**PRODUCT DESCRIPTION**

MedLux® Cove is offered in both MRI-Safe and non-MRI versions. The MRI system features a unique (patent pending) control method designed specifically for operating LEDs in an EMI free environment. Only reputable name brand LEDs are used assuring long-life and even color consistency.

The MRI-Safe system also uses a proprietary driver module requiring only one (1) power filter and three (3) signal filter channels for the entire system. A keypad/controller module allows for finite color adjustment of the system and six (6) user defined programmable color settings. White only systems are controlled by a standard MedLux® MDL Dimmer, or XLM dimming interface modules.

**GENERAL SPECIFICATIONS - RGB & White LED Cove Light Fixtures**

- **Dimensions/Sizes**: 1.35"W x 0.75"H x 6.125", 12.125", 18.125", 36.125", 48.125" and 72.125" lengths
- **Construction**: Enclosure base: Extruded ABS; LENS: Diffuse "Satin Ice" acrylic; End caps consist of injection molded diffuse "Satin Ice" acrylic
- **Light Source**: RGB or White LEDs on 1" pitch, 1/3W per LED
- **Input**: 24VDC @ 0.125A max. per foot (3W per foot)
- **Input**: 24VDC @ 0.125A max. per foot (3W per foot)
- **Colors Available**: RGB - Continuously variable from a palette of 262,000 Fixed colors - Red, Green, Blue and Custom White – 2700K, 3000K, 3500K, 4000K, 5000K, 6500K
- **Electrical Interconnects**: Gold plated plug & socket; Connector exit-right angle on each end of profile; Optional extension harnesses available for corners
- **Safety Agency**: UL2108, UL8750; cULus Listed, E361133; CSA C22.2 No. 9.0-96
- **Mounting Method**: Extruded plastic clip/rail system (supplied); Stainless steel hardware recommended

**Note**: Photometric information shown above applies only to white modules.
**MedLux® COVE**

**LED cove lighting system**

for MRI & non-MRI applications

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**GENERAL SPECIFICATIONS**

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**White/Monochrome Dimmer Kit (ECL-53-CR)**

- **Dimensions**: 4.5"H x 2.75"W
- **Input Voltage**: 16VAC, 50/60Hz, or 15VDC to 48VDC Class 2 Power Source
  (16VAC Transformer, Mounting plate, and Connecting Cable supplied)
- **Input Power**: 2.4 Watts, 4.8 VA (Assuming Non-PFC Power Source)
- **Safety Rating**: All circuitry meets NEC Class 2 requirements
- **Output**: 0 to 12 VDC, pulse width modulated, trapezoidal wave, 100mA max.
- **Operating Frequency**: Operating frequency = 140Hz
- **Controls**: ON - Press to activate dimmer, sets output to FULL ON
  ARROW UP - Press or Press-and-Hold to increase brightness
  ARROW DOWN - Press or Press-and-Hold to decrease brightness
  SAVE - Place current brightness setting into memory
  PRESET - Recall last "saved" brightness setting
  OFF - Press to turn lights OFF; dimmer "night light" remains active
- **Wiring Description**: Class 2 Plenum rated signal cable and installation instructions supplied
- **Mounting**: Separate standard single gang wall switch box, minimum 2"W x 2.75"H x 3"D (inside clearance, 20.3 cu. in. typical)

**RGB Keypad/Controller Module (ECL-47-KIT)**

- **Input Power**: 16VAC or 24VDC @ 5VA from a Class 2 recognized power source
  (supplied with system)
- **Outputs**: Four configurable signal channels providing any one of the following:
  130Hz PWM, BCD digital, RS-485 Serial
- **Dimensions**: Keypad is 4.5"H x 5.0"W, flush to wall;
  Controller is attached to keypad, 2.8"H x 1.9"W x 2.7"D
- **Wiring Description**: Cat5 signal cable and installation instructions supplied
- **Mounting**: Requires standard double-gang switchbox, with minimum depth = 3" **Note**: Keypad is too wide to permit side-by-side mounting in a quad-gang box
- **Maintenance**: No user serviceable parts; May be cleaned with most household cleaning agents
- **Basic Operation**: Cycles through a "rainbow" of color combinations; Cycle rate is user adjustable; "Color Hold" function allows any color to be selected and maintained statically indefinitely; Up to six (6) static selections can be placed in memory for immediate recall at any time

