



Security Defence Systems

Plot No. 50, DIC, Industrial Area , Baddi, Solan (H.P)

Web: www.sdschd.com

Email: rajeshmkt@yahoo.com

Phone: 0172-2632668

raghavendersahdev@gmail.com

Mobile: 09814014406

Fax: 0172-2633668

HAND HELD SEARCH LIGHT DAZZLE 2000



MODEL : DAZZLE 2000

Construction

Dazzle 2000 is made of Super Tough glass filled with Nylon material with minimum 2mm thickness and in one piece construction.

Lamp

Suitable for 50W/55W halogen lamp

Operating Range

Operating range is 1km (1000m).

Beam Distance

Beam distance is at-least 350 meters to detect group of persons. Shock resistant front glass.

Battery Charger

SMPS inbuilt charger working from 100V to 270V, 50Hz.

Operations

- Special dimming feature for Indoor uses.
- Emergency lighting effect for Indoor uses.
- Timer and continuous mode.
- Auto flashing feature with variable ON/OFF time.
- Manual flashing mode.



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Indicators

Advance low battery status indication is also provided with long delayed audio beep. DC blown fuse indicator is provided on the panel.

Add-on Options

- Adjustable timer
- Remote control
- Tripod stand



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LED SEARCH LIGHT LED 2030



MODEL : LED 2030

Casing

Body of HHSL (hand held search light) is heavy duty, water resistant and one piece molded with integral handle of ABS/Engineered plastic. It is light and corrosion proof and the maximum weight including the battery is 1.5 Kgs and a maximum length of 35cm.

Construction

- The LED lamp is of 30 Watts.
- The battery is replaceable by unscrewing back cover without disturbing electronics.

Battery

Rechargeable lithium ion battery with run time of 5 hours & 6 hours at low beam & high beam respectively.

Housing of battery

- There is adequate space around the battery in the housing for dissipation of heat developed while battery is charging.
- The battery fuse is easily accessible from outside for ease of replacement.

Lamp

It has LED light source with intensity to facilitate detection of a group of moving persons at 600 meters in idle conditions.



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Circuit-switch selector

- Wire is heavy duty
- Suitable control for ON/OFF and functions like flasher and dimmer.
- Two switches for selection of modes:
 - Continuous/direct light
 - Two positions of dimmer and flasher

Battery Charger & Indicator

- Suitable charger capable of operation from 100-240 V AC, 50Hz with a single-phase supply. The power cord is minimum 2.5 meters long.
- Full charging time is not more than 8 hours.
- LED indicator for battery status during operation and charging.
- Adequate protection shall be provided against short circuit, battery over charge and discharge and reverse polarity.
- It has auto cutoff to prevent overcharging of the battery after it is fully charged.
- It operates satisfactorily in the operating temperatures of -10°C to 50°C.

The HHSL is compact and water resistant (IPX4 rating) and is operable/functional in heavy rain.



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LED SEARCH LIGHT LED 2003



MODEL : LED 2003

General Specifications

- Weight: max. 1.5 Kgs
- Power 6V 4Ah rechargeable maintenance free dry battery.
- Brightness: Minimum 100 Lumen at 1 meter distance.
- Beam Angle 8°-10° (Max.) Light should focus to the center, i.e. without giving dark spot in the center.
- Bulb type: High power 3W LED
- Indicator in charger: charging ON & fully Charged.
- Running time of minimum 5 hours when fully charged,
- Beam Distance minimum 300 meters in ideal conditions.
- Casing:
 - Single piece unbreakable impact. Water & dust resistant, light weight plastic or rubber body.
 - Adjustable Shoulder Strap.



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HAND HELD SEARCH LIGHT DAZZLE 2003



FASTEST SELLING LIGHT

MODEL : DAZZLE 2003

Construction

Dazzle 2003 is made of Super Tough glass filled with Nylon material with minimum 2mm thickness and in one piece construction.

Technology

Microcontroller based HHSL.

Lamp

Suitable for 50W/55W halogen lamp.

Operating Range

Operating range is 1km (1000m).

Beam Distance

Beam distance is at-least 350 meters to detect group of persons.
Shock resistant front glass.

Battery Charger

SMPS inbuilt charger working from 90V to 270V, 50Hz.

Switches

Membrane switches with distinct color LEDs.



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Operations

- The full glow of the light can be varied by way of pressing the corresponding membrane switch in the up or down direction.
- Single System ON membrane switch is provided. The color of the system ON LED indicates the status of the battery (i.e. Green color for OK battery status, Yellow color for advanced low battery status, Red color for low battery status).
- Mode switch is provided to select timer, flasher continuous mode. The color of LED glow is corresponding to the mode return in the same color.
 - Red color is for Timer mode.
 - Yellow color is for the flasher mode.
 - Green color is for continuous mode.
- Charging status is indicated by tri color LED embedded in the panel.
 - Red LED will glow when battery is on normal charge,
 - amber LED will glow when battery is trickle charge and
 - blinking green LED will glow when battery is fully charged.
- Special dimming feature for Indoor uses.
- Emergency lighting effect for Indoor uses.
- Auto flashing feature with variable ON/OFF time.
- Special Dimming feature for indoor use with timer and continuous mode.

