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Product Catalogue



Minelab technology working for you

Eureka Gold SD2100v2 SD2200v2 [GP extreme Explorer] Sovereign Elite Excalibur Musketeer Advantage



Explorer

More depth, greater sensitivity, better discrimination...
 ... find what you've been missing.

page 3

Sovereign Elite

Easy to use switch on and go detector...
 ... let the technology work for you.

page 5

Musketeer Advantage

Minelab's Musketeer Advantage is the best performing detector in its class...
 ...straight out of the box!

page 7

Excalibur

Exceptional power and discrimination...
 ... go detecting in the field, at the beach or diving 200 feet underwater.

page 8

GP extreme

The world's most advanced gold detector...
 ... giving you extreme depth and extreme sensitivity.

page 9

SD2200v2 and SD2100v2

Superior design and performance...
 ... MPS technology gives you the competitive advantage

pages 11 and 12

Eureka Gold

3 Switchable FREQUENCIES targets different size nuggets at different depths...

page 13





[Ireland]



[Australia]



[USA]

World Leader in Metal Sensing

Since its origins in 1985 Minelab has aspired to become the world leader in metal sensing technology. Through devotion to research and development and innovative design Minelab has become a major world manufacturer of hand held metal detectors.

Minelab's commitment to the development of new technologies along with excellence in customer satisfaction will give you a big advantage when you're out detecting no matter what the ground or environmental conditions. With Minelab products you will have the opportunity to find more valuable targets more often.

With manufacturing, distribution and customer service operations in Australia and Europe and dedicated customer service facilities in the United States you are always safe in the knowledge that customer care is close at hand. Minelab's worldwide network of Authorized Dealers are able to give you the most up to date knowledge in products and techniques that will help you to improve your success rate in the field.

Minelab products have set new standards in the world of metal detecting for both performance and innovation. This catalogue displays the complete range of world leading products from Minelab and will assist you in finding a quality, easy to use, high performance detector to suit your needs.

Minelab technology helping you find more targets more often.

General Detecting Information

How a metal detector works

Metal detectors work due to the fact that metal is conductive. Metal detectors create an electro-magnetic field, which penetrates the ground. When the search coil senses a change in this field (caused by a metal object) it sends a signal back to the control box which then alerts the operator. Metal detectors react to the surface area of objects, not their mass, therefore the larger the object, the deeper it can be detected.

Operating frequencies and sensitivity

Measured in kiloHertz (kHz) the frequency is the number of times a signal is transmitted into the ground and received back, per second. The lower the frequency used by a detector, the deeper it can normally penetrate. At low frequencies however, the sensitivity to small targets is sometimes reduced. The higher the frequency, the higher the sensitivity to small targets, but it may not penetrate as deeply. In general, gold detectors operate at higher frequencies (to find small nuggets) while coin and treasure detectors work at lower frequencies for deeper penetration (the exception to this is MPS type metal detectors – read more about MPS on page 2).

Difficult Soil

Soil contains naturally occurring salts and minerals, which is known as mineralization. Areas of highly mineralized soil are generally known as difficult soils. Sand or loam soils are low in minerals and are usually very easy to detect. Most detectors have a control called 'ground balance' which is used to compensate for the effect of mineralization.

The most difficult ground conditions are the areas where mineralization varies. Here, the operator must repeatedly re-tune their detector unless their machine features Automatic Ground Tracking (AGT) technology, which will continuously and automatically adjust the detector for perfect ground balance.

Note: As a world leader in metal detecting technology Minelab strives to continually innovate and improve its product range. In keeping with these aims, Minelab reserve the right to respond to ongoing technical progress by introducing changes to the design, technical features and accessories of each product. Certain images and descriptions in this product catalogue may vary from products purchased.

Automatic Ground Tracking (AGT)

AGT refers to the ability of the detector to track the changes in ground mineralization and automatically adjust the ground balance to suit. This ensures perfect ground balance and full detection depth and eliminates the need for the operator to stop and manually adjust the detector as the ground conditions change.

Very Low Frequency (VLF)

VLF technology is the traditional transmission frequency of detectors; from 3kHz to 50kHz. Minelab makes detectors that operate higher than 50kHz and lower than 3kHz, so you get greater depth, sensitivity and performance in whatever type of detecting you plan to do.

