

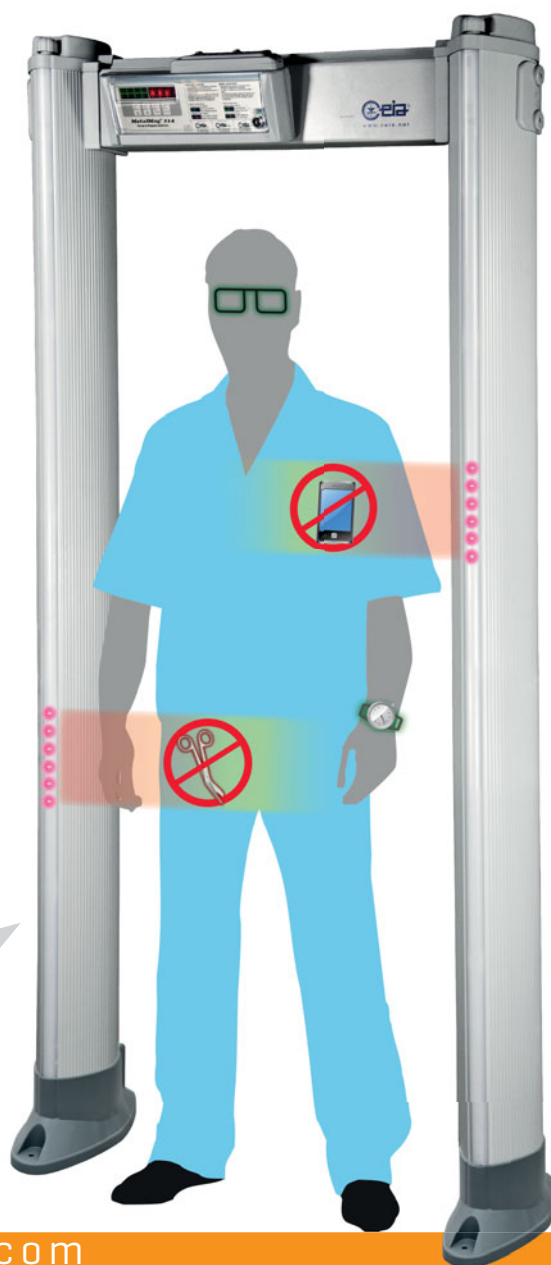


MetalMag™ for MRI Safety Screening

Metal & Ferromagnetic Detector

- Automatic Detection of Metallic Items and Ferromagnetic Materials Located on the Person or Inside the Body that are Considered Dangerous in MRI Scans
- Revolutionary Technology that Filters and Suppresses Alarms for Safe Items such as Underwire Bras, Eyeglasses and Shoes Ends Alarm Fatigue and Guesswork
- Precision Multi-Zone Targeting Indication Identifies the Exact Location of the Dangerous Item on the Body
- Flexible Acoustic Alarm Signaling System includes 10 Continuous and Pulsed Tones with 34 Unique Alert Sounds
- Quick and Easy to Use with Limited Staff Training Required
- Optional Remote Control Unit for Remote Access to the MetalMag Detector, including Alarm Signaling and Programming

Free-Standing Design Does Not Require Structural Modifications for Installation or Deployment



GSA Contract Holder

www.ceia-usa.com

MRI Safety through Electromagnetics

CEIA USA reserves the right to make changes, at any moment and without notice, to the models (including programming), their accessories and options, to the prices and conditions of sale



STEP INTO THE NEXT GENERATION OF SAFETY

The CEIA **MetalMag** is designed to provide a better approach to **MRI safety screening**. In today's MRI environment, there is little time for distractions. Safety screening is important for patients and staff and should be simple, fast and highly effective every time.

No guesswork. True, intelligent alarms. That is the CEIA standard!

