

DFS Gold Detector

User Manual



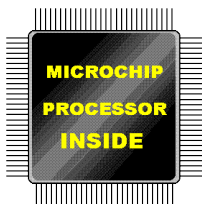
-Digital frequency synthesis: scans for gold, silver, copper, bronze, iron, lead, aluminium and diamonds.

With computer controlled signal stability.

-Capture compare hardware: to analyse whatever ground conditions and automatically adjust the transmitted signal.

-Automatic Power On to the ground (A.P.O): only in conductive ground that absorbs the signal.

These are some of the features for the DFS the " thinking " locator with microchip inside



DFS features a worldwide cutting edge technology invention: DFS "Digital Frequency Synthesis"

The only long range locator on the market with signal output from a microprocessor, which is capable of frequency accuracy corrections every 0,16 microsecond automatically.

Every metal has its own specific molecular frequency, up to present long

range locators where unable to maintain signal stability enough to make visible only the desired target, faults where common practise from minerals and "ghost" targets due to solar and magnetic storms.

The "Microchip inside" our DFS does it all:

it makes thousands automatic corrections to the output frequency when it operates, in fact every 0,16 microseconds the frequency is corrected to match the metal programmed, which produces a signal accurate to 0,001Khz when we tested the DFS.



An on screen counter alerts the operator when the DFS signal has put enough energy to the ground to start scanning the target.



When the counter stops the electromagnetic field is strong enough and the message "START SCANNING" alerts the operator to pinpoint the target, all other metallic objects in the area are eliminated by the DFS and the desired element absorbed enough energy to make it visible.

The DFS needs not any probes, cables, filters, external battery:

It is a compact design easy to maintain. It detects to all directions. The signal transmits in a 360 degrees width, the user is not limited in one direction.

There is no "POWER ON" button: DFS Auto Power On – "A.P.O" circuitry makes a check to the ground conditions, only in good conductive ground, that absorbs the signal, DFS will turn on automatically.

By unplugging it from the ground DFS will turn off.



After switching on the message "GROUND BALANCE" appears on screen, during that time the integrated

microprocessor will analyse the ground conditions

and adjust the frequency waveform to that specific ground type. The most advanced world acclaimed DFS

"MICROCHIP ®" processor

has the ground balance procedure completed by the " Capture Compare Hardware ", system which is included in the DFS technology.

This system has not an equivalent to any frequency generator, because it will adjust up to 5000 different ground balancing settings,

"whatever the ground DFS can handle it, no matter the minerals"

Using the “MODE” push button scans gold, silver, copper, bronze, lead, iron, aluminium, diamonds.

Separate “STEP” push button to fine tune the frequency in steps of 100 hz, using “STEP” information about metal purity can obtained, the user can evaluate gold karats.

By any change to settings the DFS informs the operator with an audio signal.



Also the power source on the DFS is very well thought out: A battery condition alert informs that the battery

is low.

Around 30 minutes after the unit will shut down. The charger can fill up the battery in less than 2 hours, while an LED monitors the charging process. As soon as the LED goes off the battery is full.

SPECIFICATIONS

- *Microchip 40 MHZ processor**
- *Ground probe and main unit in one piece – compact design**
- *Unit rotates 360 degrees for easy viewing of screen**
- *Push button controls & sound indication**
- *Graphical L.C.D with 2 backlight levels: normal / standard for battery economy**
- *“DFS” - digital frequency synthesis with frequency stability 0,16us**
- *“CCP” - capture compare hardware ground balance for adjusting to the ground type**
- *“APO” - Automatic turn on / turn off with ground contact**

- *“STANDBY MODE” - Position verification mechanism when not grounded**
- *On screen counter for signal inductance, alerts when the energy field is strong enough**
- *Distance up to 1400 m**
- *Programmes for gold, silver, copper, bronze, lead, iron, aluminium, and diamonds. Others upon request**
- *Receiver with power amplifier & “L” rods**
- *Rechargeable battery with battery recharge warning message on screen**
- *Charging indicator LED**
- *Receiver antennas do not suffer from oxidation due to human skin PH**

