



SmartLED™ MRI Lighting System

The Turn-Key Solution for Safe Illumination in MRI Spaces

www.kirlinlighting.com

Why MRI Lighting Matters

Lighting that supports patient care and scan accuracy

MRI imaging is sensitive, precise, and unforgiving. Even minor electrical interference or magnetic disruption can impact the quality of scans and patient safety. That's why lighting in the MRI suite isn't just a detail—it's a critical part of the environment.

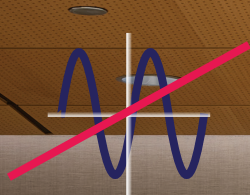
Kirlin's SmartLED™ MRI system is engineered specifically for this space, with non-ferrous construction, DC-powered drivers, and full shielding to ensure zero interference and lasting performance.



4 Key Requirements for MRI Lighting

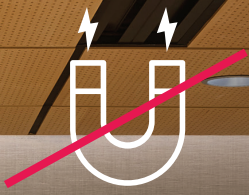
What makes lighting truly MRI-safe?

Lighting in MRI environments must meet specific engineering and safety criteria. Kirlin designs every component with these requirements in mind.



DC Power Only

AC power introduces RF interference. Kirlin luminaires operate exclusively on clean, non-pulsed DC power.



Non-Ferromagnetic Materials

All SmartLED™ fixtures use non-ferrous components—even down to fasteners—to avoid magnetic risk.



Shielded Room Integrity

Lighting must maintain the effectiveness of the room's copper RF shield. Kirlin components are designed for full compatibility.



Proper RFI/EMI Filtering

Every wire entering the MRI suite must be filtered. Kirlin provides matched RFI/EMI filters for all fixtures.

Standard Lighting vs. SmartLED™ MRI Lighting

A side-by-side look at what matters most.

Feature	Standard Lighting	Kirlin SmartLED™ MRI
Non-Ferrous Construction	✗ Often steel	✓ 100% MRI-safe
RF/EMI Protection	✗ None	✓ Fully Filtered
Power Type	✗ AC	✓ DC-only
Fixture Testing for 7T	✗ Not tested	✓ Proven at 7T
Remote Driver Capability	✗ Limited	✓ System-wide
Visual Comfort / Dimming	⚠ Limited	✓ Smooth to <1%
Imaging Interference	⚠ Risk of artifacts	✓ Interference-free

SmartLED™ MRI: A Complete, Turn-Key System

Everything you need for MRI-safe lighting in one package

Kirlin's SmartLED™ package is more than parts—it's a system that works together from day one.

For decades, Kirlin has engineered MRI-safe lighting systems that work exactly as intended—from the first scan to the ten-thousandth. With components designed and tested to work together, the SmartLED™ system eliminates compatibility issues and simplifies every step of the process.

What Makes It Turn-Key?



**Everything
you need:**

Luminaires, drivers, filters, scenic panels, and even color-changing



**Engineered
to integrate:**

Components are designed to work as a system—not just a collection of parts



**Fully
MRI-compatible:**

Works with any brand of MRI equipment



**Trusted
by top facilities:**

Installed in thousands of suites worldwide



**Made
in the USA:**

Short lead times, fast shipping, reliable support

Clinical & Operational Advantages

**Integrity. Safety. Selection. Better for patients.
Smarter for staff. Trusted by engineers.**

INTEGRITY



With over 1,000 MRI suite installations, Kirlin delivers reliable performance backed by decades of field experience. Every component is tested for MRI safety and made in the USA to the highest quality standards.

SAFETY



Our system uses non-ferromagnetic materials, clean DC power, and EMI/RFI filtering to prevent scan interference. Fixtures are designed for long life with minimal maintenance.

SELECTION



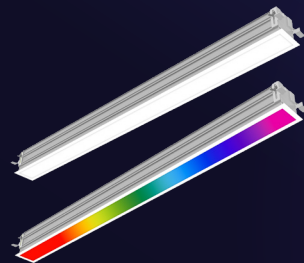
Choose from a range of MRI-safe fixtures, including downlights, linears, scenic panels, cove lights, and color-changing options. All dimmable, low-glare, and offered in multiple lumen packages and styles.

System Components Overview

Your system, all from one source.

Fixtures, drivers, filters, inverters, controls—engineered to work together. Kirlin's MRI lighting solutions are built from the ground up to work together. Every part of the system is designed with compatibility, safety, and ease of installation in mind.

