

**MAG-TAC® LED
Rechargeable Flashlight
System**

- High capacity Lithium Iron Phosphate (LiFePO4) rechargeable battery engineered for long service life.
- LED produces extremely bright far-reaching beam.
- 4 Functions With "Quick Click" Access Momentary / Full Power / Power Save / Strobe
- Highly polished reflector delivers superior optical performance.
- Precision machined high-strength aluminum case is hard anodized inside and out for improved corrosion resistance and durability.
- Individually serial numbered for identification.
- Limited Lifetime Warranty (detailed terms of warranty, and owner's manual, enclosed).
- USB powered mountable charging base.

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www.maglite.com

The MAG-TAC® Rechargeable flashlight is covered by U.S. Patent Nos. 7,125,140; 7,566,149; and 8,482,209. Other patents pending. The charging cradle is covered by U.S. Patent No. D526,959. The LED module is covered by U.S. Patent No. D625,847.

Flashlight designed and manufactured in U.S.A.; flashlight includes some imported components; battery pack made in China; charging cradle assembled in U.S.A. of U.S. and imported parts: 12 volt power cord assembled in U.S.A. of imported parts; 120 volt A/C converter made in China. The distinctive shapes, styles and overall appearances of all Mag® flashlights, and the circumferential inscriptions extending around the heads of all Mag® flashlights are trademarks of Mag Instrument, Inc. The circumferential inscription on the head of every flashlight signifies that it is an original Mag® flashlight and part of the Mag® family of flashlights. U.S. Trademark Registrations for the shape, style and overall appearance trademarks of Mag® flashlights and for circumferential inscription trademarks of Mag® flashlights include Nos. 1,808,998; 2,074,795; 2,687,693; 2,745,460; 2,765,978 and 2,765,979. The pair of bands encircling the barrel of the MAG-TAC® Rechargeable flashlight is a trademark of Mag Instrument, Inc.



Model Number:
XXXXXXX

Part Number:
XXX-000-XXX

421-000-XXXX 7/14



MAG-TAC® LED

THE PROFESSIONAL FLASHLIGHT®

Rechargeable System
Système Rechargeable
Sistema Recargable



For Your Safety Please Read

Read all safety instructions in this manual before attempting to use the MAG-TAC® LED Rechargeable Flashlight System. Keep this manual for future reference. It contains important information about maintenance and safe operation of the product.

SAFETY INSTRUCTIONS:

The safety instructions in this manual have been classified according to the seriousness of the risk, as follows:

⚠ DANGER:

“Danger” indicates the existence of a hazard that could result in death or catastrophic bodily injury, if the safety instruction is not observed.

⚠ WARNING:

“Warning” indicates the existence of a hazard that could result in serious bodily injury, if the safety instruction is not observed.

⚠ CAUTION:

“Caution” indicates the existence of a hazard that could result in minor bodily injury or property damage, if the safety instruction is not observed.

⚠ NOTICE:

“Notice” contains general information that relates to the safe operation of the flashlight system.

⚠ DANGER:

- To avoid risk of damage to eyesight, never look directly into the beam when the light is on, nor shine it directly into another person's eyes.

- Any battery may rupture or explode if put in a fire or otherwise exposed to excessive heat. To avoid risk of injury, do not expose batteries to fire or excessive heat.

- Never short-circuit a battery pack by bringing the terminals in contact with a metal object. Explosion, burns, other bodily injury or fire could result.

- Never try to disassemble or repair the AC adapter or charging cradle. Electric shock may result. Contact a Mag Authorized Warranty Service Center for repairs.

- Never alter the plug on your AC adapter or charging cradle. If the plug will not fit into the available outlet, have a proper outlet installed by a qualified electrician. Trying to plug into an improper outlet can result in electric shock.

⚠ WARNING:

- Any battery may leak harmful chemicals which may damage skin, clothing, or the inside of the flashlight. To avoid risk of injury, do not let any material leaked from a battery come in contact with eyes or skin.

- Never heat and never attempt to disassemble the battery pack, as that could cause leakage of caustic electrolyte. In the event of skin contact, wash the affected area immediately and obtain prompt medical attention.

