>0.945 x 0.795 x 0.14</td>
<td>1.245 x 0.795 x 0.14</td>
<td>1.845 x 0.795 x 0.14</td>
</tr>
<tr>
<td>Weight</td>
<td>19 kg</td>
<td>25 kg</td>
<td>38 kg</td>
</tr>
<tr>
<td>Transport Container Size</td>
<td>1.0 x 0.92 x 0.205</td>
<td>1.295 x 0.92 x 0.205</td>
<td>1.895 x 0.92 x 0.205</td>
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<tr>
<td>Transport Container Weight</td>
<td>20 kg</td>
<td>22 kg</td>
<td>32 kg</td>
</tr>
</tbody>
</table>

Note: Specifications subject to change. Other sizes are available on a custom order basis. Contact 3D-RADAR for additional details.

**ACCESSORIES**

- Two-wheel, light-weight trailer
- Antenna cables (up to 8 m length)
- DMI/Odometer with wheel adapter

**3D-RADAR RELATED PRODUCTS**

- DX Antenna Array Series
- GeoScope™ Mk IV 3D GPR
- Examiner™ Software

Transmitting and receiving elements of the DXG1820. Other models have identical element spacing but with different number of channels depending on the antenna width.