SmartLED MRI System Components:



MRI-safe luminaires
(static white or RGBW)



Remote-mounted drivers



Cabinet enclosures



RFI/EMI filters



DMX controller with pre-set scenes (RGBW)

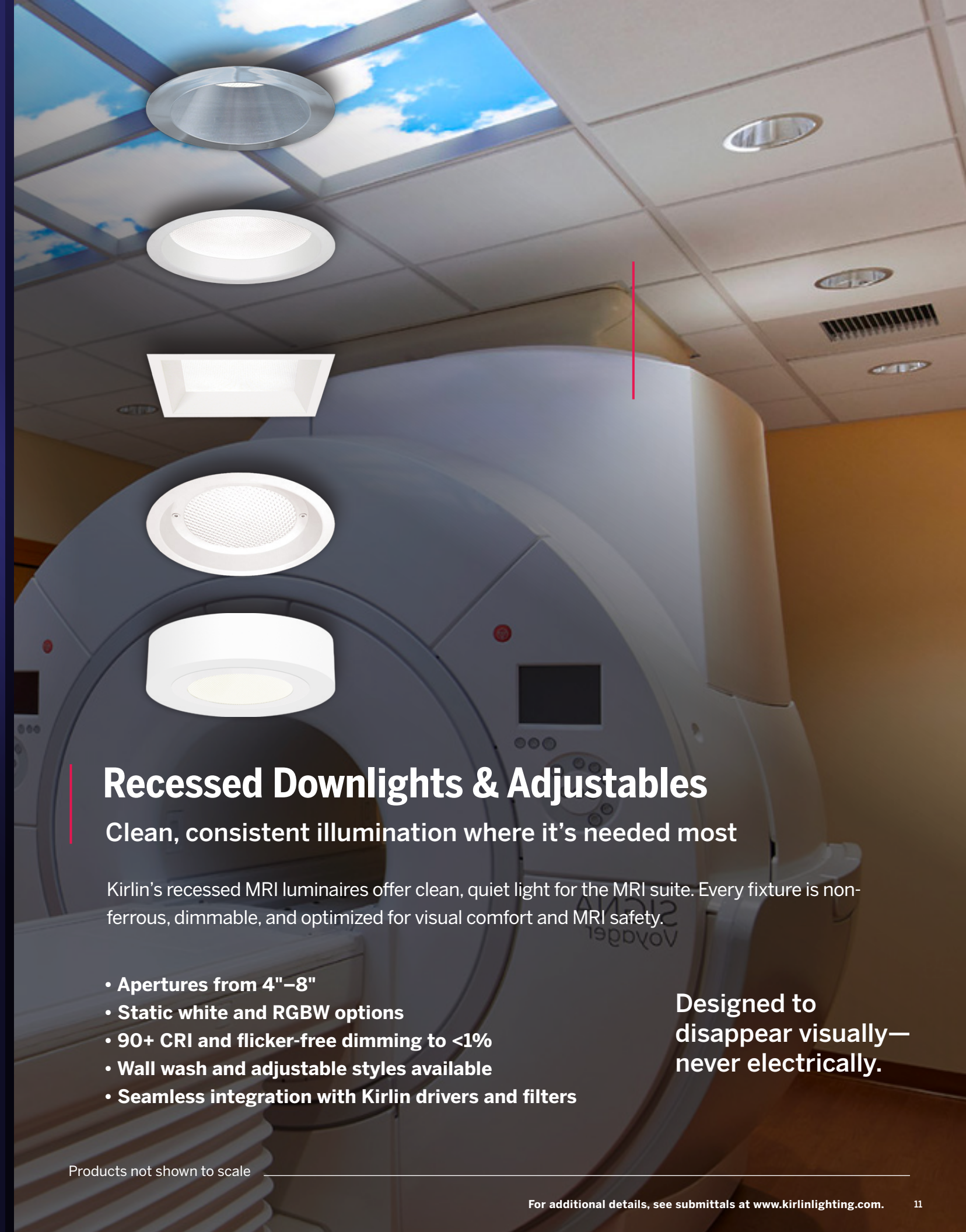


Optional emergency inverters

Use our MRI Configurator to determine what you need, how it connects, and how it all fits.



