



ML-1000 RFID MARKER LOCATOR

PRODUCT INTRODUCTION

The ML-1000 version locator is a high-performance electronic marker locator that integrates multiple frequencies, multiple ID marker modulation modes, automatic sensitivity adjustment, and read-write marker. It has extremely high sensitivity, but also has good noise suppression ability, which is not only suitable for professional surveyors, but can also be easily mastered by ordinary operators.

The ML-1000 supports three working modes: analog marker (No ID) detection, ASKID marker detection and FSK ID marker detection. In the analog detection mode, the ML-1000 can detect all electronic markers produced according to standard frequencies: Gas 83 kHz, Telecom 101.4 kHz, Sanitary /drainage 121.6 kHz, Water 145.7 kHz, Power 169.8 kHz/134 kHz(EU standard), General 66.35 kHz, and CATV 77 kHz. In ASK or FSK ID marker detection mode, ML-1000 can read the ID from the ID markers and is equipped with optional Android App and cloud storage to manage the identified data, so as to realize the visual management of underground pipelines. ML1000 as in built GPS.



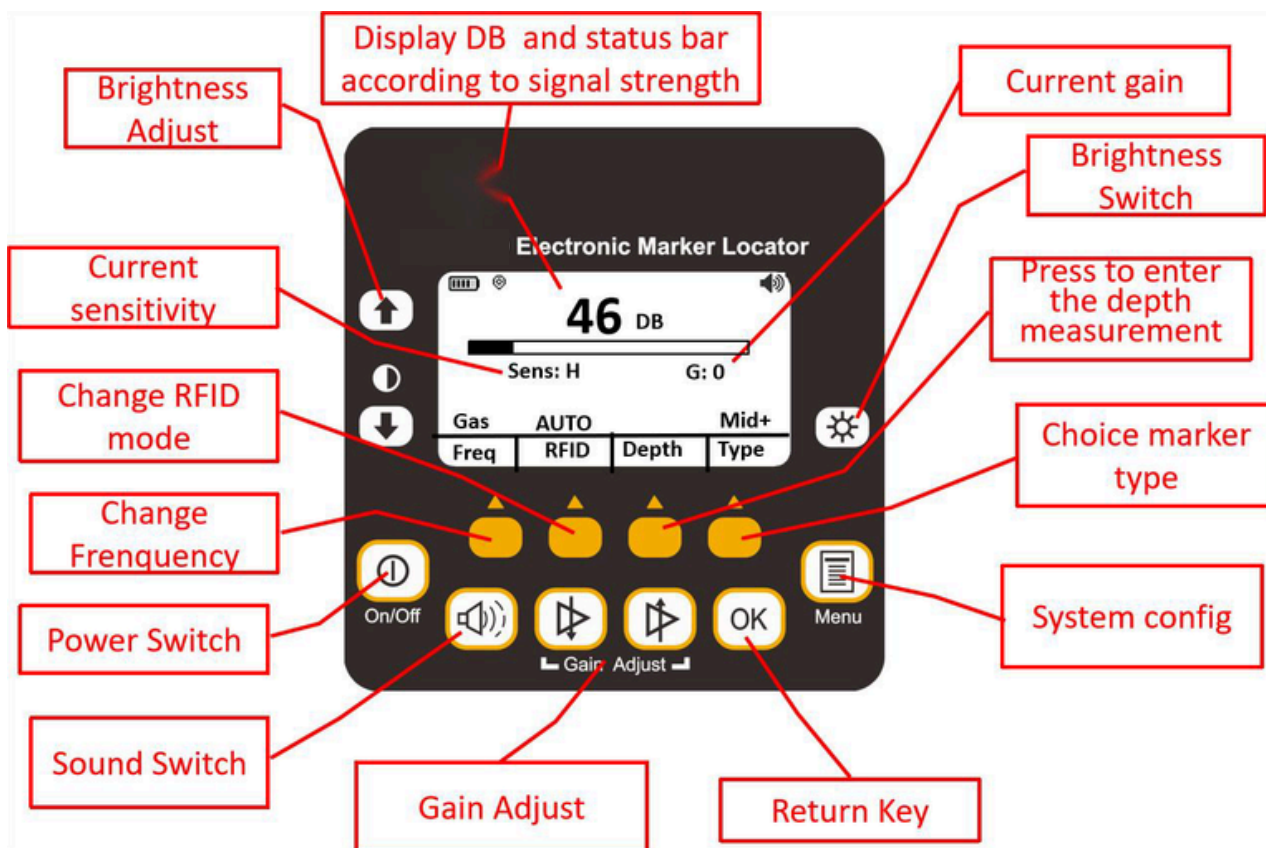
Choose sensitivity based on the estimated burial depth of the marker and environmental noise. Choosing high sensitivity can make the locator perceive the marker at a longer distance, but high sensitivity can also generate more invalid prompt sounds. Operators need some experience to determine whether to find the marker based on the difference in prompt sounds. Generally, the prompt sound generated by noise is intermittent, while the prompt sound generated by the marker is continuous.

