



Advanced Features

GRIDGIS Map Creator App



Speed up field working time
 Smart data collection
 Simplify data transfer and avoid mistakes

- Records information of Secondary Substation utility assets, along with pictures (SS Name, Transformer, LV Panel, LV Feeders, LV and MV cable types, MV Switchgear, etc)
- Wireless Bluetooth connection with main advanced cable locators on the market, such as MRT- 700 Underground Cable and Pipe Locator
- Includes metadata information on each captured point, such as depth, amount of signal (mA), etc.
- Once the mapping is done, it is stored in the desired format to be used by any GIS system
- Register network asset elements: manholes, power boxes, feeder pillars, etc.
- Draw cable paths on map with GPS
- Track work progress

www.ariadnagrid.com

merytronic

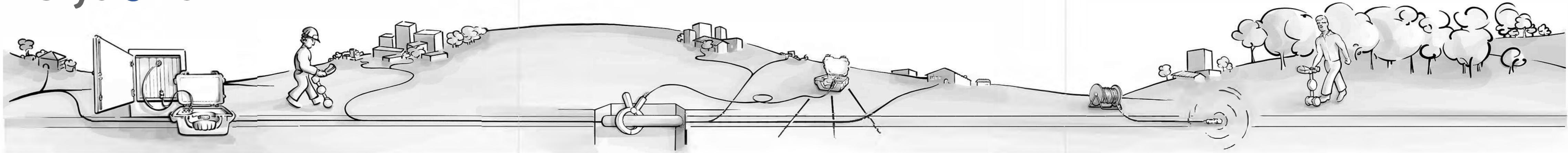
P.E. Boroa - Parcela 2C-1
 48340 AMOREBIETA
 Vizcaya - SPAIN

merytronic@merytronic.com
www.merytronic.com
 +34 94 605 24 62

Distribution network
 mapping solution

MRT-700
 Underground cable
 and pipe locator

merytronic
 gorian



Underground cable and pipe locator

MRT-700



MRT-700 locates Underground Cable and Pipes quickly and easily with accurate confidence energized and de-energized MV and LV distribution networks

- 7 Sensors strategically distributed
- 10W Output Power selectable by user
- High Precision (within 10 cms in all axis)
- Automatic display of depth and current amplitude measurement
- Correct performance exceeds 10 km cable length
- More than 12 hours operation at maximum power
- Rechargeable Li-Ion batteries in TX and RX
- Up to 10 mts depth
- Operation temperature -20 °C / +60 °C
- Protection: IP54

Locator

Virtual cable representation in a TFT-LCD with complete information to trace underground cables in an easy drive and light receiver

- Information Displayed**
- Depth (10 meters)
 - Current amplitude
 - 50/60 Hz cables discrimination antenna
 - Gain
 - Target line with compass
 - Tracing frequency
 - Mode
 - Signal power

- Push Buttons**
- Menu
 - Frequency Selector
 - Mode Selector
 - Manual Gain increase
 - Manual Gain reduction
 - Automatic Gain Increase/reduction

- Bluetooth & GPS**
- Bluetooth connection with compatible GPS Devices
 - Built-in GPS accuracy less than 1 m

Bluetooth
connection with specially developed Smartphone/Tablet App for GPS mapping and export to GIS software



- Active Frequencies:**
- Direct connection (De-energized Cables or Tubes) 640 Hz
 - 8/32 KHz
 - Current Direction (320-640 Hz)

- Induction Clamp (Live or De-energized Cables) 8/32 KHz

- Induced Built-in Antenna 8/32 KHz

- Passive Frequencies:**
- Prelocation of Power Cables 50/60 Hz

- Sondes (Non conductive Tubes) 8/32 KHz

- Radio frequency band (prelocation of conductive tubes) 14-27 KHz

- Optional cable identification:**
- De-energized cables

- Singles & multicore cables

- Detects active signal's Amplitude and Polarity

- Automatic sensor selection

Fault Pinpointing Functionality



Cable route tracing and fault pinpointing, at one time

Fault Pinpointing Functionality, for an exact location of cable sheath damage.

Combine the MRT-700 device with an A-frame to identify and locate cable sheath faults.

Depth and inject current: 093 cm, 064 mA

Injected frequency: 8KFF

Location of the fault: 27.8 DBs

How far the sheath fault is: 45.3