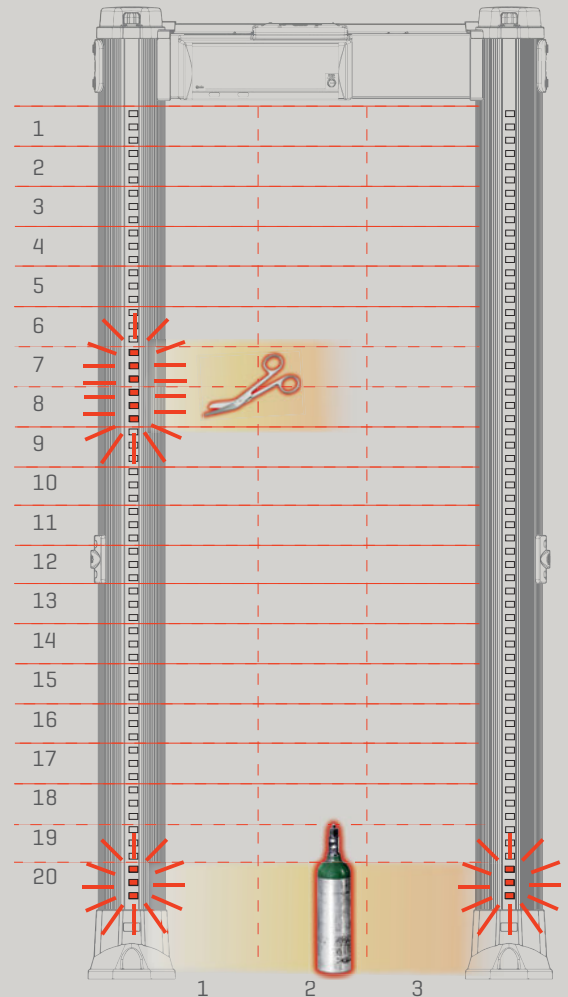
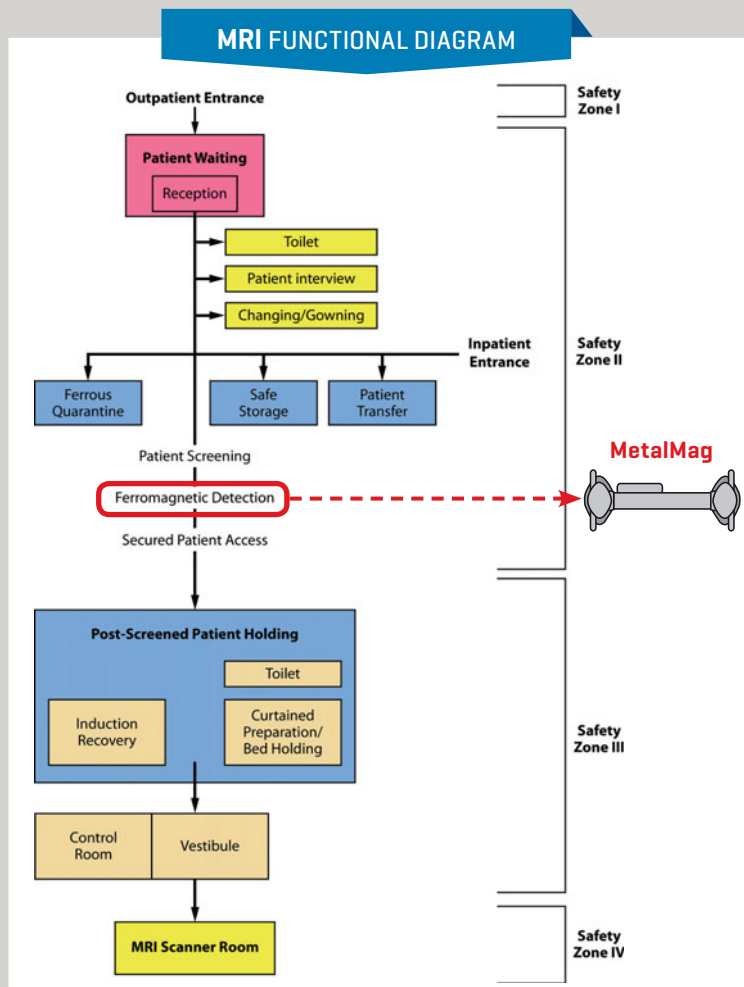
Detection Features



- The capability to detect the full range of MRI safety threats, according to the sensitivity level selected
- Quick, accurate analysis of all the parts of the body for the individual in transit



- 60 pinpointing zones with high resolution and precision: > 20 vertical, 3 Lateral



"All non-MR personnel wishing to enter Zone III must first pass an MR safety screening process...one should assume that screened [persons] may enter the bore of the MR imager during the MR imaging process."

Source: The American College of Radiology Expert Panel on MR Safety in the ACR Guidance Document on MR Safe Practices: 2013

CEIA is a world-leading manufacturing company specialized in the design, engineering and production of metal detectors and electromagnetic inspection devices.

MetalMag incorporates the benefits of magnetometers and metal detectors, allowing a rapid analysis of the patient in the search for any ferromagnetic metal objects while discriminating objects such as prostheses and implants that are not dangerous in the MRI environment.

Unmatched Throughput



- Leading-edge discrimination technology allows safe items to automatically be filtered, including standard eyeglasses and underwire bras.
- No need for specialty metal-free clothing or stringent operating procedures

The MetalMag discrimination technology allows it to process MRI staff and patients quickly as they enter and exit the MRI zone III area, utilizing proprietary filtering algorithms to eliminate unnecessary alarms.

The zone target identification provides the MRI staff with the location of the area where the item has been detected for quick removal or immediate recognition. Screening performed upon a single transit, no need for subjects to spin or make multiple passes.

