

MBPKG-SK Maxa Beam Handheld Searchlight

rev. 09/24



MBPKG-SK Maxa Beam Starter Kit

An entry-level military and law enforcement system with a 12,000,000 CandlePower Maxa Beam Searchlight, one LiFePO4 battery, and an 850nm infrared filter.

Key Features

- 12,000,000 Peak Beam CandlePower Output
- 6.9 km Range (ANSI/NEMA FL1)
- 85 Watt Xenon Short Arc Lamp
- Infrared Illumination Capability
- Motorized Beam Width Adjustment
- Strobe Mode
- Battery Fuel Gauge Upgrade Available *(details on page 3)*



Typical Applications

- Long Range Illumination (visible/infrared)
- Border Security
- Maritime and Harbor Security
- Surveillance (visible/infrared)
- Shipboard Protection

Maxa Beam Searchlight End-Users Include

- U.S. Armed Forces (all branches)
- U.S. Border Patrol
- U.S. Department of Energy
- U.S. Secret Service
- Federal Law Enforcement (FBI, U.S. Marshals)

PERFORMANCE

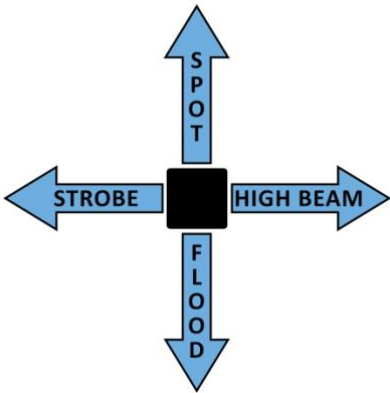
Output	12,000,000 Peak Beam CandlePower (-10% minimum threshold; no maximum threshold)
Range	0.25 lux @ 6,925meters 1 lux @ 3,500 meters 12 lux @ 1,000 meters <i>Visible ranges per ANSI/NEMA FL1: Flashlight Basic Performance Standard</i>
Lamp	85 Watt Xenon Short Arc, Instant hot/cold start and restrike

USER CONTROLS

Beam Width	Motorized Adjustment from 1° Spot to 40° Flood
Beam Intensity	3 Levels; Optional Low Beam is User-Programmable
Disorienting Strobe Function	Default Frequency of 10Hz and Duty Cycle of 38%. User-Adjustable Frequency from 1-31Hz User-Adjustable Duty cycle from 3-63%
Controllable Functions	On/Off, Beam Intensity, Beam Width, Strobe
Customizable Settings	Start-Up Beam Mode and Beam Width Spot and Flood Limits Strobe Frequency and Duration Continuous (Latched) High and Strobe

Consult the Operation Manual for complete programming and control options.

