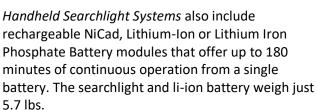
Maxa Beam Searchlights

Maxa Beam Searchlights are lightweight, compact, high intensity illuminators which use a field replaceable 75 Watt Xenon short arc lamp and a precision electroformed reflector to provide the ultimate source for long range and wide angle portable and remote-controllable illumination.

All Maxa Beam Searchlights Feature:

- 12,000,000 Peak Beam CandlePower Output
- Color rendition similar to daylight (6000°K)
- Motorized Beam Width Adjustment from 1° Spot to 40° Flood (1° to 25° in Weapon Lights)
- Strobe Function with Variable Rate and Duty Cycle (Strobe Sweep in Weapons Lights)
- Three Beam Intensity Levels (Two in Weapons Lights)
- Field-Programmable Operational Characteristics (startup beam width, strobe rate, etc.)
- Visible and Infrared Illumination Capability
- Flexible Mounting Options
- Remote Control of Beam Intensity, Beam Size, Strobe Function and Programming





Remote-Controlled Searchlights feature an optional RS-232 interface that allows the operator to control all functions of the searchlight from a computer. Remote-controlled searchlights are frequently integrated onto camera and sensor platforms for escalation of force applications.

The Maxa Beam Searchlight Product Line consists of four basic searchlight models:

- MBS-410 Handheld Searchlight with Remote Control Capability
- MBS-430-W Crew-Served Weapons Light (CSWL)
- MBS-430-Y Mounted Remote-Controlled Searchlight
- MBPKG-E Computer-Controlled Searchlight in Environmental Housing



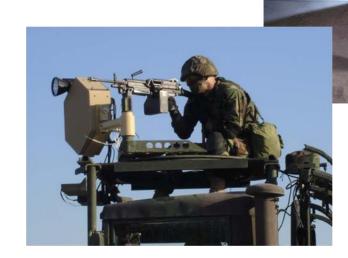
Applications:

For over 24 years users in locations ranging from the Sahara Desert to the AlCan Pipeline have

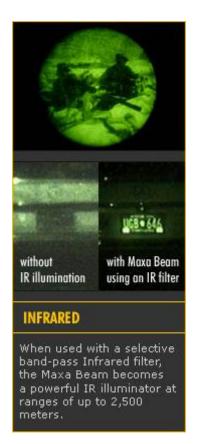
come to rely on the Maxa Beam Searchlight for:

- Force Protection
- Perimeter Security
- Search and Rescue
- Border Protection
- Tactical Operations
- Escalation of Force / Ocular Disruption
- Shipboard Protection / Maritime Security





- Night Vision Equipment Enhancement
- Crew-Served Weapon Illumination
- Infrared / Covert Surveillance











BEAM SEARCHLIGHT #MBPKG-A: RAPID DEPLOYMENT PACKAGE

The Maxa Beam Searchlight is a lightweight, high-intensity illumination system with an unparalleled output of 12,000,000 Peak Beam CandlePower. The Maxa Beam has a motorized beam width adjustment, meaning that the user can vary the beam from a 1° spot to a 40° flood with the hand that holds the light.

The Maxa Beam Rapid Deployment Package features the Lithium-Ion Battery with Built-in Charger. The Li-Ion weighs just 2.5 lbs., has a five-level LED fuel gauge, and can power the light on its default beam level for 110 minutes.

The Maxa Beam Searchlight is the most powerful and most effective handheld bright light available for search and rescue, surveillance, perimeter security, and non-lethal escalation of force operations. The Maxa Beam Searchlight has been battle-tested by the United States Armed Forces and numerous government agencies for over twenty years.



MBPKG-A Specification:

Performance

Output 12,000,000 CandlePower

Illumination Range 3500 Meters

Beam Levels Three: High, Normal (default) and Low Beam Width 1° Spot to 40° Flood (motorized) Strobe 1-31Hz, 3-63% User Programmable

Power

Lamp Xenon Short Arc

DC Power Searchlight Vehicle Adapter included; 12VDC
Battery Lithium-Ion Pack; recharges from 11-29VDC and/or

100-240 VAC (both adapters included)

Size Searchlight: 11.5 in. Long x 5.75" Diameter

3.2 lbs. (without battery), 5.7 lbs. (with battery)

Included in Kit Searchlight, Li-Ion Battery, AC/DC Adapters, Vehicle

Adapter, Shoulder Strap, and Storage Case



BEAM SEARCHLIGHT #MBPKG-B: BASIC PACKAGE WITH LIFePO₄ BATTERY

The Maxa Beam Searchlight is a lightweight, high-intensity illumination system with an unparalleled output of 12,000,000 Peak Beam CandlePower. The Maxa Beam has a motorized beam width adjustment, meaning that the user can vary the beam from a 1° spot to a 40° flood with the hand that holds the light.