Broad Band Spectrum (BBS)

Most detectors operate on one or sometimes two frequencies only. Minelab's BBS technology automatically transmits 17 separate frequencies over a range from 1.5kHz to 25.5kHz. This means you have more depth, greater sensitivity and more accurate discrimination.

Full Band Spectrum (FBS)

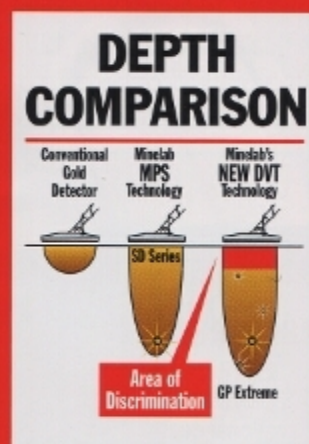
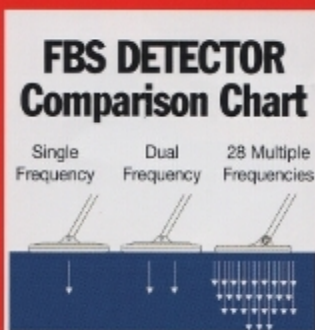
FBS technology is a further development of Minelab's BBS Multi Frequency Technology. This technology is unique to Minelab, providing greater depth and improved target identification in most soil conditions. FBS refers to the use of 28 frequencies operating simultaneously over a range from 1.5kHz to 100kHz. FBS technology means that a wider range of targets can be located at greater depths.

Multi-Period Sensing (MPS)

Minelab's unique MPS technology transmits a stream of alternating short and long pulses of magnetic field into the ground, causing objects to produce a changed magnetic field of their own. This means you can locate metal targets up to four times the depth of conventional detectors, while very small targets can still be found in difficult grounds. MPS technology also aids in the accuracy of ground balance which limits the number of 'ghost' or false signals.

Dual Voltage Technology (DVT)

DVT refers to changes in the voltage used to create the electro-magnetic field transmitted from the coil into the ground. By using two different voltages (DVT) the possibility of magnetic saturation of the ground is lessened. Thus, detectors using DVT have an increased ability to balance out ground mineralization providing increased depth and greater sensitivity compared with other detectors.



Quiet Ground

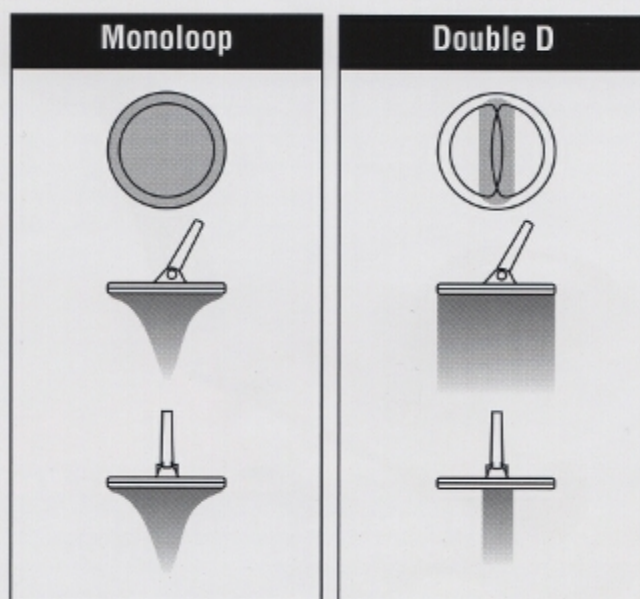
Quiet ground does not contain minerals. It is neutral and generally loamy to sandy in consistency. Ground balancing a metal detector is much easier in these conditions.

Coils

The coil sends an electro-magnetic field into the ground and receives a response that is interpreted by the control box. The size of the coil can affect the depth a target can be detected, or the sensitivity to that target. Coils can also have different search patterns, depending on how they are made. Minelab uses two coil types; double D and Monoloop which give the greatest detection coverage, depth and highest level of overall performance. By changing the size or design of coil, the detector can become more versatile for changing conditions.

Discrimination

Discrimination refers to the ability of the metal detector to estimate the type of metal a target is made of. Discrimination gives you the ability to ignore unwanted objects like iron, steel, pull-tabs etc, while detecting for valuable items made from metals like silver, gold, brass or copper.