Default 4-Way Switch Functions

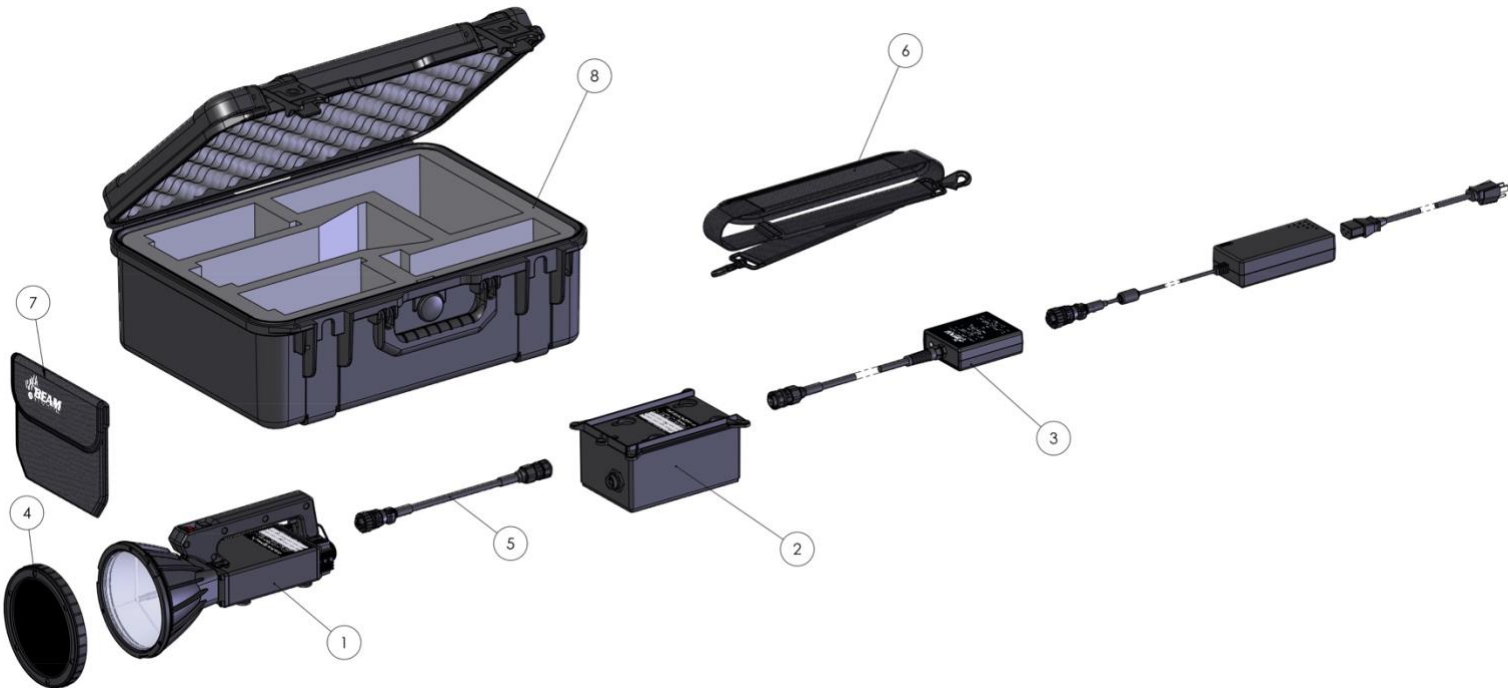


MBPKG-SK Maxa Beam Handheld Searchlight

rev. 09/24



PACKAGE CONTENTS



ID	Part Number	Description	Qty.
1	MBS-410	12,000,000 CandlePower Maxa Beam Searchlight	1
2	MBP-1308	Lithium Iron Phosphate (LiFePO4) Battery	1
3	MBP-3200-A	Smart Charger, 100-240VAC	1
4	MBA-1850	850nm Infrared Filter	1
5	MBA-8208-L	8 Inch Straight Power Cord	1
6	MBA-6005	Battery Shoulder Strap	1
7	MBA-6100	Padded Filter Pouch	1
8	MBA-6200	Tactical Storage Case with Die-Cut Foam	1

ENVIRONMENTAL

Ingress Protection	IP65 per CEI/IEC 60529:2001
Operating Temperature	-15°C to +60°C Reduced Battery Run Time Below 0°C
Housing	Polyester Powder-Coated Aluminum with Corrosion-Resistant Conversion Coating and Impact-Resistant PC/ABS

MAINTENANCE

Lamp	Field Replaceable Xenon Short Arc Lamp (Kit # MBA-2400 Sold Separately)
MTBF	1500 hours (Lamp); Maintenance/Replacement Recommended at 1000 hours
Warranty	90 days (Lamp and Battery); 1 year (All Other Components)

MBPKG-SK Maxa Beam Handheld Searchlight

rev. 09/24



POWER

Battery Type	Lithium Iron Phosphate (LiFePO4) 1 Battery Included
Battery Capacity	7.5 Amp-hours (7500mAh) 96 Watt-hours (Wh)
Battery Charge Cycles	2500
Battery Run Times	

