

DBIC Handheld Metal Detector – User Guide

Purpose

The DBIC safety screening policy requires **all research personnel and participants** to be screened for metal using the Ceia handheld metal detector **before entering the MRI room**. This ensures compliance with MRI safety standards.

Important Notes

- If the wand malfunctions or cannot be operated, **you may not proceed with the scan**.
 - For questions about proper use, contact **Mike Pearl**.
 - **Do not adjust the settings on the wand.**
 - **Location:** The Ceia handheld wand is on the counter in the DBIC waiting area. After use, return it to its charging station.
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Key Features

- Detects **all metals** with high sensitivity, including:
 - Dental implants
 - Small items (e.g., bobby pins)
 - Cell phones
 - Buttons, jewelry, etc.
 - Alerts when metal is detected:
 - **Sound:** Loud beep
 - **Vibration:** Strong feedback
 - **Light:** Orange/red indicator proportional to object size or distance
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Operating Instructions

1. Prepare for Screening

- Ensure the wand is charged and functional.
- Turn the wand on
- Ensure that you are not near the walls (there is metal in our walls)
- Ensure that the scanner room door is closed before using the metal detector

2. Screening Process

- Hold the wand **no more than 6 inches** from the person's surface.
- Sweep **slowly and evenly** over the entire body.

3. If Metal is Detected

- Optical indicator shows orange/red light.
- Sound and vibration will activate.
- **Actions**
 - i. Identify the source. Some dental fillings, implants, and retainers can be detected, as well as surgical implants (e.g., screws, staples, clips)
 - ii. Re-review the safety screening form and confirm prohibited items with the participant.

After Use

- Turn the wand off
- Return the wand to its charging station immediately after screening.