Explorer

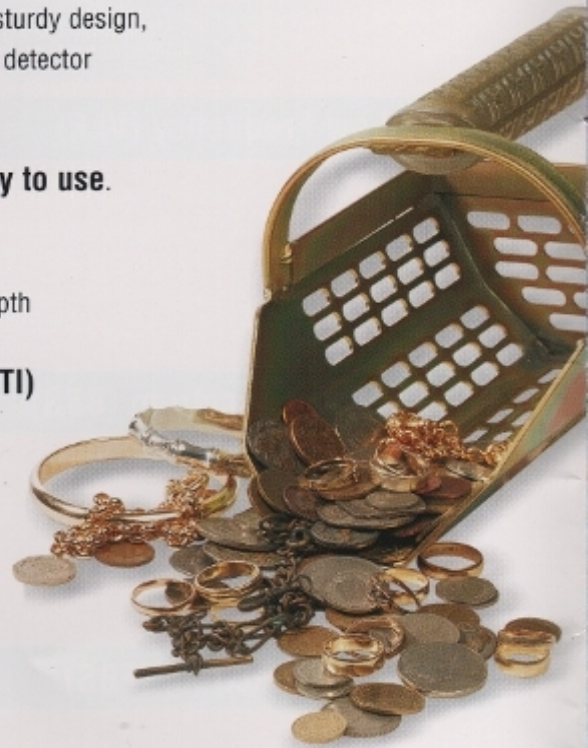
Find what you've been missing

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

Never before has **discrimination and target ID** been so accurate and so easy to use. The Explorer will almost fingerprint the targets you want and eliminate the trash.

Minelab's exclusive Full Band Spectrum (FBS) technology gives greater depth and better target identification. The dynamic fully integrated control panel incorporates breakthrough technology with a full function **Co-ordinate Target Identification (CTI)** digital display featuring Minelab's exclusive **Smartfind™** discrimination system.

Includes - 10.5 inch submersible coil, alkaline and NiMH rechargeable batteries, high quality headphones, 12V car and mains charger (XS only).



Features

- FBS Technology
- Exceptional depth
- Target profiling with Smartfind™
- Large easy to read display
- Tone ID for targets
- Target depth indication
- Simple push button menu control
- Easy to use Quickstart program
- Lightweight, ergonomic comfort
- 2 models to choose from
- Full function advanced program (XS only)

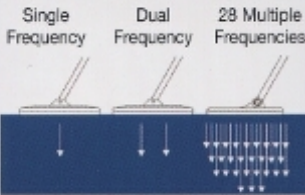


1. Display screen
2. Power button
3. Main Menu button
4. Shortcut buttons
5. Back button
6. Backlight button
7. Shift buttons

Optional Accessories – 8 inch coil, control box cover and detector carry bag



FBS DETECTOR Comparison Chart

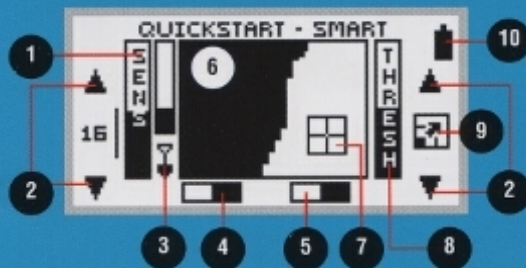


More Depth, Greater Sensitivity,
Better Discrimination.
28 Simultaneous
Operating
Frequencies
gives you
the Power
to Find More.



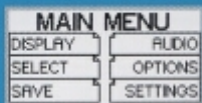
Smartfind™ Screens

Quickstart Display

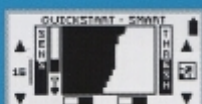


1. Sensitivity Level
2. Adjustment Arrows
3. Depth Indicator
4. Iron Mask
5. Pinpoint Mode
6. Smartfind™ Display
7. Target Cross Square
8. Threshold Level
9. Full Screen
10. Battery Life

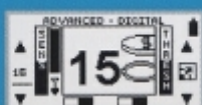
Smartfind™ does what no other detector can, it displays a target's characteristics. It will rate the size/conductivity of your target and also rate its resemblance to ferrous characteristics, displayed by **easy to understand graphic icons**. Never before has target identification been so accurate and easy to use.



Main Menu screen allows user to select from six options.