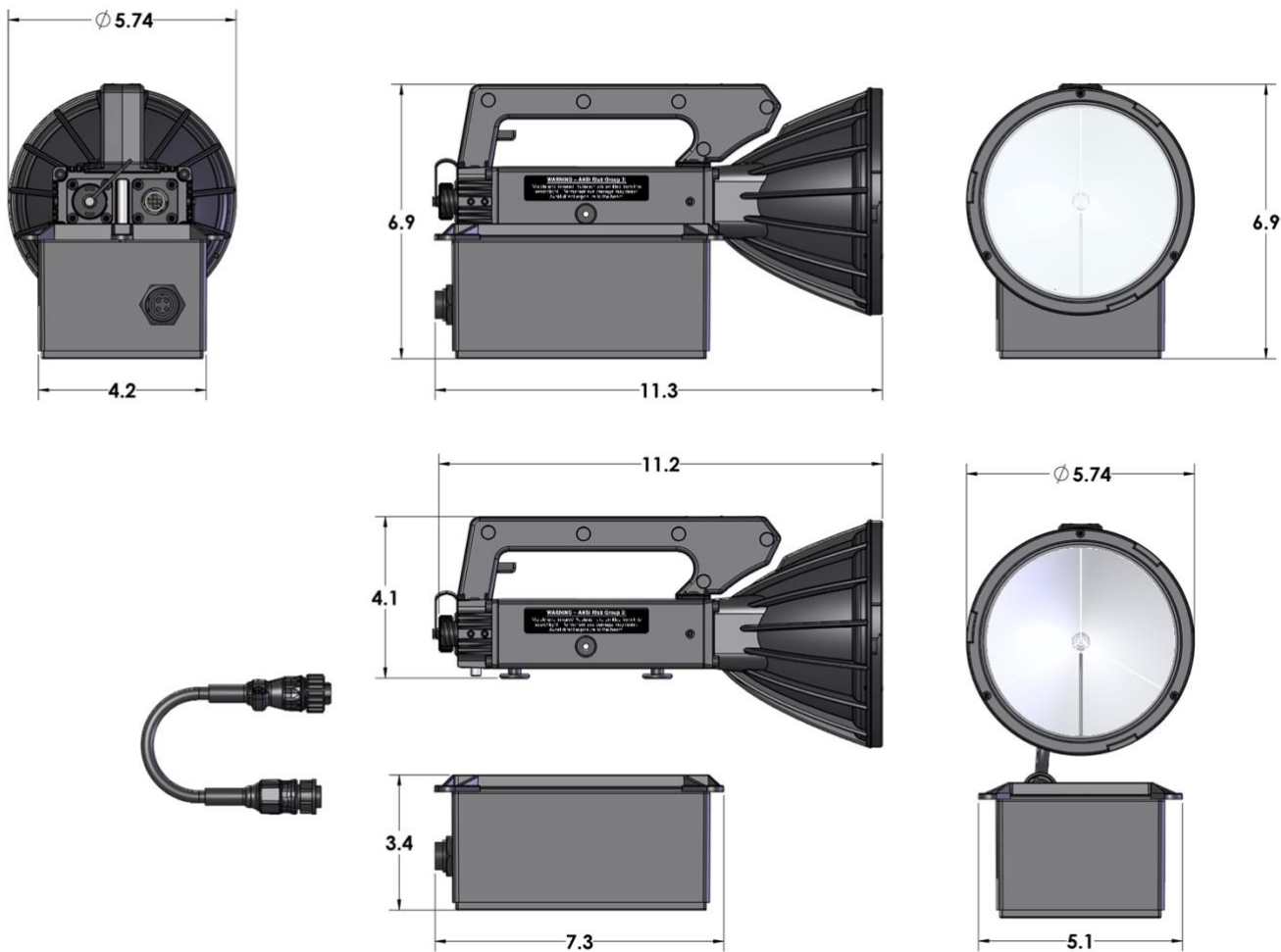
Beam Mode	Run Time
Continuous Regular Beam Mode	115 minutes
Continuous High Beam Mode	75 minutes

Battery Charging	
Input Type	Charge Time
100-240VAC	100 minutes

Optional: Upgrade this Package to substitute in the **MBP-1308-FG LiFePO4 Battery with 5-Level LED Fuel Gauge**. Gauge displays battery state of charge and state of health.
To upgrade, add (FG) to end of package part number.

