

Indispensable aid to Night Patrolling and Surveillance

SUPER LIGHT

RELIABLE MICROCONTROLLER BASED DESIGN



Tested by E.R.T.L. (Electronic Regional test Laboratory)

SUPER LIGHT - II

Brilliant Beam illuminates target at 350 meters and over
Rugged Weather Resistant ABS Construction
Single Control to Select All Functions for Ease of Operation
Automatic Dimmer, Timer and Flash Functions
Internal SMPS Battery Charger for 90-270 Volt Operation

SUPER LIGHT - III

With Digitally Encoded RF Remote Control Option



**STATIC
SYSTEMS**

SUPER LIGHT-II/SUPER LIGHT-III

SUPER LIGHT-II and SUPER LIGHT-III are Micro-controller based, high-reliability, rechargeable, cordless lamps capable of illuminating targets at a distance of over 350 meters. They are designed for combat use under the most arduous conditions.

They are equipped with deep focus, sealed beam units rated at 55 Watts each. The bulbs are highly resistant to shock and vibration. Both have a built in CC/CV SMPS charger to optimally charge the sealed 12V/7AH battery at specified rating. All other features being similar, SUPER LIGHT-III is with the RF remote control option.

Salient Features

- Easy to carry with specially designed handle and shoulder strap to reduce fatigue.
- Operates continuously for over 60 minutes on self-contained, internally rechargeable, 12V/7AH sealed lead-acid battery. Operates for 2 Hours & 5 Hours in Dim-1 & Dim-2 Modes.
- Built in high-performance short-circuit proof CC/CV(Constant Current/Constant Voltage) SMPS thermal shut-down battery charger which charges the battery from an input of 90-270V while preventing the battery from overcharge by limiting both the battery current and voltage.
- Microcontroller based, single switch operated, Direct(Full Light), Dim-1(Medium Light), Dim-2(Low Light), Automatic Timer, Automatic Flasher and Remote control functions.
- Wireless remote operation through encoded transmitter and receiver (SUPER LIGHT-III).
- Low battery warning light indicates when battery is exhausted.
- Automatic low battery cut-off when battery discharges below 10.5V to prevent deep discharge.
- Manual flash switch is left operable during battery cut-off to cope with emergency situations.

Technical Specifications

Shell and Fitting

Tubular, heavy duty molded and seamless, 3mm thick, ABS construction. Strong contoured handle. Front cap with resting support to prevent rolling on any surface. Adjustable nylon shoulder strap.

Light Source

12Volt, 55Watt halogen lamp fitted in specially designed parabolic reflector with toughened glass dome having a very powerful beam which illuminates targets over 350 meters away.

Control Circuit

Reliable microcontroller based design with contactless MOSFET switch using industrial grade components for high reliability and years of trouble free service. The built-in SMPS battery charger employs the world's most efficient switch mode design providing unique features like thermal shut-down and protection against all abnormal conditions.

Operating Temperature

From -20° Centigrade to +50° Centigrade

Operation

Direct: For continuous operation up to 1 hour

Dim-1: For continuous operation up to 2 hours

Dim-2: For continuous operation up to 5 hours

Timer: The light shuts off automatically after a fixed time period (preset for 15, 30, 45 or 60s)

Flash: Auto Flasher 45 flashes/Min approx..

Remote Control (SUPER LIGHT-III)

UHF remote control with unique 12-bit digital encoding to provide individual operation of each search light even when a number of them are used in the same area. The remote control works from a distance of up to 100 meters (Line of sight). However, the range may vary by $\pm 20\%$ due to differences in terrain and weather.

Battery Charger

A very high quality switch mode battery charger which employs the world's most sophisticated and integrally safe switching devices is provided. The charger will work from a mains voltage of 90-270 Volts. The special CC/CV design is optimized to charge the battery at a constant current of 1 Amp $\pm 10\%$ while limiting the battery voltage to maximum 14.4V

Charging Period

1) The recommended minimum time to fully charge the battery after the battery low indicator is lit is 8 hours and,

2) The recommended minimum time to fully charge the battery after the battery has been cut off due to deep discharge is 10 hours.

Dimensions and Weight

| | |
|------------------|-------------------------|
| Front Diameter : | 160 mm. |
| Rear Diameter : | 130 mm. |
| Length : | 300 mm. |
| Weight : | 4.5 Kgs. (with battery) |

Due to our constant endeavor to improve our products, we reserve the right to change specifications without prior notice.



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