Select this screen and start detecting. The Explorer will automatically ground balance and detect non-ferrous objects.



Digital display identifies targets with easy to read icons.

Testimonials



Calvin M. - VA, USA

I had been watching this one field for the farmer to plow it again, finally I go by and it had been plowed. It's a field about 30' x 50'. I've found several old coins in this field, it was part of an old land grant that was granted by the King of England in 1639. I found it by researching the road names around it. I made two passes when I got a weak penny signal, so I dug it and it was a clipped 2 Reale Spanish cob. I researched the style of cross on it and it was made in Mexico between 1620 and 1670. I was using the Explorer XS, my settings were Sens.28, Iron mask -9. The set of 5 coins are the ones that I've dug out of that same field.

Thank you .



Dan W. - Las Vegas, Nevada

"I've owned other brands, but when I decided to get serious, I purchased a Minelab... Now I have 2 Explorers! That's all I need!"

Dan pictured with his 2 gold coins from the 1600-1800's found at 10 inches deep with his Explorer XS.

Sovereign Elite

Finding more, more often

**NEW
MODEL**

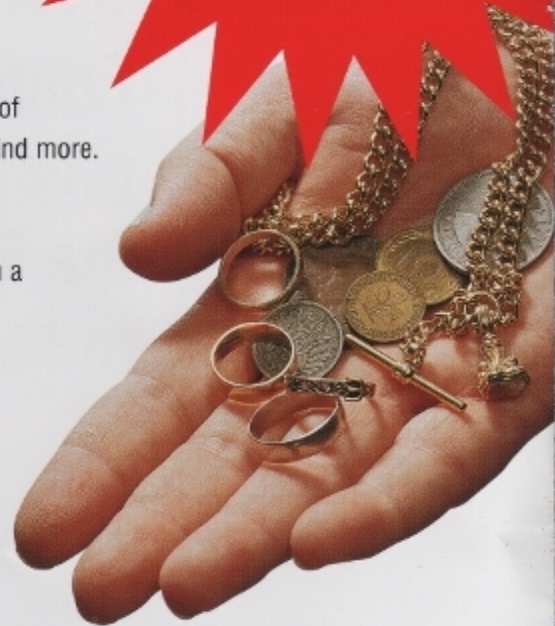
The Sovereign Elite metal detector features Minelab's easy to use **BBS Technology** (17 frequencies operating automatically at the same time).

The Sovereign **will penetrate incredible depths to find targets** beyond the depth of most other detectors. Put simply, Minelab's BBS Technology gives you the opportunity to find more.

The **Tone ID switch** allows you to choose either a fixed tone for your target signal or variable tones for better target identification. It also features notch control, which gives you a second level of discrimination between objects, allowing you an even **higher level of accuracy**.

The Sovereign Elite is available with either 8 or 10 inch waterproof BBS Tornado coils, which are extremely stable, super sensitive and built for the toughest conditions.

Includes - 10 inch submersible coil, digital target identification meter, and alkaline battery pack.



Features

- BBS Technology
- Automatic Ground Tracking
- All Metal Mode
- Discriminate Mode
- Sensitivity adjustment
- Threshold adjustment
- Hip mountable

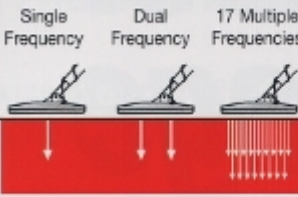


Note: Digital meter available as standard in some countries.

Available Accessories – 8 inch Tornado coil, 10 inch Tornado coil, headphones, digital target meter, car battery charger, hipmount bag, detector carry bag



BBS DETECTOR Comparison Chart



Sovereign Elite
- the easy to
use **Switch On**
and **Go** detector.
Let the
features and
technology
work for you...



Performance

Accessory



The Digital Indication Meter

The Digital Indication Meter enhances the existing features of the detector, significantly improving target identification accuracy prior to target recovery.

- Produces a numerical reading of the detected object
- Enhances target discrimination
- Large display to enable easy reading
- Large numerical separation between targets
- Ferrous objects produce a minus readout for easy identification
- Compatible with all models of Minelab Sovereign
- Easily calibrated to suit individual coil size, soil conditions and target type

Testimonials



The Wylie Fox – Ireland

The simplicity of the controls of the Sovereign Elite allowed me to set the machine and start detecting within minutes. The very first signal that I received was a Hammered Silver 3d of Elizabeth I. During the next two hours I was amazed at the loudness of the signals received, many of the finds were coming from beyond 7" in depth and were just minute buttons. The machine really is in an Elite category all by itself, its ease of use in the field, with the ability to just flick a switch between settings, plus the boon of either Hip or Chest Mounting must surely make this another winner.



