

# Helmet Mounted Torch: Lamp XP-R1

Technical Datasheet



*The XP-R1 flashlight is MSA's latest external lighting solution combining high performance lighting beam and high visibility position light in a rechargeable, compact helmet mounted lamp design. Developed in collaboration with PELI, it provides an unmatched lighting experience in tough firefighting environments.*

## Features & Benefits

- High performance helmet mounted flashlight, with constant lighting operation
- ATEX / IECEx approval (zone 0) for safe use in hazardous environment
- Replaceable helmet interface plate for easy maintenance
- Position light (red) with rear and side visibility
- High mechanical and thermal resistance
- Hi-visibility yellow body with photoluminescent shroud

## Technical Specifications

|                                      | DESCRIPTION                                                                                                                                                                               |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>LIGHT OUTPUT MODES</b>            | Constant light output for 6 hours<br>Complete run time 8.5 hours minimum (ANSI FL1)<br>Reserve mode for safe evacuation when low battery<br>Flashing emergency mode to enhance visibility |
| <b>COLOR</b>                         | Hi-viz color with photoluminescent shroud                                                                                                                                                 |
| <b>OPERATION</b>                     | Rear switch, easy to operate with gloves                                                                                                                                                  |
| <b>POWER SUPPLY</b>                  | Rechargeable Li-ion battery, specific PELI design (Atex zone 0)                                                                                                                           |
| <b>LIGHT SOURCE (MAIN BEAM)</b>      | High Performance LED, 7100K – 8300K                                                                                                                                                       |
| <b>LIGHT SOURCE (POSITION LIGHT)</b> | Lateral Red LED                                                                                                                                                                           |
| <b>MATERIALS</b>                     | Lamp body: High visibility Polycarbonate blend<br>Lamp shroud: Photoluminescent, antistatic thermoplastic<br>Interface plate: High visibility Polycarbonate blend                         |

**WHEN YOU GO IN, WE GO IN WITH YOU.**

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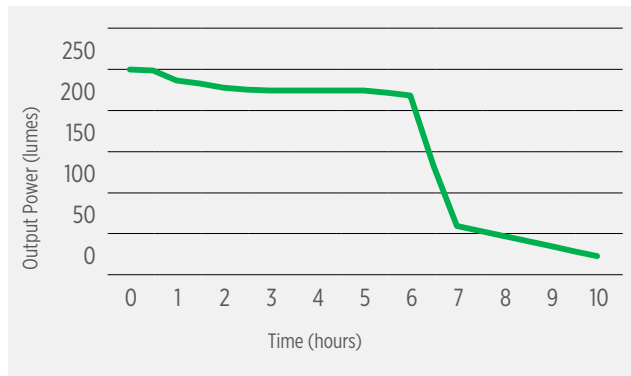


### Dimensions and Approvals

| CHARACTERISTICS   | DESCRIPTION                                                                                                                                        |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DIMENSIONS</b> | Length: 160 mm / Width: 42 mm                                                                                                                      |
| <b>WEIGHT</b>     | 180 g (including batteries)                                                                                                                        |
| <b>APPROVALS</b>  | Atex Zone 0 - Ex II 1 G Ex ia op is IIC T4 Ga                                                                                                      |
| <b>IP RATING</b>  | IP67 (30 mins under 1m of water)                                                                                                                   |
| <b>CHARGING</b>   | Charging time: approx. 6.5 hours<br>Note: To ensure the expected battery life, it is recommended to fully charge the battery at least once a year. |

### ANSI FL1 standard parameters

- Light output (lumens): measured in an integrated sphere, 30s after switching off the light
- Run time (h): continuous time elapsed until output power drops below 10% of the original value
- Beam distance (m): distance at which the light beam is 0.25 lux
- Peak beam intensity (candela): maximum luminous intensity along the central axis



The enclosed diagram is indicative. Performance (output power, burn time) may vary depending on temperature and battery service life. Measurements are made at an ambient temperature of 20°C.

### Performance Specifications

|                                        | DESCRIPTION                      |
|----------------------------------------|----------------------------------|
| <b>MAXIMUM LIGHT OUTPUT (ANSI FL1)</b> | 189 lumens                       |
| <b>CONSTANT LIGHT OUTPUT</b>           | 6 hours @170 lumens (± 5 lumens) |
| <b>RUN TIME (ANSI FL1)</b>             | 8.5 hours minimum                |
| <b>MAX BEAM DISTANCE (ANSI FL1)</b>    | 160 meters                       |
| <b>PEAK BEAM INTENSITY (ANSI FL1)</b>  | 6,000 Candela                    |

### Multi-charger Docking Station

| CHARACTERISTICS                      | DESCRIPTION                                                                                                                                                                                                                                                                                                                     |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MULTI-CHARGER DOCKING STATION</b> | Docking station compatible with individual chargers for L2XR Li-ion headlamp and XP-R1 Li-ion torch <ul style="list-style-type: none"><li>• Can accommodate up to 6 individual chargers</li><li>• Compatible fire truck and fire station</li><li>• Includes Docking station, with a two-pin European-style power plug</li></ul> |
| <b>INPUT</b>                         | 100-240V AC, 50/60Hz, 2.5A                                                                                                                                                                                                                                                                                                      |
| <b>OUTPUT</b>                        | 5.0V DC, 10.0A, 50.0W                                                                                                                                                                                                                                                                                                           |
| <b>POSSIBLE CONFIGURATIONS</b>       | <ul style="list-style-type: none"><li>• 100% Individual chargers for L2XR Li-ion head lamp (GA3735)</li><li>• 100% Individual chargers for XP-R1 Li-ion torch (GA1418)</li><li>• Mix of both GA3735 and GA1418</li></ul> <i>GA3735 and GA1418 are sold separately</i>                                                           |

### Ordering information

| PART NUMBER | DESCRIPTION                                               |
|-------------|-----------------------------------------------------------|
| GA1415      | Lamp XP-R1, LED, rechargeable (charger not included)      |
| GA1418      | Individual Charger, Micro USB, XP-R1 (USB cable included) |
| GA3747      | Multi-charger Docking Station                             |
| GA1419      | USB / AC Adaptor, with international AC plugs             |
| GA1416      | Helmet mounting interface plate, XP-R1                    |
| GA1417      | Replacement Battery pack, XP-R1                           |

Note: This Bulletin contains only a general description of the products shown. While product uses and performance capabilities are generally described, the products shall not, under any circumstances, be used by untrained or unqualified individuals. The products shall not be used until the product instructions/user manual, which contains detailed information concerning the proper use and care of the products, including any warnings or cautions, have been thoroughly read and understood. Specifications are subject to change without prior notice. MSA is a registered trademark of MSA Technology, LLC in the US, Europe, and other Countries. For all other trademarks visit <https://us.msasafety.com/Trademarks>.

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