

# Kontur Ground

The versatile all-rounder, handling both near-surface and deep subsurface mapping.



**Kontur Ground™** is the ultimate tool for mapping and detection of shallow and deep subsurface objects and features. This antenna array provides a unique combination of high-resolution, near-surface imaging and deep subsurface penetration. The Kontur Ground array locates structures and utilities at deeper depths without sacrificing resolution, and is used for applications such as bridge deck inspection, utility mapping, airport maintenance, railways and road condition monitoring .

**Kontur Ground™** is the most wideband antenna array on the market, operating on the entire frequency band from 40 MHz to 3,000 MHz in up to 28 channels, resulting in more signal response and more details at all depths. The recorded data is transformed into a true 3D data cube using the Examiner software enabling a detailed breakdown of the ground

The antenna is equipped with a standard 5/8” thread mount for easy mounting of a global positioning system (GPS) antenna or Total Station prism.

## Key features and benefits

— Gives you access to many different applications.

— Unique combination of high-resolution near-surface imaging and deep penetration capabilities.

— Locates structures and utilities at deeper depths without sacrificing resolution.

— Five standard models offer a variety of widths and coverage option.

— Captures wide swaths of survey data in one pass.

— Quickly track pipes, cables, rebar, layers and other structures.

— Wider antenna arrays ideally suited for large-scale utility mapping and large area projects.

— Narrower arrays enable survey in narrow corridors and small areas.

— Support for multi-offset data recording.

— Lane closures shortened, safer working environment and less time spent in the field.

— Built-in GPS receiver for coarse positioning and precise time reference standard.

— Delivered and stored in rugged shipping container for safe storage and transportation.



## Technical specifications

	G0908	G1212	G1820	G2124	G2428
<b>Number of channels</b>	8	12	20	24	28
<b>Effective scan width</b>	0.6 m/ 2 ft	0.9 m/ 3 ft	1.5 m/ 5 ft	1,8 m/ 6 ft	2.1 m/ 7 ft
<b>Size (L x W x H m)</b>	0.9 x 0.8 x 0.2	1.2 x 0.8 x 0.2	1.8 x 0.8 x 0.2	2.1 x 0.8 x 0.2	2.4 x 0.8 x 0.2
<b>Weight</b>	19 kg	25 kg	37 kg	45 kg	50 kg
<b>Transport container size (L x W x H m)</b>	1.0 x 0.9 x 0.2	1.3 x 0.9 x 0.2	1.9 x 0.9 x 0.2	2.2 x 0.9 x 0.2	2.5 x 0.9 x 0.2
<b>Transport container weight</b>	39 kg	47 kg	77 kg	82 kg	92 kg

## Applicable to all antennas

**Frequency range ETSI:** 40 - 3000 MHz  
**FCC:** 150 - 3000 MHz

**Channel spacing:** 75 mm/ 3 in  
(Cross line)

*Note: Specifications are subject to change. Other Kontur Ground antenna array widths are available on a custom order basis. Contact the Kontur team for additional information at [sales@kontur.tech](mailto:sales@kontur.tech)*

## Application areas

### AIRPORTS

Ideally suited for aviation environments, Kontur Ground provides a multi-application, large scale evaluation method that is repeatable.

### UTILITY MAPPING

Locates structures and utilities at deeper depths without sacrificing resolution. Quickly track pipes, utilities and other structures.

### BRIDGE DECK INVESTIGATION

Comprehensive, accurately positioned coverage in high resolution for detailed bridge deck evaluations including layers and rebar conditions.

### ARCHAEOLOGY

Increased depths, multichannel antenna array support and high resolution reduce data collection time while providing the best possible imagery.

### RAILROAD INSPECTION

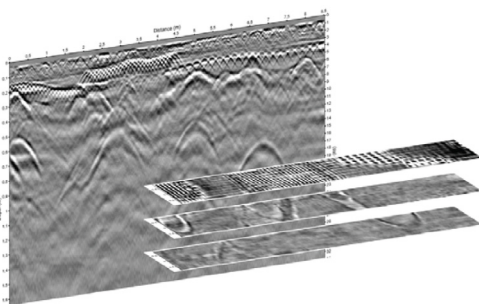
Programmable to utilise unique scan patterns enabling a “look under rails” capability.

### Accessories

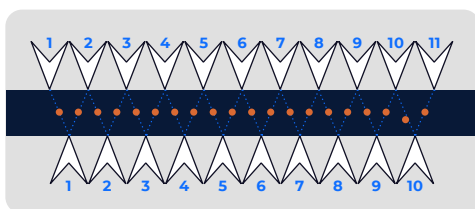
- **Skid plate**
- **Two-wheel, light-weight trailer**
- **Antenna cables – in 3m, 6m or 8m length**
- **DMI/Odometer with wheel adapter**

### Related Kontür products

- **Kontur Air™**
- **Kontur Deep™**
- **GeoScope™**
- **Examiner™ Software**



**Figure 1** The combination of the GeoScope™ GPR radar unit and the Kontur Ground™ ground-coupled antenna array maximises 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. (Image: Zetica).



**Figure 2** Transmitting and receiving elements of the Kontur Ground™ G1820. Other models have identical element spacing but with different number of channels depending on the width of the antenna array.



**CODEVINTEC**  
Tecnologie per le Scienze della Terra e del Mare

Codevintec Italiana srl

**Milano  
Roma**

via Labus, 13 – 20147 Milano  
Lungomare P.Toscanelli,66 – 00122 Roma

[info@codevintec.it](mailto:info@codevintec.it)  
[www.codevintec.it](http://www.codevintec.it)

ph +39 02 4830.2175