11-32VDC Vehicle Charging Adapter # MBP-5230 Sold Separately.
Battery Safety Data Sheet (SDS) is available upon request.

PHYSICAL CHARACTERISTICS



Searchlight Weight	3.2 lbs.
Battery Weight	3.0 lbs.
Operational Weight	6.5 lbs.; includes Searchlight, Battery and 8 Inch Cord

Dimensions are in inches.

MBPKG-SK Maxa Beam Handheld Searchlight

rev. 09/24



SAFETY WARNINGS

ANSI Risk Group 3. Warning.

Visible and infrared radiation emitted from this searchlight.

Permanent eye damage can result. Avoid direct exposure to the beam.

Do not look directly into the searchlight beam. Exposure of the eye to either the direct searchlight beam or a beam reflected from a flat mirror-like surface can cause permanent eye injury to the unprotected eye. Follow the same precaution even when an Infrared Filter is installed on the searchlight.

Nominal Ocular Hazard Distance (NOHD), Visible Light: 10 meters
NOHD, Infrared Light: 30 meters for exposures greater than 10 seconds

- Do not operate searchlight if the front lens is damaged or removed. Ultraviolet injury to skin and cornea can occur if the searchlight is operated with a damaged front lens or if the lens is removed.
- Do not allow the concentrated beam of light to be focused on flammable materials at close distances for prolonged periods of time.
- Do not operate light in an explosive environment.
- Do not touch lamp connections during operation as high voltage is present.
- Do not touch the quartz envelope of the lamp. If the lamp is accidentally touched, clean with rubbing alcohol and allow it to dry completely before operating the searchlight.
- Always wear protective eyewear, long sleeves, and gloves if removing the front lens cover. The lamp is under positive pressure and should be handled with care.
- Always disconnect searchlight from battery when not in use, when placed in storage or when being transported to prevent accidental activation.
- Never charge a battery that is cooled below 0°C (32°F). Allow battery to return to room temperature before connecting it to charger.
- Do not expose battery to fire or open flame. Do not puncture, deform, incinerate or heat battery above 85°C (185°F).
- Do not open or disassemble battery. Batteries are sealed in a waterproof case with no user-serviceable components. Do not attempt to use a battery that has a damaged case; please contact the factory about our re-casing service.
- Do not dispose of battery in fire. Disposal must be conducted in accordance with applicable local, state, or national regulations. Batteries contain recyclable materials; recycling is encouraged over disposal.
- If storing battery for long periods of time, store battery at 75% charge level and recharge once every six months. Do not store batteries above 60°C (140°F) or below -20°C (-4°F). Store in a cool, dry location not subject to frequent temperature fluctuations.

REVISION HISTORY

5/2/2014	Maxa Beam Starter Kit released.
7/10/2015	Battery updated from MBP-1307 Li-Ion to MBP-1308 LiFePO4 Battery Technology; MBA-6005 Shoulder Strap and MBA-6100 Filter Pouch added.
5/2016	Searchlight continuous high beam function added (G3-26).
5/8/2018	Battery Fuel Gauge upgrade option released (FG).
3/1/2020	Charger updated from MBP-3205 to MBP-3200-A. Storage Case updated from MBA-6250 to MBA-6200.
1/1/2023	New reflector coating with improved visible and infrared reflectivity released (G3-26A).
9/1/2024	Searchlight programmable settings updated, including power-up on high beam option (G3-34).



PEAK BEAM SYSTEMS, INC.
3938 Miller Rd., Newtown Square, PA 19073
1-610-353-8505 (ph) | 1-610-353-8411 (fax)
sales@peakbeam.com | www.peakbeam.com

