Multi Channel and UWB GPR Systems compared with Basic GPR

The Multi Channel or UWB GPR Systems are the most advanced of all for utility location. Both shallow and deep targets can be detected in one survey without changing antennas. They are recognized by a high operating bandwidth.

### Pictures of Multi Channel/UWB Systems

![Multi Channel/UWB Systems](image)

### Basic GPR

- **Model:** Ditch Witch Electronics/USA
- **Number of Channels:** 1 or 2
- **Operating/Effective Bandwidth (MHz):** 125-900
- **Center Frequency (MHz):** 250 and 700
- **Depth Range (TWT in ns):** 128 fixed
- **Number of Operating Modes:** (1) Ground-coupled
- **Antenna “footprint” (cm):** 53 x 40
- **Folded size, (max LxHxW cm):** 66 x 27 x 50
- **Operating size, (max LxHxW cm):** 100 x 120 x 50 adjustable
- **Trolley/Cart with distance encoder:** Integrated Cart and encoder
- **Sampling Interval (cm):** Selectable 1-5 cm (20-100 scans/m)
- **Data Collection Software for PDA included:**
- **Gain and Background Removal included:**

### Summary, amount of features (%):

- Ditch Witch Electronics/USA: 52%
- Cobra WiFi GPR: 100%
- e-Spade: 33%
- Detector Duo: 48%
- Utility Scan DF: 67%
- Easy Locator GPR: 24%

*Unique features for Cobra WiFi*