- Never allow liquids to spill on the AC adapter or charging cradle and do not charge outdoors, as the unit is not waterproof. Exposure to rain or other liquid could result in fire or electric shock.

⚠ CAUTION:

- Never store or transport flammable liquids, gases or explosive materials in the same compartment as the flashlight or its accessories, as possible sparking in the equipment could ignite a fire or explosion.

- Always secure this flashlight in its charging cradle when not in use. Never place the flashlight on the passenger seat or anyplace else in the car where it can become a projectile during a collision or sudden stop.

- Never expose the terminals of the battery pack to any metal object. When transporting a battery pack outside the flashlight, wrap it or place it in a plastic bag, or put insulating tape over the terminals.

- Do not charge or operate the flashlight near flammable materials.

- Do not charge battery in gas-tight enclosures as hydrogen gas is emitted under certain conditions and can explode if concentrated and confined.

- Do not operate flashlight with the face cap off and the LED on and exposed. Personal injury or damage to heat sensitive materials may result, e.g. plastics, rubber, cloth fabrics, etc.

⚠ NOTICE:

To reduce the risk of harm to your flashlight:

- Locate power cord away from foot traffic, heavy objects and other causes of abrasion or stress.

- Never pull on the power cord when unplugging the AC adapter. Grasp the plug directly to avoid damaging the cord.

- Between uses, disconnect AC adapter or charging cradle from power source.

- Do not use non-rechargeable batteries in your Rechargeable Flashlight System.

- Use only a MAG® rechargeable battery pack (Model No. ARXX235) or its technical equivalent.

- Always install the battery pack with the negative (-) end facing the head end of the flashlight and the positive (+) end facing the tailcap end.

- For prolonged storage, remove battery pack and store apart from flashlight.

- Carefully follow steps listed under “Inspection and Maintenance” in this manual.

- Never try to disassemble the flashlight, its components or accessories. For service, return the unit to a Mag Authorized Warranty Service Center.

- Always use genuine MAG-TAC® replacement parts and accessories. Never connect the flashlight to any auxiliary product that has not been approved by Mag Instrument, Inc. Use of an unauthorized accessory that is not the technical equivalent of an authorized accessory may damage the product and void your warranty, and could possibly result in fire, electric shock or other bodily injury.

- Exposure of the flashlight and accessories to excessively high temperatures above 122°F (50°C) can heat-damage plastic parts, electronic components and the battery.

- Never store this flashlight in temperatures below -4°F (-20°C). Doing so may damage the flashlight's electronic components.

- System 1, 3, and 6: The AC Adapter requires the use of a standard 120 V AC power source for its operation. Or, 12 V DC with the optional Cigarette Lighter Adapter.

- System 4, and 5: The AC Adapter requires the use of a standard 230 V AC power source for its operation. Or, 12 V DC with the optional Cigarette Lighter Adapter.

- Discontinue use immediately if you notice changes in the battery such as discoloration or malformation.

- Recharge the Battery at temperatures: 32°F to 140°F (0°C to 60°C) to avoid hazardous gas venting from the battery cells and potentially reduced battery capacity.

- Never use an AC adapter or charging cradle with a damaged or worn power cord or plug. This could result in electric shock, burns or fire. Contact a Mag authorized warranty service center to obtain a replacement.

- Unplug the AC adapter or charging cradle from the power source before attempting any cleaning in order to avoid the risk of electric shock.

PROTECTION OF CHILDREN

- This product is not designed, intended or recommended for children.

- Never allow children to play with, or otherwise handle or operate, the flashlight, its battery or charging apparatus, as injury to themselves or others could result.

- Keep all accessories and components out of the reach of small children. Small parts, in particular, might present a choking hazard to children.

BATTERY DISPOSAL

- Cover the metal terminals with insulating tape before disposal, to prevent accidental short-circuiting.

- Never dispose of a battery pack by throwing it into a fire. Battery explosion could result.

- Never discard a used battery pack with ordinary solid wastes, since it contains toxic substances.

- Always dispose of a used battery pack in accordance with prevailing Community regulations relating to the disposal of household toxic wastes.

- The sealed battery stick contains lithium iron phosphate and must be recycled or disposed of properly. Contact your local county solid waste authority for proper recycling or disposal information.

