

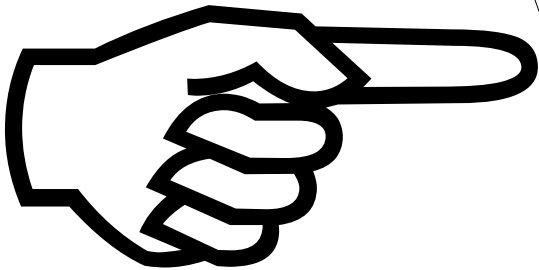


1

Introduction

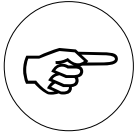
The Explorer is the most technologically advanced detector ever produced.

It is possible to start treasure hunting as soon as you have assembled the detector, but it is worth familiarising yourself with its many features...



ABOUT THIS MANUAL

This manual is designed to introduce the detector's features, give you step-by-step directions for everything from assembling and adjusting your detector, basic detector use and customising your own advanced settings.



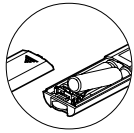
1. INTRODUCTION

Basic overview of the Explorer and this User's Manual.



2. ASSEMBLY

This chapter provides details and instructions on assembling and adjusting the Explorer.



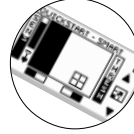
3. BATTERIES

The Explorer is powered by alkaline batteries or a rechargeable battery pack. This chapter provides details on battery installation, use and performance.



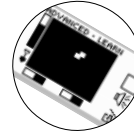
4. CONTROL PANEL

This chapter is designed to familiarise you with the various functions of the Explorer Control Panel. It is important that this section is read prior to basic or advanced detector use.



5. QUICKSTART

However experienced you are at using a metal detector, it is important that you read this chapter to understand how to use the Explorer in Quickstart mode.



6. ADVANCED USE

Once you're comfortable with basic detector use, this chapter will guide you through the Explorer's more advanced features and custom settings.

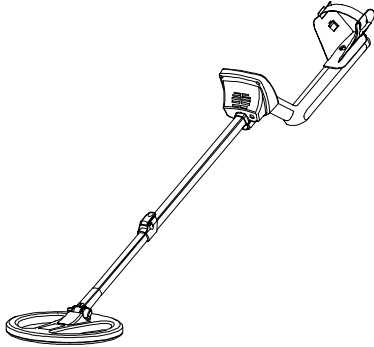


7. USER INFO

This chapter provides a glossary of terminology, user guides, technical specifications, warranty and repair details and trouble-shooting tips.



INTRODUCING THE MINELAB EXPLORER



Thank you for purchasing a Minelab Explorer detector. The Explorer is different to conventional metal detectors and features a number of technological innovations and design features which are introduced and explained in this manual.

The Explorer is designed to locate valuable metal objects in a wide variety of ground conditions including extreme salt conditions and sea water, wet beach sand and highly mineralised ground conditions. The detector's simple-to-use control panel and fully automatic Quickstart mode enable the beginner to start detecting within an hour of opening the box. Advanced mode's options will enable you to customise your detector for years to come.

Before you attempt to use your detector in the field, you should follow the chapters of this manual to assemble, understand and customise the Explorer to suit your personal requirements. Please read all the information thoroughly.

Minelab Electronics wish you every success in your treasure hunting.

Contact Minelab

If you have any questions or comments regarding the Explorer or any other Minelab product, please feel free to contact us via your local Authorised Minelab Dealer, or write to us:

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Visit our site on the World Wide Web: <http://www.minelab.com.au> for the latest information on Minelab products and services.

MINELAB'S UNIQUE TECHNOLOGY

The Explorer is the first of a new generation of detectors from Minelab. Its sleek, sturdy design, innovative control panel and comprehensive targeting options set it apart from any other detector available today.

Two Mode detecting

The Explorer is so feature-packed that the research team at Minelab decided to offer two modes of operation: fully automated detection (Quickstart mode) and personally customised precision detecting (Advanced mode).

All of the detector's vital functions are common to Quickstart and Advanced mode. Because the Explorer is such an innovative machine, even the seasoned treasure hunter will benefit from beginning in Quickstart mode.

Quickstart mode

As soon as you have assembled the Explorer you're ready to start detecting. When it leaves the factory, the detector is programmed to start in Quickstart.

Quickstart settings are optimised to provide you with accurate detection in most conditions you will encounter in the field, so you can concentrate your attention on the objects you discover.

This manual's Chapter 4: Control Panel, outlines all of the control panel features needed to use your detector in Quickstart (or Advanced) including shortcut keys, special functions like Pinpoint and adjusting your detector settings.

Chapter 5: Quickstart, explains basic use in detail and provides tips on everything from sweeping the detector coil to digging up objects.

