

# LUNAR & Accessories

Data Sheet



## LUNAR Specifications

Technical Specifications	
<b>DIMENSIONS (MAX)</b>	204 x 91 x 77 mm
<b>WEIGHT</b>	
LUNAR (WITHOUT BATTERY)	660 g
BATTERY	168 g
<b>DISPLAY</b>	Full color
DIAGONAL	3.5" (89 mm)
<b>SCREEN RESOLUTION</b>	320 x 480
<b>THERMAL IMAGE RESOLUTION</b>	206 x 156 (32,136 pixels)
<b>FIELD OF VIEW</b>	35 +/- 5 degrees horizontal 25 +/- 5 degrees vertical
<b>NET EQUIVALENT TEMPERATURE DIFFERENCE</b>	65mK (0.065°C) typical
<b>TEMPERATURE MEASUREMENT</b>	+/- 10°C with target temp 0-100°C +/- 10% with target temp 100°C-500°C
<b>ENVIRONMENTAL AMBIENT TEMPERATURE AND OPERATING TIME</b>	160°C (320°F) > 22 minutes 260°C (500°F) > 8 minutes
<b>MAX TEMPERATURE READING</b>	999°C
<b>DYNAMIC RANGE</b>	-40° to 330°C
<b>THERMAL IMAGE FRAME RATE</b>	16 Hz
<b>THERMAL IMAGE PALETTES</b>	>10 available
<b>WIDE AREA CONNECTIVITY</b>	Cellular (LTE-M)
<b>LOCAL AREA CONNECTIVITY</b>	LUNAR Local Alarm Network (self-contained) Bluetooth 5.1 Connectivity

Technical Specifications	
<b>DEGREE OF PROTECTION/ INGRESS PROTECTION</b>	IP67
<b>CERTIFICATIONS</b>	<i>UL Approval Type:</i> Gas Class I, Gas Groups C, D, Division 2 – T3 <i>CSA Approval Type:</i> Gas Class I, Gas Groups C, D, Division 2 – T3 <i>Intrinsically Safe/Nonincendive Equipment:</i> Class 1 Div 2 RED 2014/53/EU

Search & Rescue Technical Specifications	
<b>*F.A.S.T. TECHNOLOGY DISTANCE</b>	
ETSI/EN REGIONS	0.5 kilometers LoS
<b>TRANSMISSION POWER</b>	
ETSI/EN REGIONS	10 dBm / 10 mW
<b>DIRECTION INDICATION</b>	Circular polarized directional antenna
<b>FREQUENCY</b>	2.4 GHz
<b>*LUNAR LOCAL ALARM NETWORK</b>	Enables an independent ad hoc network keeping consistent connection between all networked LUNARs in range.

\* Technology provided by Metirionic GmbH


Connectivity	
<b>LTE-M **</b>	Creates a direct LUNAR-to-cloud connection enabling local monitoring, remote monitoring, and data retention.
<b>BLUETOOTH 5.1</b>	Allows for two connections to other Bluetooth-enabled devices such as the G1 SCBA and ALTAIR® Gas Detection.

\*\* Please check with local MSA team for availability


WHEN YOU GO IN, WE GO IN WITH YOU.

## Battery & Charger Specifications


Battery Specifications	
<b>BATTERY TYPE</b>	Rechargeable lithium-ion battery pack
<b>RUN TIME</b>	8 hours <i>(normal use)</i>
<b>CHARGE TIME</b>	3 hours <i>(for depleted)</i>
<b>CHARGE CYCLES</b>	1000 charge cycles <i>(The battery will be at approximately 80% capacity)</i>




Single-Point Battery Charger Specification	
<b>FUNCTIONALITY</b>	Stand-alone battery charger will charge 1 battery <i>(installed or removed from the device)</i>
<b>POWER SUPPLY</b>	100 VAC to 240 VAC
<b>LED INDICATORS</b>	Red for charging, green for complete



Multi-Bay Battery Charger Functionality	
<b>FUNCTIONALITY</b>	Stand-alone battery charger will charge 6 batteries simultaneously <i>(can recharge M1 Control Module batteries as well)</i>
<b>POWER SUPPLY</b>	100 VAC to 240 VAC
<b>LED INDICATORS</b>	Red for charging, green for complete



Attachments	
<b>SWIVEL QUICK DISCONNECT</b>	Secures LUNAR to an SCBA or other equipment
<b>TETHER</b>	Optional retractor for securing the LUNAR to an M1 SCBA



## Part Numbers

LUNAR	
10214748	LUNAR, EU
10214749	LUNAR, UK

ACCESSORIES	
10214756	Battery, Single Pack
10203941	Retractor Assembly, LUNAR
10214762	Rubber Boot Replacement
10214763	Swivel Quick Disconnect

CHARGING OPTIONS	
10214759	Single-Point Charger, EU
10214760	Single-Point Charger, UK
10214753	Multi-Bay Charger, EU
10214754	Multi-Bay Charger, UK

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 operates in over 40 countries worldwide. To find an MSA office near you, please visit [MSAafety.com/offices](https://www.MSAafety.com/offices).