The Maxa Beam Searchlight is the most powerful and most effective handheld bright light available for search and rescue, surveillance, perimeter security, and non-lethal escalation of force operations. The Maxa Beam Searchlight has been battle-tested by the United States Armed Forces and numerous government agencies for over twenty years.

MBPKG-B Specification:

Performance

Output 12,000,000 CandlePower

Illumination Range 3500m (visible/white light); 1400m (infrared)

Beam Levels Three: High, Normal (default) and Low

Beam Width 1° Spot to 40° Flood (motorized)

Beam Width 1° Spot to 40° Flood (motorized)
Strobe 1-31Hz, 3-63% User Programmable

Power

Lamp Xenon Short Arc

Battery Li-lon (LiFePO₄) Pack and 100-240VAC Charger

Searchlight: 11.5 in. Long x 5.75" Diameter

3.2 lbs. (without battery), 6.7 lbs. (with battery)

Included in Kit Searchlight, LiFePO₄ Battery, 100-240VAC Charger,

Battery Shoulder Strap

Notes Class 9 Hazardous Goods for Air Shipments Only

The MBPKG-B Basic Package is an economical entry-level system containing everything needed to operate the searchlight in a visible light situation, including a searchlight, LiFePO₄ battery, shoulder strap, and 100-240VAC battery charger.

Please note that this kit does not contain a storage case, DC charging option, or infrared filter, but these items can be added á la carte.



BEAM SEARCHLIGHT #MBPKG-B-DOD: BASIC PACKAGE FOR DEPT. OF DEFENSE

The Maxa Beam Searchlight is a lightweight, high-intensity illumination system with an unparalleled output of 12,000,000 Peak Beam CandlePower. The Maxa Beam has a motorized beam width adjustment, meaning that the user can vary the beam from a 1° spot to a 40° flood with the hand that holds the light.

The MBPKG-B-DOD Package is an economical entry-level system. It contains everything needed to operate the searchlight in a visible light situation, including a searchlight, Li-lon battery, shoulder strap, and 100-240VAC battery charging adapter. Please note that this kit does not contain a storage case, DC charging option, or infrared filter, but these items can be added à la carte.

The Maxa Beam Searchlight is the most powerful and most effective handheld bright light available for search and rescue, surveillance, perimeter security, and non-lethal escalation of force operations. The Maxa Beam Searchlight has been battle-tested by the United States Armed Forces and numerous government agencies for twenty-five years.

MBPKG-B-DOD Specification:

Performance

Output 12,000,000 CandlePower

Power

Lamp Xenon Short Arc

Battery Lithium-Ion Pack with 100-240VAC Charger

Size Searchlight: 11.5 in. Long x 5.75" Diameter

3.2 lbs. (without battery), 5.7 lbs. (with battery)

Included in Kit Searchlight, Li-Ion Battery, 100-240VAC Charging

Adapter, Battery Shoulder Strap

NSN 6230-01-392-8379





NON-LETHAL MARKET SEARCHLIGHT OPTIONS:



Portable/Handheld Searchlight Package - #MBPKG-NL

This package features a lightweight, portable Maxa Beam Searchlight with a rechargeable Lithium-Ion battery, 850nm infrared filter, collimating lens and waterproof storage case. The searchlight and battery together weigh 5.7 lbs. and the battery will run the searchlight on default beam power for 110 minutes.

Optional Upgrades:

Fluid Pan/Tilt Mounting Head (#MBA-3661) Wired Remote Control (#MBA-8406-MP)



Mounted Searchlight with Wired Remote Control - #MBS-430-Y

This searchlight is designed for mounted applications where the operator will be present but not necessarily holding the searchlight. All functions of the searchlight including beam width, strobe, and beam intensity are controlled using a compact remote control unit.

Optional Upgrades:

Mil. Spec. Metal Connectors (#MBS-430-MY)



Mounted Searchlight with RS-232 Computer Control - #MBS-430-RSY

This searchlight is designed to be mounted and remotely controlled with a computer. This searchlight is often integrated into remote-controlled surveillance, EOF and weapon systems.