- Mag Instrument, Inc. is a proud participant in the RBRC (Rechargeable Battery Recycling Corporation). By recycling LiFePO4 rechargeable batteries, you are helping to keep LiFePO4 batteries out of the solid waste stream. When you throw away a LiFePO4 battery, it eventually ends up in a landfill or municipal incinerator. By recycling your used LiFePO4 batteries through Mag Instrument's Battery Recycling Program, you are helping to create a cleaner and safer environment for generations to come. For more information about the RBRC visit www.rbrc.com



 www.maglite.com



Rechargeable System
Système Rechargeable
Sistema Recargable

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Mag Instrument is a Founding Partner
of the National Law Enforcement Officers Memorial
Fund and The National Law Enforcement Museum.
Learn more about The Campaign for the
National Law Enforcement Museum at www.maglite.com



Getting Started

Congratulations

You have just made an investment in one of the most highly-advanced precision instruments in illumination technology.

The MAG-TAC® LED Rechargeable Flashlight System was formulated on precision and quality. Derived from many years of experience in the precise world of fine machine tools, our flashlights quickly became recognized for form and function and most importantly to you, the consumer, for quality and dependability.

Taking a few moments to read this manual and familiarizing yourself with the MAG-TAC® LED Rechargeable Flashlight System will help to insure years of superior service and satisfaction.

Consult the accompanying chart and obtain the model number from your package to see which of the following 8 items your package contains:

- | | |
|-----------------------------|------------------------|
| 1. Flashlight | 6. 240V Adapter (AUS) |
| 2. Charging Base | 7. 240V Adapter (UK) |
| 3. USB Cable | 8. 230V Adapter (Euro) |
| 4. 120V Adapter (US) | 9. Clip |
| 5. 12V Adapter (Automobile) | |



Section 1 *Unpacking and Setup*

1. Remove light from package.
2. Unscrew tailcap.
3. Remove battery insulator (round disc) located at rear of battery. Insulator should fall out of barrel when light is tilted head up.
4. Install pocket clip onto barrel from the tailcap end (push round part of clip all the way forward until it stops on knurl). Insert cam lock tool into cam lock and rotate clockwise approximately ¼ to ½ turn, to lock pocket clip on barrel.
5. Screw tailcap back onto barrel.
6. Remove charging cradle, USB cable and wall adapter from package.
7. Connect cable to charging cradle, wall adapter or cigarette adapter. Then plug into appropriate power source.
8. Install assembled light into charging cradle and charge until fully charged (solid green LED indication on cradle).



Charging Base

There are provisions for mounting the cradle if desired. Any #10 or M3.9 screw with a low profile truss head, will go through the center of the charging cradle. Screw head must be no larger than an .484 in. or 12.3 mm.

And, head height must be no longer than .130 in. or 3.3 mm. Use appropriate threads for the type of material to which the cradle is mounted.

Mount vertically only on horizontal surface with open end up.



Total time to fully charge a dead battery is approx. 2.5 hours.

Before using your MAG-TAC®, place it in the charging cradle for at least one hour, or until the LED indicator shows solid GREEN.

Your MAG-TAC® charger is compatible with PC USB ports. NOTE however, charge times are slightly longer with a PC USB port than with the provided MAGLITE® adapters.

DO NOT use any charging cradle, wall adapter, or generic battery charger other than the ones provided with your MAGLITE®.

Make sure your light is Turned OFF (Mode 5) before inserting it into the charging cradle.

Fault : Charger output is below the minimum threshold for normal operation. Short circuit on charge terminals or component failure is detected.

Pre-Conditioning : Battery is dead. Cradle will charge battery at very low rate, it will then proceed to Fast Charge.

Fast Charge : Cradle will fast charge the battery up to approximately 80% capacity.

Top-Off : Battery is at 80% capacity, cradle will perform a slow charge until battery is 100% capacity.

Maintenance/Idle : Charge is complete. The cradle will maintain a FULL charge state. The flashlight is left in the cradle and as the battery voltage drops slightly over time, the cradle will switch between Top-off and an idle state.

