**NEW PROFILE: OSCILLOSCOPE XY DISPLAY**

**OPTION > CONFIGURATION > PROFILE**

**OSCILLOSCOPE DISPLAY XY:** The target signature is displayed on an oscilloscope. The XY screen provides a visual assistance and may improve the identification of difficult targets. For example: The identification of targets that do not have a precise signature (some ferrous, cans ...). The XY profile can be selected as the default display. The display magnification of the XY trace has 10 levels of adjustment using the Zoom function.

- Alternating display between target reading and battery level.
- Display area for ferrous targets.
- Display area for non-ferrous targets.
- Ground phase reading.
- Display area for non-ferrous targets.
- Display area for ferrous targets.

**XY screen target examples:**

- Typical non ferrous Signature for coins.
- Typical non ferrous signature for foil.
- Typical signature for rejected ferrous.
- Typical signature for cans and difficult to reject large ferrous items.
- Typical signature from ferrite and ceramics.

**New Optional High Frequency coils:**

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Battery</th>
</tr>
</thead>
<tbody>
<tr>
<td>13 kHz - 14 kHz</td>
<td>20 hours</td>
</tr>
<tr>
<td>26 kHz - 30 kHz</td>
<td>27 hours</td>
</tr>
<tr>
<td>50 kHz - 55 kHz</td>
<td>28 hours</td>
</tr>
</tbody>
</table>

**Ground Effects:** Improved Tracking.
- Improved display and signal processing compatible with the new HF 21 frequencies. The display now has the ability to handle detection frequencies up to 81 kHz (18 kHz before), now with 7 frequency offsets (compared to 3 previously).
- DEUS is now compatible with a smartphone: Target information and other data can be sent by radio link to a smartphone. An app will soon be available to unlock these features.
- New program No9 "HOT": "Pro setting" this is a find everything program, based on the Full Tone audio mode with a very low discrimination. Hot is a very interactive program offering excellent feedback and target information.
- New program No6 "DEEP": "Pro setting" for locating deep targets, with moderate discrimination and specific signal processing.
- Improved Non motion / static mode: Non motion modes are now more advanced offering better overall performance, with an improved sensitivity to small targets.
- New processing: Dual processing power improves navigation and a range of other parameters. Remote and headset battery life has slightly decreased to 18 and 20 hours respectively.
- Normalization display is now a menu feature on the WS4 and WS5 headphones.
- The headset volume is now stored when switched off.
- The coil name in the coil menu have gone, the serial number is now used as the coil reference.
- Erasing a coil from the list is done by replacing all characters with 0.
- Audio tone can now be raised up to 993 hertz.
- Target normalization mode is on by default (normalization is not active with HF coils).
- When turning OFF the remote control to use only the wireless headphone, the coil restarts.

**Interchangeable battery mounted in the lower stem**

The v4 manual is available soon from our web site: www.xpmetaldetectors.com
When connected the MI-6 pinpointer transmits its audio signal directly to the DEUS, a new menu will now be available with extended functions.

### Pairing the remote control with Pinpointer

1. **Choose** `OPTION` and select `PINPOINTERS`
2. **Press** `↑` and select `PAIRING`
3. **Select** `PAIRING`
4. **Turn on the MI-6**, then hold the button down for 8 seconds
5. **Once paired the MI-6 will operate with the DEUS.**

When pairing, the MI-6 automatically switches to program 7 (DEUS). This program will only work with the DEUS. Program 7 will not generate any sound or vibration.

### Remove the MI-6 from the menu

Choose `REMOVE` and press `YES`.

**Note:** To use the MI-6 without the DEUS, select programs 1 to 6 on the MI-6 menu. To change program: Switch MI-6 on - press the button for 5 seconds, a melody indicates that you have entered the program selection mode, press to correspond with the desired program number (eg press 2 times for program 2). After 2 seconds the melody indicates the MI-6 has returned to the search mode.

### Recover a lost MI-6

Find your pinpointer within a radius of 25 meters, even if switched off and missing after several weeks.

1. **Press** `RESEARCH`
2. **The pinpointer will start sounding with a flashing LED.**
3. **Press the pinpointer button and return to the search mode with** `←`.

### Pairing the headphones at the MI-6

1. **Press** `↑` until you reach `COIL`.
2. **Press** `↑` to reach `PP`, then press `↓` 3 seconds; `PP` flashing.
3. **Turn on the MI-6**, then hold the button down for 8 seconds; `PP` is paired.
4. **Press** `→`.

### Remove the MI-6 at the headphones

1. **Press** `↑` until you reach `COIL`.
2. **Press** `↑` to reach `PP`, then press `↓` 3 seconds; `PP` flashing.
3. **Press** `→`.

### MI-6 active display screen

- **MI-6 Battery condition**
- **Access to:** SENS - TONES - AUDIO...
- **Program**
- **Target zoom screen.**

### Sensitivity

The MI-6 pinpointer has 50 levels of sensitivity via the remote control.

- **Press** `↑` or `↓` The MI-6 has 50 levels of sensitivity via the remote control.

**Note:** For precise object location, low sensitivity levels, such as prog 1 and 2, are recommended. The high sensitivity level (prog 3) is for cache location or searching in walls and furniture.

### Setune

At any time, you can re-calibrate the MI-6 by pressing the button very briefly while away from any metallic source. On mineralized soil, salt water, re-calibrate it in contact with the ground. To localize detection range, re-calibrate (de-tune) near to the object.

### Tones

The MI-6 audio PULSE tone can be adjusted from the remote control, tones range from 120 to 1582 Hz. (Audio PULSE mode only)

- **Press** `↑` or `↓` to adjust the tone.

### Audio PITCH / Audio PULSE

- **Audio PITCH:** The sound varies in tone and intensity, it is the default mode, it offers fast target location.
- **Audio PULSE:** Has a higher sound, intended for noisy environments. Target location is not as precise as PITCH mode. Pitch and Pulse mode both have the same performance.

Press `↑` or `↓` to switch from one mode to another.

### Making and saving a custom program

Choose from one of the 3 factory pre-set programs in the menu to make your own custom program which can then be saved as (prog4).

1. **Select the program you want by pressing** `↑` or `↓`
2. **Enter the settings by pressing** `MENU`
3. **Save your settings by pressing** `SAVE`

**Note:** When first used the MI-6 will start on program 2. After this it will start on the last used program.

**Note:** The 4 programs on the remote control are separate from the programs inside the pinpointer. When used independently the MI-6 (unpaired) will always use it’s factory programs.
For example the ground value will revert to default: The soil is not mineralized enough or if the
level of mineralization is lower than your set "GROUND SENS" or simply if you stop detecting.

The Radio connection between MI-6 and DEUS is now more reliable and faster.

**Note:** HF coils do not require software updates for the moment, they are ignored during the update.

**Note:** Do not be tempted to adjust the "GROUND SENS" too high as this may introduce more instability.

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**GROUND SENS**

- **GROUND SENS HIGH (6 to 10):** The DEUS will track even low mineralized soils.
  - Defauilt to the recommended level.
  - The DEUS does not track and will not display ground values, the Deus will not display a ground effect.

- **GROUND SENS LOW (1 to 5):** Slightly mineralized soils are ignored and the Deus tracks.
  - This makes it possible to avoid tracking on soils with a low mineralization.
  - It makes it possible to adjust the machine ability to react to soils according to their mineralisation.

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**New menu addition:** Ground Sensitivity in GB > EXPERT. This new setting makes

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**GIROFFE EFFECT**

The DEUS will track even low mineralized soils.

**NEW EXPERT MODE: GROUND SENSITIVITY**

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