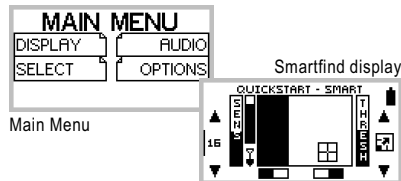


Figure 1.1 Quickstart mode

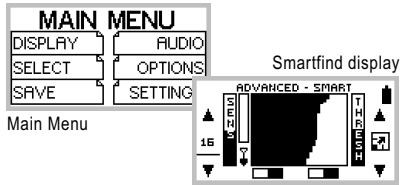


Figure 1.2 Advanced mode

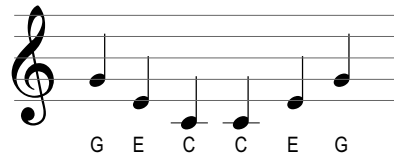
Advanced mode

Once you are familiar with the feel and functions of the detector, it is a simple matter to move into Advanced mode. This will enable you to change the appearance of the display, modify audio responses, specify custom targets and edit and save personal settings. Chapter 6: Advanced Use provides all of the information you need to personalise your Explorer for specialised targeting.

Getting lost?



Factory Reset Power On Tune



If at any time you become a little confused with the settings for your detector, or just want to brush up on basic detector use, it is simple to reset the Explorer to its original factory settings.

Turn the detector off and then **PRESS AND HOLD THE POWER BUTTON** until a six-note musical tune is sounded (rising C-major chord). The Minelab logo and the words 'FACTORY PRESETS' will be briefly displayed on the screen (as shown above).

This will return you to the original Quickstart mode settings. You can resume basic detecting or make selections from the Main Menu.

Discrimination

Discrimination is the ability of a metal detector to identify the user's desired target (e.g. jewelry) and eliminate signals from undesirable material (e.g. nails).

The Explorer can be programmed in a number of ways to discriminate against unwanted targets in different types of ground.

Full Band Spectrum (FBS)

When developing Full Band Spectrum (FBS) technology, Minelab's scientists looked at improving the already successful Broad Band Spectrum (BBS) technology used in previous Minelab detectors.

Discussions with seasoned treasure hunters from around the world identified a number of possible enhancements for operators. The improvements to the Explorer detectors include:

- increased detection depth;
- accurate identification of targets to greater depth;
- adjustments to improve operation for searching salt-water beaches.

Most detectors on the market operate on a single (or dual) frequency, ranging from 1 to 70 kilohertz (kHz). Although this

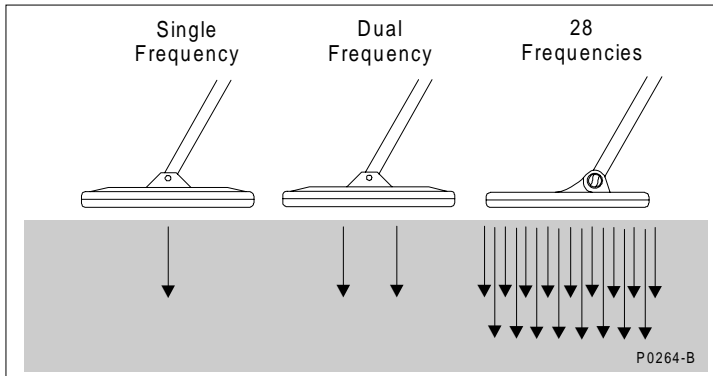


Figure 1.3. Metal detector comparisons

technology has served the industry well for years, Minelab's scientists found that a frequency that worked well in one area would often offer only marginal performance when used in another location. Ground mineralisation, trash content, and target size all had an effect on how effective a detector transmitting a single frequency would operate.

Full Band Spectrum technology combines Minelab's existing multiple frequency BBS technology with a powerful new microprocessor to give:

- greater detecting depth;
- consistent sensitivity over a wide range of targets;
- less interference from electromagnetic sources;
- more accurate identification of target characteristics.

The Full Band Spectrum circuit automatically transmits 28 frequencies simultaneously. This range in frequencies means that



Operating Frequencies

A metal detector's electromagnetic operating frequencies are measured in kilohertz (kHz).

Low signal frequencies (e.g. 1.5 kHz) penetrate deepest, but sensitivity to smaller targets is low.

On the other hand, higher frequencies have a shallower depth of penetration but high sensitivity to small targets.

The Explorer's multiple-frequency operation provides the advantage of both.

the signal received from the detector coil is analysed from a wide range of responses. This information is relayed to the operator via the speaker or headphones and the control panel's liquid crystal display as an audio or visual target response.

Put simply, Minelab's unique FBS technology means deep, sensitive, accurate detecting.

Ground Compensation

The Explorer uses a sophisticated approach to the elimination of ground mineralisation. It uses advanced digital filtering to eliminate the influence of ground signals.

You are now ready to proceed to Chapter 2: Assembly.