Products not shown to scale



Recessed Downlights & Adjustables

Clean, consistent illumination where it's needed most

Kirlin's recessed MRI luminaires offer clean, quiet light for the MRI suite. Every fixture is non-ferrous, dimmable, and optimized for visual comfort and MRI safety.

- Apertures from 4"–8"
- Static white and RGBW options
- 90+ CRI and flicker-free dimming to <1%
- Wall wash and adjustable styles available
- Seamless integration with Kirlin drivers and filters

Designed to disappear visually—never electrically.

Products not shown to scale

Linear, Cove & Undercabinet Lighting

Architectural options for visual comfort and design flexibility

Kirlin's linear lighting options offer more than clean lines—they bring flexibility, comfort, and visual harmony to the MRI suite. Whether you're outlining architectural elements, adding soft cove lighting, or delivering task lighting below cabinetry, these fully MRI-compatible fixtures integrate seamlessly into any design vision.

- **MRL-2 Slot Lights:** 2.5" recessed form factor; direct or asymmetric distribution; static white or RGBW
- **MCL Cove Lighting:** Ultra-slim uplight for ambient illumination; fits standard coves; RGBW or static white
- **Undercabinet:** Clean, practical task lighting for millwork or prep areas; static white

All fixtures integrate into the SmartLED™ system with the same remote drivers, RFI filters, and configurator tools—making planning and installation simple.

Scenic Panels

Visual escape for a calmer scan

Kirlin's scenic panel lights reduce patient anxiety, support pediatric care, and bring visual warmth to otherwise clinical environments.

- Regressed panels give the illusion of a window
- Over 100 standard images available and custom images upon request
- Fully dimmable and low maintenance
- Compatible with MRI-safe drivers and filters

Use the Scenic Panel Configurator to build and preview your layout before ordering.



SIEMENS
Healthineers

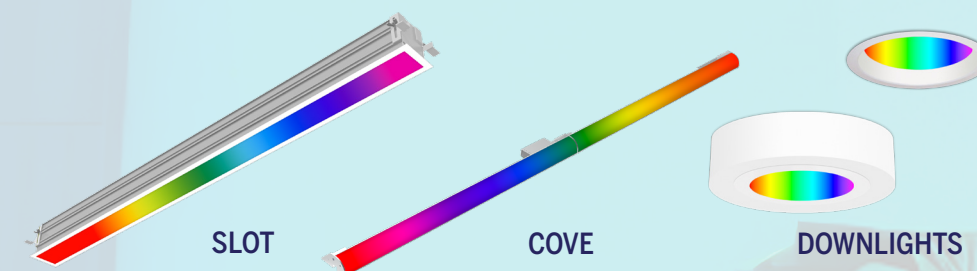
MAGNETOM Vida

A BioMatrix System

Color-Changing MRI Lighting

Make MRI suites memorable for the right reasons

Color-changing lighting can make a clinical space feel anything but clinical. Kirlin's RGBW luminaires create immersive environments that support patient calm, reduce scan movement, and offer facility branding flexibility.



- RGBW options available in downlights, linears, and cove lighting.
- Color changing is available during scans with zero image interference.



- Pre-programmed DMX controller with 6 calming scenes
- Plug-and-play wiring with RJ45-style connections
- Award-winning innovation

Create a sense of place, personalize the experience, or just make it less stressful.

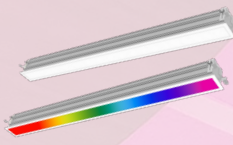
Design Flexibility & Controls

A lighting system that works with your layout, not against it

Every MRI suite is different. That's why SmartLED™ offers flexibility in layout, installation, and control—all while maintaining MRI safety.



Mix and match fixture types and outputs



Use static white, RGBW, or both in one system



Remote drivers for easier maintenance access



DMX, 0–10V, and emergency-ready control options



Pre-tested for compatibility and scan safety

Whether your layout is linear, thematic, or minimal—
SmartLED™ adapts to your design.

MRI Configurators & Support Tools

Plan with precision, quote with confidence

No guesswork. No mismatched parts. Kirlin's MRI tools help you plan confidently and quote accurately.



SmartLED™ MRI Configurator

Calculate what drivers and filters you'll need based on your fixture choices and layout.



Scenic Panel Configurator

Choose panel layouts, explore image and frame color options, and preview your full layout before ordering.



Plus: real-time support

From Kirlin's in-house team for anything the tools can't answer.



Front Cover:

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Products: MRR-06420 & MRI-CABNT