Danny M. – Northern Ireland

I recently purchased a new Minelab Sovereign Elite and went off to one of my usual haunts to try it out. Two steps into the field I received a positive signal. I dug down to retrieve the target and turned the sod over and checked through it for my prize, but it was still in the hole. I then dug down a further spades depth and to my surprise a beautiful Silver hammered coin at over 9 inches! The Minelab Sovereign Elite is a lovely, lightweight and well balanced machine. It is super deep and has excellent discrimination and quick target retrieval. This is the best Minelab Sovereign ever and a must for every detectorist.

Musketeer Advantage

**NEW
MODEL**

Minelab's Musketeer Advantage is the best performing detector in its class!

You will be amazed at the awesome depth ...straight out of the box! With Minelab's New Advantage, the biggest problem you'll face is deciding when to call it a day!

Musketeer Advantage comes with increased sensitivity for those who enjoy pushing a detector to its limits! Its new features provide you with hours of fatigue free detecting. Having superior depth, fast target response and greater sensitivity will enable you to find targets well beyond the reach of similarly priced detectors.

Ideally suited for the coin and relic hunter who needs simple, solid performance. The Dedicated Power of these detectors will amaze even the most seasoned detectorist.



Features

- Quick Release Rugged Control Box
- Sturdy 2 piece adjustable shaft
- TS800 Slimline coil - up to 25% lighter than original TS800 coil.
- Precision Adjustable Ground Balance
- Pinpoint/Non-Motion Mode
- Threshold Reset switch
- Padded Armrest for even greater detecting comfort

Testimonials



"That detector is amazing!
It's the best one I've ever
used!" - Paul Sabisch

Andy Sabisch - (reprinted with permission from Lost Treasure, Inc.)

The Musketeer Advantage offers above-average depth and discrimination, is quite simple to operate and extremely accurate in pinpointing detected targets. Minelab picked a fitting name as it will definitely give treasure hunters an advantage in the field.

My son Paul has been competing in hunts since he was 6 years old. In the 45 minute hunt, he recovered 75 silver dimes and a prize token. All of us were immediately impressed at the crisp signal response and the ability to easily pin-point with the Double-D coil.

Optional Accessories - TS1000 slimline coil, NiMH rechargeable battery, car charger, hipmount bag, detector carry bag, headphones