MAG-TAC® LED RECHARGEABLE- CHARGING CRADLE FUNCTIONS		
LED Indicator	Charger Mode	Battery State
Blinking RED	Fault	FAULT
RED	Pre-Conditioning	DEAD
ORANGE	Fast-Charge	LOW
Blinking GREEN	Top-Off	PARTIAL CHARGE
GREEN	Maintenance	FULL CHARGE
GREEN	Idle	NO LIGHT

Battery removal and replacement
(only necessary when battery has reached the end of service life)

1. Use battery nut wrench to unscrew battery nut. Install wrench into Barrel (tailcap end) and twist until wrench locates into nut. Continue to turn wrench counterclockwise until nut is fully unscrewed.

Note: if wrench is unavailable the new battery has a hex on the negative end that can be used.

2. Remove battery from barrel.

3. Install new battery into the barrel with hex end first (negative end), toward the head end of the light.

4. Install battery nut into barrel and use wrench to tighten nut. (can also use old battery)

Note: use caution not to cross thread battery nut into barrel.

5. Screw tailcap back onto barrel.

Switch Operation

User input ‘clicks’ must be performed within 0.5 Seconds of each other.

If your MAG-TAC® appears to go dim immediately after turning it ON, it means your battery is almost dead. Charge it.

Rated Light Output is per ANSI specifications, with a fully charged battery.

Rated Run-Time is per ANSI specifications, with a fully charged battery, and with the light turned on and left on constant.

Notes:

DO NOT attempt to use any battery other than the one provided with your MAGLITE®.

Make sure your light is Turned OFF (Mode 5) before inserting it into the charging cradle.

When not in use, your MAG-TAC® Flashlight should be turned OFF and left in the charging cradle.

MAG-TAC® LED RECHARGEABLE - FUNCTIONS			
User Input	Mode	Output	Run-Time
1 CLICK (hold)	1-Momentary ON	HIGH-520 Lumens	2.5 Hours
2 CLICKS	2-Latch ON	HIGH-520 Lumens	2.5 Hours
3 CLICKS	3-Power Save	Low-100 Lumens	4.5 Hours
4 CLICKS	4-Strobe	STROBE-450 Lumens@12Hz	>4.5 Hours
5 CLICKS	5-OFF / Charge	OFF	N/A

If you have questions or need assistance, please call our warranty/repair facility at (800) 283-5562, in the U.S.A. only, or (909) 947-1006 outside the U.S.A.

Problem Cause/Correction

- Flashlight:**
Does not light
1. Tighten tail cap – make sure unplated area of barrel is clean. See fig. 1
- Battery charged?*
1. Check battery charge: Place flashlight in charging base. Make sure LED lights up with flashlight switch off. Charge for 15 minutes ... check for light. If it lights (even momentarily) charge it, if not, replace it (battery).
- Switch sticks*
1. Return flashlight to Mag Instrument (see warranty).
- Works intermittently*
1. Check for damage to battery casing.
2. Foreign particles inside barrel.
- Poor or no spot*
Recharger/Cradle:
LED indicator does not light when flashlight switch is in off position.
1. Damaged LED.
2. Tighten tail cap.
3. Check plug connection to converter.
3. Check plug to power source.



Fig. 1

- Flashlight**
- Tempered aluminum alloy external components
 - Finish: hard, type III, aircraft anodized (inside and out)
 - Length: 5.8" (147.32 mm)
 - Weight, with battery pack: 5.61 oz. (159 grams)
 - Head diameter: 1.05" (26.67 mm)
 - Barrel diameter: 1.05" (26.67 mm)
 - Permanently engraved serial number for registration and identification
- O-ring sealed / lip seals throughout
- 3.2 Volt (LiFePO4) Battery Pack
- Polycarbonate Lens
- Highly polished reflector delivers superior optical performance.
- Faceted knurl design
- Corrosion resistant metal springs throughout
- Charging Base**
- Accepts 5V USB DC (not for use with 24-volt systems)
 - Solid-state charging circuit
- Charge rate: 1.2A
- Multi-color LED charge indicator
- Converter**
- 120-240 volts AC 50/60Hz
 - Output 5V USB DC
 - Double insulated

Inspection and Maintenance

Battery Pack – See Warnings Section for more information. Periodically (approximately every month) remove the battery pack from the flashlight and visually inspect for signs of gas or chemical leakage. Indications of leakage are discoloration of the plastic sleeve or white fuzzy material near the top (positive button) of each cell. Another indication would be a bulging deformation of the bottom (negative flat end) of the cell can. If these signs are observed the battery pack should be removed from service to prevent chemical damage to the inside of the flashlight. **See One Year Battery Pack Warranty for more information concerning warranty coverage.**

Fully Charged Battery Storage – If you do not use your flashlight for long periods of time (four months or more) we suggest you remove the battery pack from the flashlight to prevent chemical damage (acid leaks).

