Lupine Blika 2400 Lumen Headlamp & Helmet Light: Accessible User Manual

Lupine Lighting Systems GmbH (Neumarkt, Bavaria, Germany) | EU EAA (Directive 2019/882) & Germany BFSG (Active Enforcement) | Effective: Blika DE/EN Manual (Passively Audited Nov 2026)

WCAG 2.2 AA interactive HTML and Tagged PDF/UA-1 remediation of Lupine Lighting Systems' 19-page untagged DE/EN product manual.

Source document converted: 2022_blika_de_en_web.pdf (19 pages, untagged InDesign export)

Structural Remediation Summary (Before vs After)

PDF/UA-1 Check	Original Public PDF	Remediated Tagged PDF/ UA-1
Logical Tag Tree (/StructTreeRoot)	FAIL (Missing)	PASS (Full Semantic Tree)
Marked PDF Flag (/MarkInfo /Marked)	FAIL (Missing)	PASS (Marked: true)
Document Language (/Lang)	de-DE	PASS (en)
Document Title & DisplayDocTitle	FAIL (Incomplete)	PASS (Title + DisplayDocTitle)
Bookmarks (/Outlines)	FAIL (Missing)	PASS (Auto-Generated Outlines)

Optical & Battery Safety Warnings (Risk Group 2)

Risk Group 2 Optical Radiation Warning: Never intentionally shine the Blika light beam into your own eyes or another person's eyes. Do not stare into the operating LED emitter or inspect the beam through optical magnifiers. In commercial or public-sector operation, instruct users per applicable optical radiation safety regulations.

- Children aged 8+ and persons with reduced physical, sensory, or mental capabilities may operate the lamp only under supervision of a responsible safety supervisor.
- Do not operate multiple high-output lamps simultaneously to avoid cumulative retinal hazard.
- Heat buildup: The Blika housing becomes hot during use; keep adequate clearance from flammable materials. Full 2400 lm output requires cooling airflow; without airflow, thermal management reduces power automatically.
- Always carry a small backup emergency light when riding or mountaineering in darkness.
- Never open the Blika lamphead housing: opening breaks IP68 waterproofing seals and voids the 24-month warranty.

Initialization, Battery Voltage Blink Code & Lamphead Controls

Connecting the Blika lamphead to the 7.2V Li-Ion battery triggers an automatic self-test in which the main beam and RGB switch LEDs flash briefly. The switch then reports measured battery voltage under load via sequential flashes: the blue LED blinks once per whole volt, followed by the red LED blinking once per 0.1 volt (for example, 7 blue + 5 red = 7.5 V).

The lamphead features two physical buttons: the Top Button controls main beam power and brightness programs (first press starts at maximum power; short presses cycle dim steps; press and hold turns off), while the Lower Button controls special LEDs (Red light, Green light, Spotlight, and Diffuse light).

Battery Voltage Initialization & RGB Switch LED Status Meanings

Indicator State	Voltage / Meaning	Required Rider Action
Over 8.0 V (e.g. 8 blue flashes)	Battery fully charged	Ready for full-duration operation.

Indicator State	Voltage / Meaning	Required Rider Action
7.1 V to 7.8 V	Battery partially discharged	Recharge battery before long rides.
6.5 V to 7.0 V	Battery not ready for use	Charge immediately before starting.
Blue LED steady	High beam active (max power)	Normal high-output operation (ensure airflow).
Green LED steady	Dimmed beam level active	Normal reduced-power operation.
Red LED steady	1st Battery Warning (low capacity)	Plan return or switch to lower dim step.
Red LED flashing + 1x lamp flash	2nd Battery Warning (very low capacity)	Reduce speed and prepare for reserve power.
Red & Blue alternating + lamp flashes	Battery depleted - automatic shutoff imminent	Stop immediately. Restarting provides brief low-beam reserve power only (no reserve if run exclusively at <=2 W).

Dim Levels, Battery Runtimes & Button Programming Matrix

To reprogram the Blika light profile without an app, press and hold the Top Button until the switch LED flashes blue or red the target number of times, then release immediately to save. Lower-button special LEDs can be dimmed across 5 output steps (0.4 W to 3 W; red max 2.5 W) by holding the lower button until the desired brightness is reached.

Blika Main LED + Spotlight Output and Runtimes (3.5 Ah vs 6.9 Ah Battery)

Power Level	Lumen Output	Runtime (3.5 Ah Battery)	Runtime (6.9 Ah Battery)
26 W (Maximum)	2,400 lm	1 h 00 min	2 h 00 min
10 W (High)	1,200 lm	2 h 30 min	5 h 00 min
3 W (Mid)	250 lm	8 h 00 min	16 h 00 min
1.5 W (Low)	220 lm	16 h 00 min	32 h 00 min
1 W (Eco)	100 lm	25 h 00 min	50 h 00 min
0.4 W (Small LEDs)	Reading / Diffuse	62 h 00 min	124 h 00 min

Top Button Programming Flash Sequence (Hold Until Target Flash Count)

LED Flash Count	Program / Extra Setting	Behavior / Factory Default
1x Blue	2-Step Program	Cycles between 26 W and 2 W main outputs.
2x Blue	3-Step Program A	3-level progression (26 W / 10 W / 2 W).
3x Blue	3-Step Program B	3-level progression with extended low step.
4x Blue	4-Step Program	4-level progression (26 W / 10 W / 3 W / 2 W).