Excalibur

The world's best beach detector

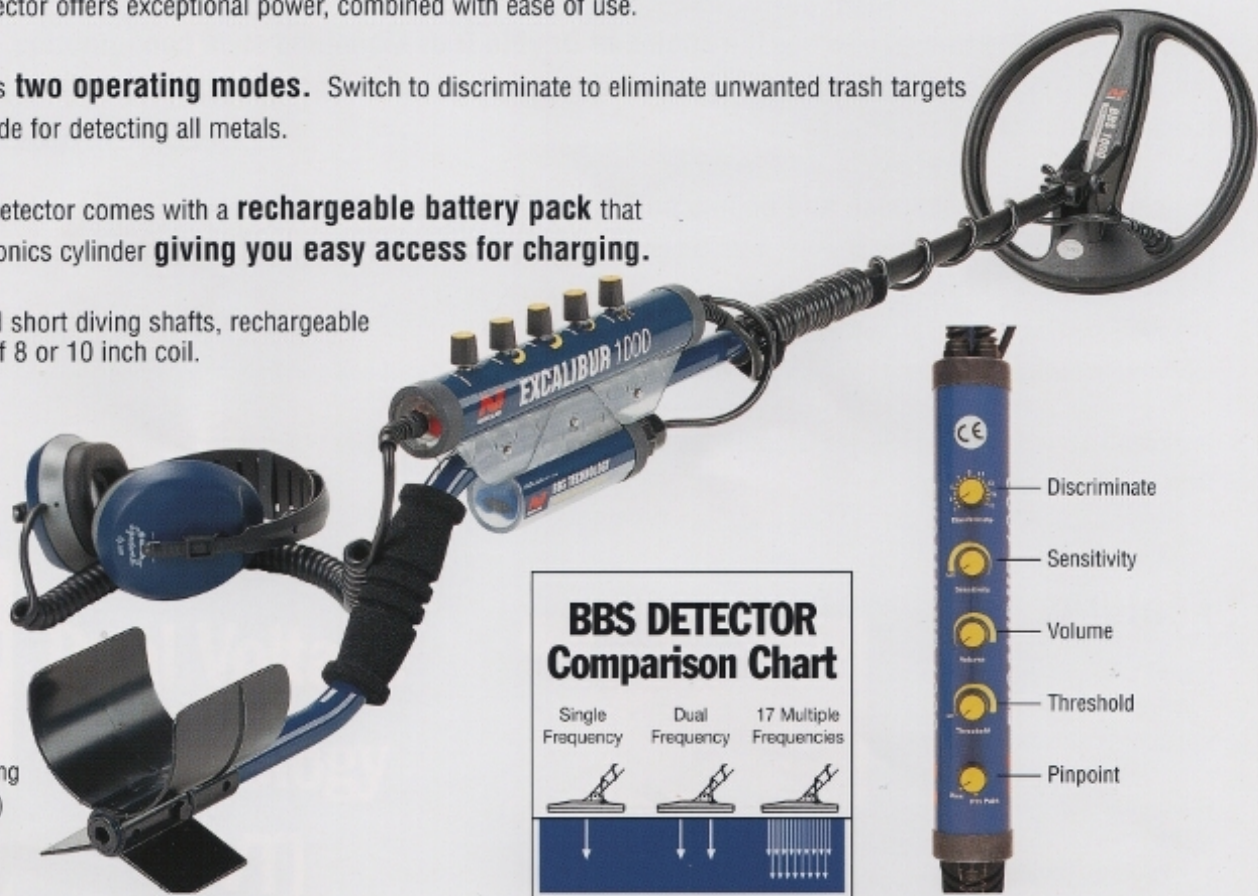
Whether working **the beach, wading at any depth or diving a wreck to 200 feet, the Excalibur will perform every time.** The unique design of the Minelab Excalibur allows you to use this metal detector as effectively in or out of the water.

You can choose from two models; the Excalibur 1000 with 10 inch BBS waterproof coil or the Excalibur 800 with 8 inch BBS waterproof coil. This detector offers exceptional power, combined with ease of use.

The Excalibur also boasts **two operating modes.** Switch to discriminate to eliminate unwanted trash targets or switch to pinpoint mode for detecting all metals.

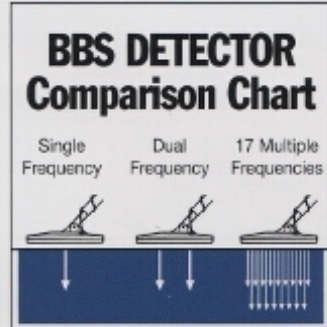
The world's best beach detector comes with a **rechargeable battery pack** that detaches from the electronics cylinder **giving you easy access for charging.**

Includes - full length and short diving shafts, rechargeable NiCad battery, waterproof 8 or 10 inch coil.



Features

- BBS Technology
- Automatic Ground Tracking
- All Metal Mode (Pinpoint)
- Discriminate Mode



Testimonials



Francois C. - France

I have been a Minelab customer since Oct 96, first with the Sovereign then the Excalibur. I have found more than 300 gold rings. I love BBS technology because it saves time and energy; the outstanding discrimination enables me to tell by the sound, if the target is worth digging or not. You can even tell WHICH coin it is, or if it is GOLD.



Raymond B. - SA, Australia

"I found most of these rings with the Excalibur 800. I think it's a fantastic machine, the best in the world."

Optional Accessories – alkaline battery pack and detector carry bag



GP extreme

The world's most advanced gold detector

Minelab's most powerful gold detector, the GP extreme, allows you to go back to the goldfields and find all the gold you missed!

Extensive field and laboratory tests have proven that the GP extreme's **Dual Voltage Technology (DVT)** detects deeper and is more sensitive than previous technology allowed.

Minelab's new coil technology gives you **the choice of Double D or Monoloop style configuration**, with just the flick of a switch. This enables you to change the sensitivity and search pattern of the coil, making it incredibly versatile.

