






F-4 TASK LIGHT - TOUCHLED

PRODUCT SPECIFICATIONS

Operating voltage:	10-30VDC Integrated voltage regulation +/- 20%
Luminous flux:	approx. 80 lumen
Light intensity:	approx. 95 candela/ 105 Lux centric in the distance of one meter
Aperature angle:	44°
Electrical safety:	Polarity reversal and overvoltage protection
Temperature sphere:	-25°C to +70°C / -13°F to 158°F
Lifespan:	light intensity (50%) after approx. 20.000 hours. Linear degrading with 0,0023% per hour on operation
Power consumption:	OFF state (red LED in stand-by mode) 0,01A Night-light mode (red LED is full on) 0,02A ON state (All LEDs are on) 0,15A
Approvals & Classifications:	  

GENERAL

The F-4 series is a new generation LED task light that is the result of combining high-tech components with high-tech functionality. The F-4 incorporates a cutting-edge microcontroller with the latest highpower Light-Emitting-Diodes (LEDs). Use of LEDs results in miniscule power consumption, low operating temperature, vibration resistance, and extremely long life. The high tech microcontroller allows the end-user to take complete control of his/her lighting with a simple touch of one's finger.

The F-4 Task Light microcontroller performs **three main functions**:

1. Main light illumination with the power of 15 white LEDs and one red LED
2. Night-light function from the red LED situated in the center of the board
3. ON/OFF switching, or mode change, by the red LED in the middle

When the light is first connected to its power supply, a self-test is performed by the integrated microcontroller. It is checking for proper voltage and automatically switches the LEDs into the required operating state: day mode or night mode. This process initiates with a brief flashing of the center red LED. **Warning!** Do not cover the red LED during this self-test process as it could result in an incorrect operating state. Resetting may be accomplished by switching off the power supply.

The center red LED performs the ON/OFF switching and serves as the night-light function as well. The night-light function is activated automatically when it becomes dark. It will transform from its dim stand-by mode to a full-on red light mode which is bright enough for chart reading in the dark. By quickly touching the center red LED you can switch ON/OFF the 15 white LEDs. The night-light function automatically deactivates when room becomes bright.

The red night-light function can be deactivated if it is not desired. This is achieved by one long touch (min. 3 seconds) to the center red LED. In this case, the center-red LED will remain in its stand-by mode, giving off a very subtle glow; just enough to allow one to locate the touch spot should it be necessary to turn on the light in the dark. Any change in operation mode is initiated by a brief quick flashing of the center red LED.

IMTRA Corp.
30 Samuel Barnet Blvd
New Bedford, MA 02745
Ph: (508)995-7000
Fax: (508)998-5359
Email: lighting@imtra.com
WEB: www.imtra.com