Unique Alarm Signaling



- Flexible acoustic alarm signaling system for staff-friendly environment
 - ✓ 34 Unique Sounds
 - ✓ 10 Continuous and Pulsed Tones



- 4 multi-zone display bars, each programmable as entry Stop/Go and/or local alarm indication
- High visibility of the control unit and zone indication, independent from the operator position and the installation environment
- Optional remote indication of detector operation

Accurate signaling is essential for best operation and flow management. The MetalMag provides the user with fully-programmable signaling. Both entry-points can indicate with a high level of accuracy, even simultaneously, the vertical and lateral areas of transit of the threats detected, and can also be configured as traffic lights to control transits through the detector.

OK



ALARM





Specifications

KEY FEATURES	Automatic Detection of metallic items and ferromagnetic materials located on the person or inside the body that are considered dangerous in MRI Scans		Automatic Technical Functional Verification (TFV)
	Revolutionary Technology that filters and suppresses alarms for safe items such as underwire bras, eyeglasses and shoes ends alarm fatigue and guesswork		Automatic Environmental Noise Compensation (ENA)
	60 localization zones (20 vertical x 3 lateral) with left, center and right indication		Chip Card capability for fast, simple, and secure programming
	One touch automatic self installation (OTS)		Met-Identity technology identifies and signals the metal type in real time
	Automatic Operational Functional Verification (OFV)		High precision bidirectional counter with automatic rescreening compensation
	Automatic Vibration Compensation (AVS,EVA)		Exceptional Immunity to external interferences
	Automatic Channel Search (CS)		Random alarm capability programmable from 0% to 100%
	Automatic Floor Gain Adjustment (FGA)		Powered by safe low voltage DC
			Standard Interfaces: Bluetooth, Infrared
		Other available interfaces: Ethernet, USB	
QUALITY	Continuous self diagnostic system		
	Proven reliability		
	No periodic re-calibration and preventive maintenance required		
	No scheduled maintenance		
Fully digital design			
WALK-THROUGH GATE STRUCTURE	State-of-the-art, robust, washable and compact elliptical columns		
	Protected against aging, weather and wear		
CENTRAL CONTROL UNIT	Ergonomic and robust design		
	High visibility alphanumeric display and programming keyboard		
	Made of advanced plastics or stainless steel and anti-vandalism construction (option)		
Access to the front panel protected by hardware key and 3 levels of passwords			
ALARM SIGNALING	VISUAL SIGNALS	Multi-zone display bar for "height on person" localization	
		4 light bars with selectable entry/exit and pacing indication	
		Green and red metering signals proportional to the mass of the detected target	
	AUDIO SIGNALS	10 selectable continuous and pulsed tone plus 34 special tones	
10 selectable sound intensities ranging from 0 to 90 dbA at 1m			
TYPE OF SIGNALING	VISUAL	Fixed or proportional to the mass in transit - visible from 6m under lighting of 4000lux	
	VISUAL ZONE INDICATION: 60 distinct zones (20 vertical x 3 lateral) entry and exit side		
PROGRAMMING	Remote via Infrared Remote Control Unit, Bluetooth™ or Ethernet 10/100 base T (option) interface		
	Local by Control Unit alphanumeric display and keyboard		
	Programming and chip card access protected by user and super-user passwords		
OPERATIONAL FEATURES	Very high discrimination and transit flow rates five or more times greater than other metal detection systems		
	Quick reset time as short as 0.2 seconds for high throughput rate		
	Very high detection speed (up to 50 ft/sec.)		
	Built-in operational functional verification		
One-touch key reading of inbound, outbound and Security Level Data			
INSTALLATION DATA	Automatic synchronisation between two or more metal detectors with distance of down to 2" without the use of external cables		
	Automatic Installation function (OTS)		

ENVIRONMENTAL DATA

- POWER SUPPLY : 100...240V~ -10/+15%, 47...63Hz, 40 VA max
- OPERATING TEMPERATURE: -4°F to 158°F (-35°F to 158°F upon request)
- STORAGE TEMPERATURE: -35°F to 158°F
- RELATIVE HUMIDITY: 0 to 95% (without condensation)

CERTIFICATION AND COMPLIANCE

- Compliant with the applicable electromagnetic Standards on Human Exposure and Pacemaker Safety
- Compliant with applicable International Standards for electrical safety and EMC
- Harmless to magnetic media (CDs, tapes, etc.)

COMPREHENSIVE SUPPORT

CEIA USA PROVIDES FULL OPERATIONAL AND TECHNICAL TRAINING SUPPORT BY CERTIFIED PERSONNEL EITHER AT CEIA USA FACILITY OR AT CUSTOMER PREMISES

- phone technical support
- in-house and on-site repair/services
- standard and custom training



www.ceia-usa.com

CEIA USA Ltd - 9155 Dutton Drive, Twinsburg OHIO - 44087 USA
 Phone: 330-405 3190 • Fax: 330-405 3196 • E-mail: security@ceia-usa.com • Call 1-888-532-CEIA

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