The **sharper audio response and enhanced target signal response** means nuggets are easier to hear so you won't miss out on these good targets.

The GP extreme has an improved ability to detect areas of intense electrical influence, can operate in high salt environments and other difficult soil conditions.

Includes - 11 and 18 inch coils, rechargeable gel cell battery, 12V car and mains charger and high quality headphones.



Features

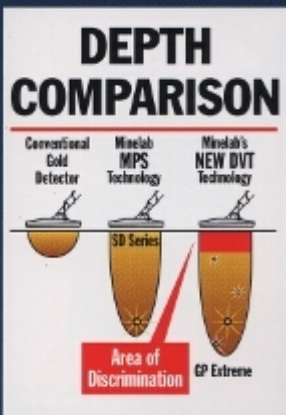
- Dual Voltage Technology
- Automatic tune control
- Automatic Ground Tracking
- All Metal Mode
- Soil condition switch
- Discriminate Mode
- Improved signal response



Optional Accessories - 4.5 A/hr battery & pouch, detector carry bag, heavy duty carry case



The GP extreme combines stable and effective ground balancing with extreme depth and extreme sensitivity.



Dual Voltage Technology (DVT)

DVT refers to the changes in voltage used to create the electro-magnetic field transmitted into the ground by the detector's coil.

When using a detector strong magnetic fields are transmitted which can "magnetically saturate" the ground adversely affecting the performance of the detector.

Minelab have found that by applying two different voltages to the transmit coil it cancels signals caused by magnetic saturation.

The cancelling of signals significantly improves the detector's ability to balance out mineralization, enabling it to produce increases in depth and sensitivity as shown in the diagram above.

Testimonials



Rob A. – Arizona, USA

The GP extreme is the 'King of Performance'. It's the only machine I use... especially after unearthing a 9.1 ounce gold nugget at 28" deep in an area where conventional detectors have searched many times before.



Fay C. – Qld, Australia

We could not believe the amount of gold we were finding with our GP extreme. Sensitive, quiet and so well balanced. We found nearly 12 oz of gold in three months!

SD2200v2

One of the world's most sophisticated and powerful gold detectors



The Brilliant High Performance SD2200v2 combines the unique MPS technology with 5 outstanding features.

Discrimination

The discrimination function rejects strong signals from ferrous junk, thus allowing more time detecting and less time digging unwanted targets.

Automatic Ground Balance

Easy to use technology enables you to maintain optimum ground balance maximizing detection depth at all times.

Automatic Tuning Control

Simply push a button to minimize the effects of a range of electromagnetic interference, including power lines and even other metal detectors.

Boost Amplifier

Turns faint, hard to hear sounds, into louder more defined signals.

Tone control

This is an adjustable control enabling you to easily set the signal tone to suit your hearing.



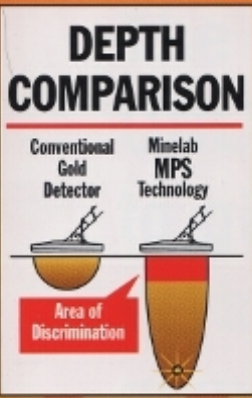
Features

- MPS Technology
- Automatic Ground Tracking
- All Metal Mode
- Discriminate Mode
- Audio boost
- Automatic tune control



Optional Accessories – 18 inch Monoloop coil, 11 inch Monoloop coil, 8 inch Monoloop coil, 4.5 A/hr battery & pouch, detector carry bag





Superior Design... Superior Performance
Minelab's MPS Technology gives you the Competitive Advantage



NEW MODEL



SD2100v2

When using a conventional metal detector, the ground mineralization interferes with the signal, which substantially limits the depth at which a nugget can be detected.

The SD 2100v2, however uses Minelab's exclusive technology known as MPS or Multi Period Sensing. This enables the SD 2100v2 to minimize the effects of mineralization, to penetrate deeper, and to provide you with an interference free signal.

This effectively has overcome the problem of ground noise, and it essentially only produces a signal on actual metal targets such as a gold nugget.

Ideal for the beginner, couple or experienced prospector. Supplied with the versatile 11 inch Double-D coil (other coils available as accessories) the ergonomically balanced "S-bend" shaft and the 12A/hr battery and pouch, makes the Minelab SD 2100v2 a comfortable lightweight machine.