Indicators

Advance low battery status indication is also provided with long delayed audio beep. DC blown fuse indicator is provided on the panel.

Add-on Options

- Remote control to switch the light on/off from 100-150 meters distance.
- Tripod stand.



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HAND HELD SEARCH LIGHT DAZZLE 2005



MODEL : DAZZLE 2005

Casing

- HHSL body casing is tubular, heavy duty water resistant and one piece molded with integral handle of ABS. It is light, impact proof and corrosion proof.
- Max. weight including battery is 4.3 Kg.
- Length: 28cm (max)
- Front Diameter: 22cm.
- Rear Diameter: 19cm.

Construction

- Modular construction consists of replaceable modules for ease of servicing/repairs.
- The lamp is replaceable by unscrewing the front cover.
- The battery and blown fuses can be replaced without disturbing electronic circuit by unscrewing the front cover.
- Color of the casing is black
- Makers name is clearly printed on the body of the cabinet.
- Operational instructions in brief printed on the casing of the body.

Battery

Rechargeable sealer 12 V and 7Ah maintenance free battery.

Housing of Battery

There is adequate space around the battery for dissipation of heat developed while charging.

Lamp

12V, 55W high power halogen lamp.



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Circuit

- Wire is heavy duty.
- Electronic circuits are not sealed at any stage.
- Suitable control for ON/OFF and function like flasher, dimmer and timer.
- Single rotary selector for all the following modes:
 - Continuous/direct light
 - Preferably 2 positions for dimmer to extend battery life to 2 and 5 hrs. respectively.
 - Flasher to give 45 flashes (+/- 2 flashes) per minute.

Battery Charger and indicator

- In built battery charger input voltage 90 to 270 V, 50Hz.
- Charging time: 8-10 hours.
- LED indicators for battery status during operation and charging.
- Adequate protection is provided against short circuit, battery over charge, deep discharge and reverse polarity.
- When battery voltage drops to around 11V, advanced indication provided by LED and battery cut off at 10.5V (+/- .2V)

Operating Range & Beam Distance

Operating range is 1km (1000m). Beam distance is at-least 400 meters to detect group of persons. Shock resistant front glass.

Optional Accessory

Remote control

- The transmitter work on 9V battery
- TX dimension: 80 x 50 x 20 mm (+/- 5mm excluding the length of antenna)
- Range of min. 100 meters.

Wired Control

- Length of the cord: min. 100 meters
- Cord is spooled on a plastic or metallic reel having knob for spooling and mounted on a powder coated metal frame.
- IR filter: IR filter provided which can be attached or detached with ease.

Other Facilities

- Parabolic reflector mounted in the shock resistant cap of good quality rubber.
- Shoulder straps are adjustable, minimum 150 cm long 3 cm wide of good quality nylon and metallic part to connect the strip.



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HAND HELD SEARCH LIGHT DAZZLE 2010



CREATING A REVOLUTION IN SEARCH LIGHTS

MODEL : DAZZLE 2010

Length of the beam

It can detect group of persons in camouflaged dress at 500 meters when seen through a binocular on a clear night. The beam can be seen from 1Km.

Shoulder Strap

It has a provision for attaching a shoulder strap which can bear the weight of the HHSL (Hand held search light). The end to end length of the strap when adjusted to its maximum is 1.3meters.

Color

HHSL is provided in black color

Weight

The weight of HHSL including its battery and charger is approx. 3 Kgs.

Ruggedness

It is impact and water resistant. It has a suitable padding on the underside of the body to absorb shock and is functional in heavy rains.

Duration of Operation

HHSL can operate continuously for at least 170 minutes on a fully charged battery. Its glow does not reduce during the period of operation.



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Control Switches

The control switches are suitably placed for easy operation.

Visual Indications

There is a provision for giving visual indications for the following:

- Mode of operation in which HHSL is operating.
- Warning for low battery charge.
- Indication for charging in process.
- Indication for DC blown fuse.

Operating Temperature

It operates in a range of -20°C to +50°C.

Power Source

Lithium Ion battery

Battery Charger

Built-in SMPS charger. It can charge a fully discharged battery to full charge in 9 hours. It also has auto cutoff for disconnecting the battery from charger after its fully charged.

Light Source

High intensity discharge metal halide lamp of 35 watts that gives the white beam.

Body of HHSL

The body of HHSL is made of advanced engineered plastic. The entire body is molded as one piece with integrated carrying handle molded to the body.

Add-on Options

- Remote control to switch the light on/off from 100-150 meters' distance.
- Tripod stand.