SOUND

Alarm/Quiet: start playing the prompt sound when $DB \geq 36$;

Ring/Sharp: start playing the prompt sound when $DB \geq 5$;

PANEL DISPLAY



PERFORMANCE PARAMETER

✔ **Material: ABS**

✔ **Weight:** 2.45Kg ± 5% - Conventional antenna, without base

- 2.85Kg ± 5% - Conventional antenna, with base
- 3.1Kg ± 5% - Extended antenna, with base

✔ Dimensions (length * width * height):750 * 300 * 120 mm

✔ Maximum detection depth (Slightly different in different frequencies):

- Full range marker: >2.8m
- Middle range+ marker: > 2.5m
- Middle range marker : >2.2m
- Ball Marker(FB1500): >1.5m
- Near surface marker: >0.8m

✔ **Maximum ID reading depth (Different in different frequencies):**

- Full range marker: 2.6~3.0m
- Middle range+ marker: 2.2~2.5m
- Ball Marker: 1.5m
- Near surface marker: >0.8m

✔ **Maximum writing depth (Slightly different in different frequencies):**

- Full range marker: 0.5~0.8m
- Middle range+ marker: 0.3~0.5m
- Ball Marker: 0.2~0.4m
- Near surface marker: <0.3m
- Accuracy of marker depth measurement: +/- 15% ±5cm
- Waterproof capacity: IP54
- Battery life: 20 hours *
- Battery volt: lithium battery 14.8V, 3200mah, DC interface
- Battery dimensions (length * width * height):130 * 36 * 20 mm
- Battery Charger: 16.8V, 1A
- GPS: External (V100) or Build-in(V200)
- Capacity of marker records: 9000 Internal capacity and unlimited on cloud storage
- Internal Display type: Backlight LCD screen, 192*96 dots
- 1/4 Phone Clip Interface 3.5 Headphone Jack

✔ **Built-in GPS**

VERSION VARIANCE DESCRIPTION

Version	ML1000
Frequency	83KHz, 101.4KHz , 121.6KHz, 145.7KHz, 169.8KHz, 134KHz, 66.35KHz
Antenna size	Big or Small
Antenna gain	14DBi
Backend Amplification Circuit gain	70DB
RFID mode	ASK and FSK
Writing marker	Supported
LCD Resolution	19296
Prompt sound	Alarm or Ring
Maximum Detection depth (No ID)	Mid+: 2.2~2.5m Ball: >1.5m Nail: >0.8m
Maximum ID Reading Depth (ASK)	Mid+: 1.8~2.1 m Ball: 1.1~1.3m Nail: >0.7m
Maximum ID	Mid+: 2.3~2.6 m
Reading Depth (FSK)	Ball: 1.5~1.6m Nail: >0.8m
Maximum marker write depth (FSK)	Mid+: <0.6 m Ball: <0.5m Nail: <0.3m

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