Includes - 11 inch coil, 12A/hr battery, 12V car and mains charger.

Testimonials



Robert A. - SA, Australia

(found using his Minelab SD 2100)... Not far from the car I got my first signal and unearthed a 3 gram nugget. About 45 minutes later I got a faint signal under my 18 inch coil. It felt like hours to dig two feet down, then my mate Jim dug another 4-6 inches and there it was - a small bit was sticking out of the clay. A rush of excitement had me digging again and we unearthed, the biggest piece of gold I had ever found - a glorious 96 ounces! Thanks to Minelab and their Super Detectors, Jim and I found our dream!



Eric D. - WA, Australia

After about 3 hours and nothing but junk, I decided I'd had enough and headed back towards the car, waving my Minelab detector around half heartedly when it went off. I was only 20m from my vehicle, and I had walked about 5 kilometres.

I dug up this little beauty - approximately 370 grams!

The World's
ONLY detector
 to give YOU the
 versatility and
 power of
3 SWITCHABLE
FREQUENCIES



**Triple Frequency
 VLF Technology**



**Very Low
 Frequency
 (VLF)**

VLF technology is the traditional transmission frequency of detectors; from 3kHz to 50kHz. The Minelab Eureka Gold has been designed using this technology BUT gives you the versatility to switch from 60kHz, 20kHz or a deep 6.4kHz. You get greater depth, sensitivity and performance in whatever type of detecting you plan to do.

Testimonials



Nenad L. - Minelab Test Team

Performance of the Eureka Gold is great. New "Accu-Trak" digital ground balance combined with the versatility of fast or slow speeds, allows optimum performance in all soil types. The new ferrous discriminator "blanks out" ferrous targets and the variable Disc. Control gives the operator full control of the level of discrimination.

The Eureka Gold is an ideal detector for both young and old. The new style control box, padded armrest and strap provide excellent comfort and support. If you've been thinking about getting into gold detecting, the Eureka Gold is the detector you've been looking for.



Rick R. - Montana, USA

The Eureka Gold is the best and easiest to use VLF detector on the market. The Accu-Trak ground balancing handles even the worst ground conditions enabling me to find nuggets as small as 1/10th of a grain with ease!

Minelab Detector Range and Comparison Chart



Feature	Musketeer Advantage	Sovereign Elite	Excalibur	Explorer XS	Eureka Gold	SD2100v2	SD2200v2	GP extreme
Technology	VLF	BBS	BBS	FBS	VLF	MPS	MPS	DVT
Frequency (kHz)	5	1.5 - 25	1.5 - 25	1.5 - 100	6.4/20/60	Multiple	Multiple	Multiple
Microprocessor Controlled		•	•	•	•	•	•	•
Manual Ground Balance	•					•		
Automatic Ground Tracking		•	•	•	•		•	•
All Metal Mode	•	•	•	•	•	•	•	•
Pinpoint Mode	•	•	•	•				
Discrimination	•	•	•	•	•		•	•
Notch Discrimination		•		•				
Sensitivity Adjustment	•	•	•	•	•			•
Volume Adjustment		•	•	•	•			•
Threshold Adjustment		•	•	•	•	•	•	•
Soil Switch				•				•
Audio Boost				•	•		•	•
Target Tone ID		•	•	•				
Digital Meter supplied		Some Countries		•				
Noise Cancel		•		•		•	•	•

Customer Service Centres

Australia	1800 637 786	New Zealand	09 576 8000
Austria	01 982 2276	Norway	69 88 06 79
Brazil	021 564 6389	Poland	(022) 827 66 12
Bulgaria	054 37002	Portugal	289 81 74 29
Canada	1 888 801 6222	Russia	(3952) 33 08 49
Canada	780 459 37 00	South Africa	(011) 887 42 13
Finland	(06) 22 43 590	Spain	91 388 67 82
France	(01) 43 07 55 02	Suriname	430 073
Germany	(08131) 86 599	Sweden	383 46 0110
Greece	(01) 98 44 563	The Netherlands	(053) 430 0512
Iran	(021) 88 00 110	Turkey	(0212) 288 58 66
Ireland	023 52 102	United Kingdom	0121 359 2379
Italy	(0544) 965 378	United Kingdom	01959 571 255
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