FMD¹
SMART MRI
FERROUS METAL DETECTOR

The ONLY FMD With Trusense Threat Qualification
Significantly reduces alarm fatigue hazards!

IRADIMED
Don’t Become A Statistic
MRI Accidents Continue To Happen Everyday

Don’t Risk Being Non-Compliant
FACILITIES ARE REQUIRED TO:

- **Joint Commission**: Document all ferrous items entering zone IV [1]
- **Joint Commission**: Report of adverse events causing harm or damage [1]
- **Facility Guideline Institute**: Site FMDs for MRI construction projects [3, 4]
- **American Society Of Healthcare Engineering**: Site FMDs for MRI projects [3, 4]
- **Medicines And Healthcare Products Regulatory Agency**: Have an FMD on site [9]
- **Veterans Health Administration**: Recommends audible alarm FMDs [6]
- **American College of Radiology**: Recommends FMDs for zones III & IV [5]

COMPLIANCE AND LIABILITY RISKS MAY LEAD TO:

- Required Corrective Action By Joint Commission
- Serious Damage To Your Imaging Technology
- Costly Disruption To Your Patient Throughput
- Breached Standard-of-Care
- Life Threatening Injuries To Patients And Staff

The value of a true MRI Ferrous Metal Detector that reduces false alarms may not be readily apparent to you until a catastrophic event occurs. This preventable event can be a devastating, life changing situation for patients, staff and to your facility.
**Dynamic Signal Processing (D.S.P)**

- The TruSense neural-engine can determine the difference between ferromagnetic background noise caused by ferrous objects that are not a legitimate threat to the MRI such as an HVAC, Elevator, or other non-threatening ferrous objects.

**Status of the Door’s Position**

- The TruSense "eyes" can recognize whether the position of the door to Zone III/IV is open or closed at all times and adjusts the threat level.

**Threat Directional Change Detection**

- The TruSense sensors can detect when a threat changes direction parallel, away or towards Zone IV and alert accordingly.

**Iradimed’s Patent Pending TruSense Technology**

- Predicts an approaching ferrous hazard by uniquely combining Time of Flight sensing of a threat’s speed, trajectory and Zone IV door status, with Iradimed’s expertise in Dynamic Signal Processing. This clever technology reduces false alarms, all while simultaneously circumventing background magnetic field noise, resulting in the True Sense of a True Hazard.

**FMD1 Trusense Ahead Of Its “Time”**

**Trusense Time of Flight Sensor**

**Position of the Threat**

- Ferrous Location Awareness helps identify where a ferrous threat is located on a person or device by flashing the corresponding LEDs allowing staff to quickly identify an item before it becomes a hazard.

**Speed of the Threat**

- The FMD1 utilizes radar like sensing to determine the speed and direction of a ferrous item so staff is only alerted of true potential threats heading towards Zone IV.

**Minimizes False Alarms**

- The FMD1 has the ability to correctly identify a real hazard from a false alarm improving the staff’s reliance on the system.

**Amorphous Sensing**

- The Zone III magnetic signature changes as staff and equipment move around and Zone IV doors open, making it difficult for other FMDs to identify a threat. The Iradimed FMD1 continuously adapts to its ever changing environment by employing advanced, highly sensitive sensors allowing true magnetic threats to be detected.

**Iradimed’s patent pending Trusense technology** predicts an approaching ferrous hazard by uniquely combining Time of Flight sensing of a threat’s speed, trajectory and Zone IV door status, with Iradimed’s expertise in Dynamic Signal Processing. This clever technology reduces false alarms, all while simultaneously circumventing background magnetic field noise, resulting in the True Sense of a True Hazard.
**Remote Alarm Logging Unit**
RALU Wireless Touch Screen Incident Logging and Reporting

**Wireless Touch Screen Display**
- Logging and reporting alarms and incidents has been streamlined with iRadimed's RALU touch screen interface.

**Audible and Visual Alarms**
- When the FMD\(^1\) recognizes a threat, the RALU will sound an audible alarm and flash on screen a visual alert.

**Status of the Door's Position**
- The status of the Zone IV door is displayed and will trigger an MRI safety alert when a door is left open for a period of time.

**Export Reports for Accreditation Agency**
- Staff can utilize the RALU to generate weekly, monthly, and annual reports to fulfill mandated Joint Commission audits.

**Simplified Incident Logging**
- The RALU touch screen interface allows for staff to quickly and easily log all ferrous items as they enter Zone IV which improves reporting accuracy.

- Authorized: Non-threatening ferrous items such as staff undergarments.
- False Alarm: Ferrous threat has been detected, but no threat present.
- Event With Injury: Ferrous item caused injury to patient or staff member.
- Event With Damage: Ferrous item caused damage to equipment or magnet.

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**A True Plug And Play FMD**

**No Drilling Or Special Tools Required**
- For most facilities, the iRadimed FMD\(^1\) will not require any drilling or special tools to install.

**No Contractors Or Electricians Required**
- Simplified installation requires no third party contractors which saves you time and money. Your facility's Biomedical technicians can easily complete the task.

**Plug and Play, Literally**
- The FMD\(^1\) is powered by a standard AC outlet. Simply plug the system in and wirelessly connect to the RALU remote to start.

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**Configurations That Have You Covered**

**Trusense Zone IV Entryway Protection**
Detects Zone IV projectile hazards protecting patients, staff, and equipment.
- Trusense technology addresses false alarms like no other.
- Fully adjustable sensitivity levels to conform to your MRI safety strategy.
- Features wireless RALU incident logging for Joint Commission compliance.

**Trusense Zone II or III Patient Screening**
No buttons required to detect small hazards protecting patients & MRI image quality.
- Trusense technology automatically recognizes a patient and activates FMD.
- Detects small ferrous objects on the patient that can cause image artifact.
- Identifies potential burn risks from ferrous objects before the scan starts.
All FMDs do a good job at detecting ferrous materials whether potentially threatening or not. However, the IRadimed FMD with RALU is the ONLY ONE with TruSense threat detection technology which reduces false alarms that contribute to alarm and reporting fatigue common with other FMD brands.

References:

GET SCREENED, GET SIMPLE, GET SMART!