**Driver Module (ECL-42-00)**

- **Power Input**: 24VDC at 1.1A maximum
- **Signal Inputs**: Analog RGB (0-10VDC); BCD Digital;
  DMX512-A or Proprietary Serial Data,
  both via RS-485 (two wire) data link
- **# of Output Channels**: Four (R, G, B, W or A)
- **Output rating**: 10/20VAC at 250mA maximum per channel;
  Sufficient for 325 - 430 feet of cove strip
- **Modulation**: Proprietary; MRI Compatible
- **Dimensions**: 11.5"H x 8"W x 5"D
- **Weight**: 6.1 lbs.
- **Safety Agency**: UL8750, UL1310
GENERAL SPECIFICATIONS

Power Supply Assembly (ELT150-24U; 150W) / (ELT600-24U; 600W)

Output Voltage 24VDC +/- 3%

Output Current
- (150W): 6.25A maximum
- (600W): 25A maximum

Input Voltage 110/220VAC (switch selectable) Note: Optional step-down transformer available

Input Current
- (150W): 2.27A (250VA) max. @ 110V; 1.14A (250VA) max. @ 220V
- (600W): 9.1A (1kVA) maximum @ 110V; 4.6A (1kVA) maximum @ 220V

Enclosure NEMA Type 1 (supplied)

Dimensions 12”H x 10”W x 6”D

Weight est. 16 lbs.

Safety Agency UL60950; EN60601

Approval/Rating U = UL, M = Medical (choose one)
Note: Medical rated device available but not required due to nature of product/application.

Facility & Signal Filters (Supplied by third party)

Facility Power filter
- Input Rating: 277V AC/DC maximum, 2 x 30A maximum
- Attenuation: 3dB maximum at 300Hz; 110dB minimum at 1MHz
- Wiring: Standard L/N/E

Signal Filters (2 each)
- Input Rating: 50VDC minimum, 2 x 300mA maximum
- Input Impedance: 600 Ohm minimum, signal to ground
- Attenuation: 3dB maximum at 23kHz; 110dB minimum at 1MHz
- Isolation: No cross-coupling between channels

Class 2 Wiring Distribution/Fuse Box (ECL-35M-xx/ECL-35V-xx; Includes fittings):

Input 50VDC maximum, 24A maximum (Class 1 wiring required)

Outputs (6 each) 50VDC maximum, 3.3A maximum (Class 2 wiring allowed)
Note: Actual current available depends on input voltage per NEC section 725

Dimensions 10.5”H x 7.25”W x 3.75”D

Material Polycarbonate, Enclosure rated

Weight Est. 4 lbs.

Safety Agency UL8750; UL1310; NEC section 725

Approval/Rating ECL-35M-xx = for monochrome systems (white/any solid color)
ECL-35V-xx = for variable color systems (RGB)

Wiring Method
The MedLux® Cove System can have a total of 162 linear feet per power supply (480 Watts max. power). Class 2 wiring limits loading to no more than 3.33A per circuit and can operate a maximum of 27” per circuit with up to six (6) circuits per supply. Separate Class 2 cables must be routed to the approximate mid-point of each 27” run. Power and control feeds require appropriate facility and signal filters (supplied by others).
System Configuration Nomenclature - Part A

Module Ordering Nomenclature - Part B

Optional XLIM Digital Dimming Interface Kit (Note: Use only with white/mono-chrome systems.)

Note: Each application will have varying shapes and lengths. Repeat Part B entry for each size Cove Light Module required. The sum of the number of modules specified, multiplied by their length, should equal the total length specified in the MALS-xxx.x-xx system part number ordered.

Optional XLIM Digital Dimming Interface Kit

P/N 006-00001K

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LED MEDICAL LIGHTING

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