



ADVANCED ELECTRICAL KIT WITH MRI AMBIENCE FOR RF CAGE

FS/MRI/EL/AD/MOD- 0124

- ▶ SIMPLE ▶ PLUG & PLAY ▶ FOOLPROOF
- ▶ ZERO NOISE ▶ MRI AMBIENCE



FRANK SHIELDS

MRI COMPATIBLE DIMMABLE LED DOWN LIGHTS

Frank shields MRI compatible LED lights; designed to be installed inside the MRI room and works in the sensitive MRI area without creating any artifacts in the MRI images.

The MRI compatible LED lights are manufactured with non-magnetic shield casing and fixtures. Every individual light has got a specially designed circuit from Frank shields, which provides constant current to the light and emits no interference inside the room.

The power supply for the light is installed outside the MRI room and connected to the lights through the filter provided with the kit.

The standard MRI compatible LED Light kit consists of the following.

Down light

- Down lights 16 watts-8 nos.
- DC power supply -1 nos.
- Filters-2nos.



MRI COMPATIBLE DIMMABLE LED SPOT LIGHTS

Frank shields compatible LED lights; designed to be installed inside the room and works in the sensitive area without creating any artifacts in the images.

The MRI compatible LED lights are manufactured with non-magnetic shield casing and fixtures. Every individual light has got a specially designed circuit from Frank shields, which provides constant current to the light and emits no interference inside the room.

The power supply for the light is installed outside the MRI room and connected to the lights through the filter provided with the kit.

The standard MRI compatible LED Light kit consists of the following.

Spot Light

- Spot lights 3 watts-12 nos.
- DC power supply -1 nos.
- Filters-2nos.



MRI COMPATIBLE MOOD LIGHTS



The mood lights from Frank shields are designed for a MRI room to provide good ambient lighting with changing colors (RGB) and intensities, to create a soothing environment.

Frank shields mood light consists of RGB LED strips as a standard 30 meters length. The led lights are non ferrous RGB light strips mounted on aluminium housing. The LED strips are mounted as a interior architectural design lighting package. The LED lights are driven by our specially designed circuit, which drives current to the LED lights without creating any changing magnetic fields and any RF interference inside the MRI room.



The mood light controller is installed outside the MRI room and connected to the lights through the dedicated filters provided with the system.

The user is also provided with a remote control for swapping colors or sequence and adjusting the intensity of lighting.

The RGB module can be configured with the video signal where the color pattern of the RGB follows the video signal like the ambient but the remote will be disconnected.



The standard mood light configuration consists of the following.

- RGB strip 30 meters
- RGB remote control
- RGB driver and controller unit
- RF filter for RGB 4 Nos

MRI COMPATIBLE WALL AND CEILING PICTURE PANELS

The MRI compatible picture panels are manufactured with MRI compatible backlit panels with selected picture theme to be installed at the ceiling or on the wall. These pictures are stationary and provide a feeling of open external environment which provides a soothing effect.

There have been hundreds of research reports showing the positive effects of incorporating healing art and biophilic friendly products into health care design. Biophilic spaces can reduce unnecessary stress and depression, enhance positive social response, speed up recovery times and providing medical patient distractions. Sky ceilings are becoming more popular in medical facility design because they are visually therapeutic and create an open feeling. Even claustrophobic spaces seem wide open. A typical MRI or CT scan can terrify the bravest souls and cause unnecessary stress. Aesthetically designed MRI Rooms create a user friendly environment which is a positive marketing tool and gives your facility a strong competitive edge.



Studies have proven that graphic panels with nature imagery

- Lower blood pressure.
- Reduce stress / anxiety.
- Decrease muscle tension.
- Reduce pain.
- Re-direct negative thought.
- Visually therapeutic and create an open feeling.





The panels comes in different sizes.

- MRI compatible picture panel: 600 x 600 (Panel size)
- MRI compatible picture panel: 1200 x 600 (Panel size)
- MRI compatible picture panel: 1200 x 1200 (Panel size)
- MRI compatible picture panel: 1200 x 1800 (Panel size)
- MRI compatible picture panel: 1200 x 2400 (Panel size)

POWER SUPPLY MODULE



Frank Shield specializing in plug-and-play power supply modules, focuses on creating solutions that simplify the connection and integration of power supplies in various electronic and electrical systems. Here's a brief overview of what makes these types of modules advantageous:

Key Features of plug-and-play power supply modules:

1. Ease of use:

- Simple connections: Designed for easy and intuitive connections, reducing the need for complex wiring or specialized knowledge.
- Pre-wired solutions: Often come with pre-wired connectors, minimizing the time and effort required for installation.

MODULAR TYPE RF FILTER



Frank Shield's modular plug-and-play RF filters are engineered to simplify the integration and management of RF filtering in various systems.

- ☒ Simple Connections: Designed to connect quickly and easily with standard interfaces or connectors, reducing setup time and complexity.
- ☒ User-Friendly Setup: Requires minimal technical expertise for installation, making it accessible to a broader range of users.

REMOTE CONTROLLER



Remote control unit designed for managing both down lights and RGB lighting, with an additional bypass switch feature. Here's a detailed look at how such a unit typically operates and its benefits:

Features of the remote control unit:

1. Remote control for downlight and RGB Lighting:

- Downlight control: Adjusts the brightness and possibly the color temperature of downlights, which are often used in ceilings for general illumination.
- RGB Control: Manages RGB (Red, Green, Blue) LED lights, allowing users to change colors and create various lighting effects by adjusting the color mix and intensity.

2. Bypass Switch:

- Purpose: Allows users to bypass the remote control system and control the lights manually or switch them on/off directly.
- Functionality: Useful in scenarios where remote control might not be operational (e.g., if the remote battery is dead) or when a simple manual override is preferred.

MODULAR INTERFACE FOR CABLING & POWER OUTLETS



1. Frank shields modular interface for cabling and power outlets is designed to provide flexibility, ease of installation, and adaptability in managing electrical connections and power distribution.

2. Plug-and-Play: Modular components can be easily connected and disconnected, simplifying installation and maintenance tasks.

BLOCK DIAGRAM



CONSOLE



**TECHNICAL
ROOM**



**INTERFACE
MODULE**



FILTER





FRANK SHIELDS

Frank Shields Medical Equipment LLC.
Office No.3 Jurf 2 Industrial Area Ajman UAE
Website: www.frankshield.com
Email: info@frankshield.com

Frank Shields Pvt Ltd
Industrial Park (Adibatla), Nadergul, Balapur,
Mdl, RR District Hyderabad, 501510, India
Website: www.frankshield.in
Email: info@frankshield.in