Electrical Contacts – The bare (bright) metal surfaces between the tailcap and barrel must be cleaned periodically to ensure a good electrical contact. Also keep the tailcap spring clean.

O-ring Seals and Screw Threads – To keep seals from drying out and the threads operating smoothly, apply several drops of clean petroleum oil or jelly to these surfaces two or three times a year.

Anodized Exterior Finish – The protective finish on the flashlight is very durable; however, constant exposure to sunlight, water, chemicals, gases, etc., will dull, discolor and eventually destroy the protective finish. Care should be taken to avoid any harsh environment.

Limited Lifetime Flashlight System Warranty/ One Year Battery Pack Warranty

MAG INSTRUMENT, INC. ("Mag") warrants **to the original owner** that this MAG-TAC® LED RECHARGEABLE FLASHLIGHT SYSTEM (the "SYSTEM") **is free from defects in parts and workmanship.** As to the flashlight and other components of the SYSTEM, except the rechargeable NiMH battery supplied herewith, **this warranty lasts for the life of the original owner.** As to the NiMH battery, this warranty lasts for **one year** from date of purchase. Registration is not required for warranty coverage. Mag or an authorized Mag Warranty Service Center, for a handling fee of \$18.00 (which includes the cost of packing and shipping the product back to the owner), will repair the flashlight or other SYSTEM component or, at its option, replace a defective flashlight or other SYSTEM component free of charge. This warranty is in lieu of all other warranties and conditions, express or implied.

Exclusions: This warranty does not cover LED burnout and/or LED module failure or damage to or failure of the SYSTEM or any component thereof due to alteration, product misuse, lack of maintenance, or leakage of a NiMH battery more than one year after date of purchase. (Product misuse includes, but is not limited to, installing any non-rechargeable battery or any rechargeable battery pack other than a Mag® battery pack or its technical equivalent.)

Mag disclaims any responsibility for incidental or consequential damages. Some jurisdictions in Canada and the United States do not allow exclusion or limitation of implied warranties, incidental or consequential damages and/or limitations on transferability, so the above limitations and exclusions may not apply to you.

How and when to make a warranty claim: Before returning the flashlight or other SYSTEM component for service, be sure you have followed the steps outlined in the **Troubleshooting Guide** section of your MAG-TAC® LED RECHARGEABLE FLASHLIGHT SYSTEM Owner's Manual. If you have followed all of these steps and the flashlight or other SYSTEM component fails to operate properly, proceed as follows: 1. In case of NiMH rechargeable battery failure **more than one year after purchase date**, do not return the flashlight or other system component to Mag but replace NiMH battery. You can buy replacement NiMH batteries directly from Mag or from most retail outlets where Mag flashlights are sold. 2. For warranty returns: Send the flashlight or other SYSTEM component (postage or shipping prepaid) to Mag Instrument, 2001 South Hellman Avenue - 50600, Ontario, California, USA 91761-8019, Attention: Warranty/Repair Department, or to an authorized Mag Warranty Service Center. Include a check or money order for \$18.00 (which includes the cost of packing and shipping the product back to you). For the location of an authorized Mag Warranty Service Center in your area, consult the retailer where you purchased the flashlight. For your protection and to expedite handling and/or postal claims, we recommend that all returns be insured and sent Certified and/or Return Receipt Requested.

In Canada and the United States this warranty gives you specific legal rights, and you may have other rights which vary from state to state and from province to province. Where any term of this warranty is prohibited by the law of any jurisdiction, such term shall there be null and void, but the remainder of this warranty shall remain in full force and effect. **To register your new Mag® flashlight** visit our website at www.maglite.com. From our home page just go to "Register Your Flashlight."