

# Leica DT100 and DE100

Outstanding utility detection at your fingertips



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when it has to be **right**

**Leica**  
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# DT100 Precision Locator

## Technical Specifications

| MODE                              | DT100   |
|-----------------------------------|---|
| Frequency Range                   | 50Hz - 200kHz   |
| Sensitivity                       | 33kHz (1µA at 1m)   |
| Dynamic Range                     | 117dB   |
| Max Automatic Depth               | 6m / 20ft   |
| Max Pushbutton Depth              | 11m / 36ft  |
| Locate Accuracy                   | ±5% depth   |
| Dynamic Overload Protection       | 60dB (automatic)  |
| Depth Accuracy                    | - In line ±5% to 3m / - In line ±5% to 10ft<br>- Sonde ±5% to 3m / - Sonde ±5% to 10ft<br>- Passive ±5% to 3m / - Passive ±5% to 10ft   |
| Factory Standard Frequencies (Hz) | - Power: 50,60, 150, 180, 450, 540<br>- Grouped Power: 50,60 (+odd harmonics up to ~1.1kHz)<br>- Radio: bandwidth approx 13kHz - 28kHz<br>- Cathodic:<br>- 120Hz for 60Hz<br>- 100Hz for 50Hz<br>- Active: 256, 263, 440, 512, 560, 577, 640, 815, 870, 940, 1.02k, 1.17k, 3.14k, 4.1k, 8.01k, 8.19k, 9.82k, 12.1k, 16.3k, 22.5k, 29.4k, 32.8k, 44.5k, 66.1k, 88.8k, 99k, 132k, 200k<br>- Sonde: 512, 640, 8.19k, 32.8k |
| Locate Direction                  | Any frequency from 256Hz to 10kHz   |
| Fault-finding DE based            | 263Hz   |
| Active Locate Mode                | - Twin<br>- Single Peak<br>- Null<br>- Twin Sweep (Omnidirectional)<br>- Single Sweep (Omnidirectional)   |
| Gain Control                      | Manual gain using "↑" or "↓" buttons  |
| Alerts                            | - Strike Alert<br>- Swing Warning<br>- Overread Cable   |
| Frequency Analyzer                | Determines the best frequency option based on environmental interference  |
| Autoshutdown                      | Selectable via settings menu  |
| Connectivity                      | Bluetooth low energy (BLE)  |
| Available accessory               | Ring Clamp  |
| Languages                         | 22 languages user selectable:<br>English, Spanish, French, German, Italian, Polish, Dutch, Portuguese, Russian, Swedish, Danish, Estonian, Norwegian, Latvian, Lithuanian, Czech, Finnish, Greek, Hungarian, Romanian, Chinese, Korean  |
| Backlight                         | Selectable via settings menu  |
| Units                             | Metric and Imperial - selectable via settings menu  |
| Environmental Protection          | IP65  |
| Operating Temperature             | -20 °C to +50 °C / -4°F to +122°F   |
| Storage temperature               | -32°C to +70°C / -25°F to +158°F  |
| Battery                           | Li-Ion Battery Pack 3200mAh - 11.1V, 35.5Wh<br>6 X AA Alkaline Battery  |
| Battery Life                      | - With Lithium: 15 hours continuous - 30 intermittent<br>- With Alkaline: 5 hours continuous - 10 intermittent  |
| Dimensions (HxWxD)                | 68x14.7x32.6 cm - 26.7x5.8x12.7 in  |
| Weight with batteries             | 2.1kg - 4.8lbs  |



# DE100 Signal Transmitter

## Technical Specifications

| MODE                              | DE100  |
|-----------------------------------|--|
| Frequency Range                   | 256Hz - 200kHz   |
| Power Output                      | Up to 10 Watt with Li-Ion battery (1Watt above 45kHz)<br>Up to 5 Watt with Alkaline battery  |
| Current Max                       | 1A - (0.5A Above 45kHz)  |
| Voltage Max                       | 90 V rms   |
| Factory Standard Frequencies (Hz) | - Direct Connect and Clamp: 256, 263, 440, 512, 560, 577, 640, 815, 870, 940, 1.02k, 1.17k, 3.14k, 4.1k, 8.01k, 8.19k, 9.82k, 12.1k, 16.3k, 22.5k, 29.4k, 32.8k, 44.5k, 66.1k, 88.8k, 99k, 132k, 200k<br>- Induction: all listed above starting at 3.14kHz |
| Modes                             | Direct Connect, Clamp and Induction  |
| Multimeter Function               | Watts, Current, Ohms and Volts   |
| Output                            | Dual Output for Clamp and Direct Connect   |
| Locate Direction                  | User enabled. Any frequency up to 10 kHz   |
| Protection                        | High voltage isolation   |
| Warnings                          | - High Voltage - up to 100 V - visual indication<br>- Destructive Voltage - > 100 V - visual indication  |
| Autoshutdown                      | Selectable via settings menu   |
| Available accessory               | Clamp and Crocodile leads  |
| Languages                         | 22 languages user selectable:<br>English, Spanish, French, German, Italian, Polish, Dutch, Portuguese, Russian, Swedish, Danish, Estonian, Norwegian, Latvian, Lithuanian, Czech, Finnish, Greek, Hungarian, Romanian, Chinese, Korean                     |
| Environmental Protection          | IP65   |
| Operating Temperature             | -20 °C to +50 °C / -4 °F to +122°F   |
| Storage temperature               | -32°C to +70°C, / -25°F to +158°F  |
| Battery                           | Li-Ion Battery Pack 6400 mAh - 14.8V , 94.7Wh<br>8 x LR20 Alkaline   |
| Battery Life                      | - Lithium: 17 hours continuous - 34 hours intermittent<br>- Alkaline: 10 hours continuous - 20 hours intermittent  |
| Dimensions (HxWxD)                | 21x19.3x38.1 cm - 8.3x7.6x15 in  |
| Weight with batteries             | 3.6kg - 7.9lbs   |



## **Leica Geosystems – when it has to be right**

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