Optional Upgrades:

Mil. Spec. Metal Connectors (#MBS-430-RSMY) Picatinny Rail Interface (#MBS-430-W-RS)



aluminum enclosure. The enclosure has a built-in cooling system for optimum searchlight performance in extreme temperatures and can be fix-mounted on a variety of platforms including ships and perimeter towers. The searchlight is controlled with a computer and is often employed with third-party Ethernet-to-serial servers, allowing multiple searchlights to be linked together on the same network.



Optional Upgrades:

Dual Connectors (#MBPKG-E2) 24VDC or 48VDC Input Voltage (#MBPKG-E-24/48) Direct Drive 100-240VAC Supply (#MBP-40005)

All Non-Lethal Maxa Beam Searchlights Feature:

- 12,000,000 Peak Beam CandlePower Output
- · Motorized, Remote-Controllable Beam Width Adjustment
- Focusable Long Range Illumination (3,500m Visible / 1,400m Infrared)
- · Field-Replaceable Xenon Short Arc Lamp
- · Strobe Function:
 - 1-31Hz, 3-63% User-Programmable Strobe
 - 8-15Hz Factory-Programmed "Sweep" Strobe (weapon lights only)
 - Random-Pattern Square Wave "Alpha" Strobe (U.S. Gov't only)

EAM SEARCHLIGHT:

Computer-Controlled Series #MBPKG-E

This 12,000,000 CandlePower Searchlight System is remotely controlled with a computer using RS232 protocol. The remote user can control the searchlight's beam intensity and motorized beam width as well as its effective and disabling variable rate non lethal strobe function. This lightweight system mounts easily to pan/tilt devices and an internal cooling system allows continuous use in all extreme weather conditions.

This searchlight system is innovative in that it offers a wide range of computer-controllable features in a high-output, relatively inexpensive, lightweight and compact unit. This system has been tested and implemented by the U.S. Border Patrol.

The system is also used in conjunction with Directed Acoustic Technology such as LRAD Corp.'s Long Range Acoustic Device, pictured below.







Specification:

Performance

Output

Illumination Range 3500m (Visible/White Light); 1400m (Infrared)

RS232 Protocol or Momentary Switches

12,000,000 CandlePower

Remote Control

Control Method Beam Width Strobe

1° Spot to 43° Flood (motorized)

1-31Hz, 3-63%; Remotely set Rate & Duty Cycle

Power

Lamp Wattage **DCPower ACPower**

85W, 45W cr 35W Derending on Selected Mode 12VEC; 24VDC & 48VEC Systems also available 100-240 VAC Power Supply Sold Separately

Dimensions

15.4 in. Long x 7.21" Diameter, 8.5 lbs.

BEAM SEARCHLIGHT: RECHARGEABLE BATTERY OPTIONS



Run Time (default)

Run Time (high)

Life Cycles

Capacity

Dimensions

Weight

Charge Time

Charger

Notes

#MBP-1207 Ni-Cad Battery

90 min.

45 min.

1,000

7 Ah

5 x 7.25 x 3.5 in.

5.5 lbs.

150 min.

MBP-5200-M (AC/DC)

NiCads can develop a memory if battery is recharged before cells are fully discharged. The MBP-5200-M charger includes a NiCad conditioning cycle to eliminate this issue. #MBP-1310 LiFePO, Battery

135 min.

90 min.

2,500

10 Ah

5 x 7.25 x 3.5 in.

3.5 lbs.

180 min. / 120 min.

MBP-3200 (AC/DC) / MBP-3205 (AC)

This battery features new Lithium-Iron Phosphate technology that allows extended run times and more life cycles. Due to the battery chemistry shipping options for this battery are limited. #MBP-1307 Lithium-Ion Battery with Built-In Charger

110 min.

60 min.

500

7 Ah

5 x 7.25 x 2.75 in.

2.5 lbs.

180 min.

MBP-5003 (AC) / MBP-5230 (DC)

This Lithium-lon Battery features a 5-level LED fuel gauge and a built-in charger. This battery requires an AC or DC adapter cord to connect it to power for recharging.





The Maxa Beam's beam width can be adjusted from a 1° Spot to a 40° Flood. The beam width is motorized, meaning that the operator simply pushes a joystick button forward (spot) or back (flood) with the hand that holds the light. This leaves the other hand free to hold a weapon or communciation device.

The table below shows how the beam width affects the size of the Field of Illumination:

Beam Width (angle)	Distance (meters)	Beam Diameter (meters)
1°	100	1.75
1°	1000	17.46
1°	3500	61.09
10°	100	17.63
10°	1000	176.33
20°	100	36.40
20°	500	181.99
40°	100	83.91
40°	500	419.55

To calculate the beam diameter at a distance: DIAMETER = (TAN(0.5*ANGLE)*2)*DISTANCE