LED Flash Count	Program / Extra Setting	Behavior / Factory Default
5x Blue	3-Step + Eco Program	Includes ultra-low 1 W step for long endurance.
1x to 4x Red	Special LEDs (Red / Green / Spot / Diffuse)	Toggle individual lower-button channels on or off.
5x Red	Startup Power Level	Start on highest beam (Factory Default) vs lowest beam.
6x / 7x Red	Battery Warning Threshold	6x = Early battery warning (Default); 7x = Late warning.
8x Red	SOS Signal Mode	Alpine SOS vs standard SOS (Default).
9x / 10x Red	Double-Click & Stealth Modes	9x = Double-click protection; 10x = Stealth LED mode.
11x / 12x Red	Button Link & Autostart	11x = Independent vs coupled LEDs; 12x = Autostart after power cut (Default ON).
13x Red	Factory Reset	Restores all factory default light settings.

Helmet / Headband Mounting & SmartCore Battery Operation

The Blika helmet mount attaches tool-free through helmet ventilation slots via the supplied Velcro straps and FrontClick slide plate. FastClick batteries (Art. No. 884 2.0 Ah, 881 2.0 Ah SmartCore, 835 3.5 Ah, 842 3.5 Ah SmartCore) click directly into the headband or 3M plate with the cable oriented downward; HardCase batteries mount to frame tubes via anti-slip Velcro straps.

- SmartCore Capacity Check (1 click): Emits audible beeps in 20% steps for helmet/headband users plus 5 visual LEDs (each steady LED = 20%, blinking LED = 10%; e.g. 3 steady + 1 blinking = 70%).
- SmartCore Rear Taillight (2 clicks): Illuminates all 5 red LEDs continuously; press once more to switch off.
- SmartCore Running Light (3 clicks): Activates sequential chaser pattern; press once more to switch off.
- USB One Accessory (Art. No. 444): Converts 3.5 Ah / 6.9 Ah / 13.8 Ah Lupine batteries into a mobile power bank (3-4x, 6-8x, or 12-16x smartphone charges).

Wiesel Charger Safety, Storage & Troubleshooting

Plug the Wiesel charger into a 100-240V AC outlet and connect the battery. Charging starts automatically (red LED) and completes when the LED turns green (1h 50m for 3.5 Ah; 3h 40m for 6.9 Ah). For long-term storage, charge fully and keep in a cool, dry place (annual self-discharge is approximately 15%).

Lithium-Ion Charger Safety Warning: Use the included Wiesel charger exclusively for rechargeable 7.2V Li-Ion batteries. NEVER charge NiMH or non-rechargeable dry batteries (explosion hazard). Only the manufacturer may open the charger enclosure.

Blika Lamp and SmartCore Battery Troubleshooting Guide

Symptom	Probable Cause	Recommended Resolution
Lamp will not turn on and switch LEDs do not flash on connect	Deeply discharged battery or loose connector plug	Charge battery with Wiesel charger and check all plug contacts.
Main power LEDs do not light, but switch PCS LEDs flash	Faulty LED board or internal emitter fault	Do not open lamphead; contact Lupine Service (+49 9181 509490 / info@lupine.de).

Symptom	Probable Cause	Recommended Resolution
Runtime is noticeably shorter than rated spec	Battery partially charged, aged cells, extreme cold, or faulty charger	Fully charge battery, keep battery warm in sub-zero conditions, or replace aged battery/charger.
SmartCore indicator shows only 20% even after full charge	Capacity gauge calibration reset	Discharge battery completely using the lamp, then recharge fully to recalibrate.

Technical Specifications, Warranty & Manufacturer Contact

Lupine Blika Technical Data Sheet

Parameter	Specification
LED Emitters	Cree XM-L3; Cree XQ-E HI
Ingress Protection Class	IP68 (waterproof and dustproof)
Operating Temperature Range	−25 C to +70 C
Nominal Battery Packs	3.5 Ah / 7.2 V Li-Ion or 6.9 Ah / 7.2 V Li-Ion
Charging Time (Wiesel 1.9 A max)	1 h 50 min (3.5 Ah) / 3 h 40 min (6.9 Ah); Input 100-240 V AC, 50-60 Hz
System Weight (Helmet Light)	220 g (with 3.5 Ah battery) / 335 g (with 6.9 Ah battery)
System Weight (Headlamp)	250 g (with 3.5 Ah battery) / 370 g (with 6.9 Ah battery)
Warranty	24 months on lamp components against manufacturing defects (battery excluded; unauthorized modification voids warranty)
Manufacturer & EU Compliance	Lupine Lighting Systems GmbH, Im Zwiesel 9, 92318 Neumarkt, Germany | info@lupine.de | EC DoC: www.lupine.de/ce/

Technical Conformance Notice

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