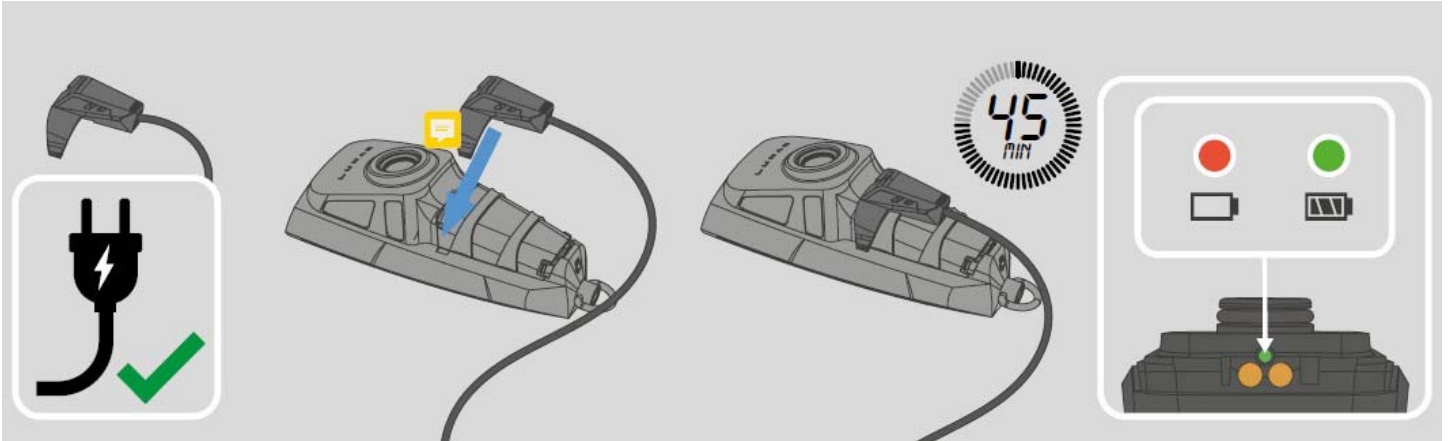




NOTE: If LUNAR is powered on and the Single Point Charger is plugged into an outlet, the device may take a longer time to charge than when the device is powered off.

The battery can also be removed from LUNAR and inserted into the Single Point Charger to charge.



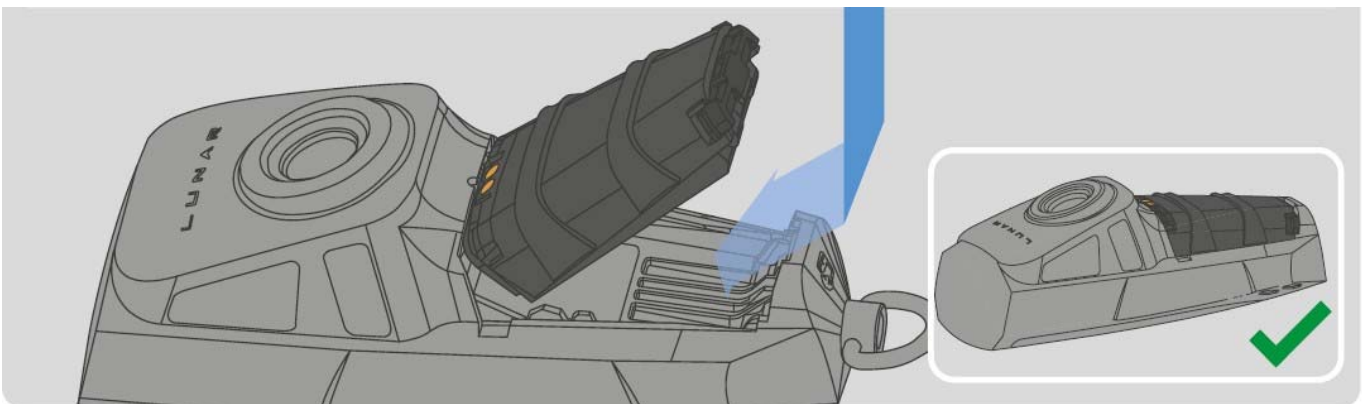
SHOW IMAGE label facing down with gold circles and red/green above

(2) Using the Universal Multi-Bay Charger

LINK to QSG

4.1.4 Installing and Removing the Battery

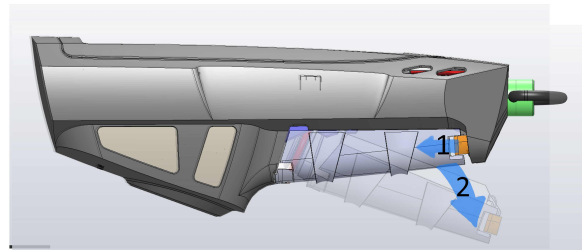
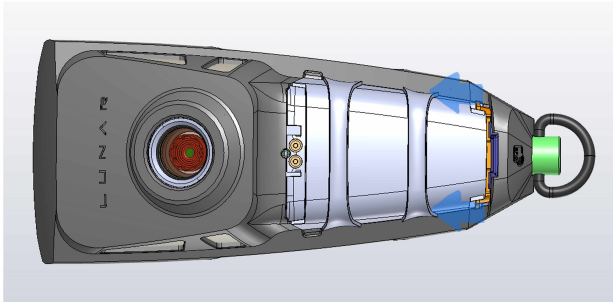
Installing the Battery



⚠ CAUTION!

LUNAR device and battery must be clean and dry prior to installation of the battery, or corrosion or connector damage may occur.

Failure to follow this caution can result in minor or moderate injury.

Removing the Battery**⚠ CAUTION!**

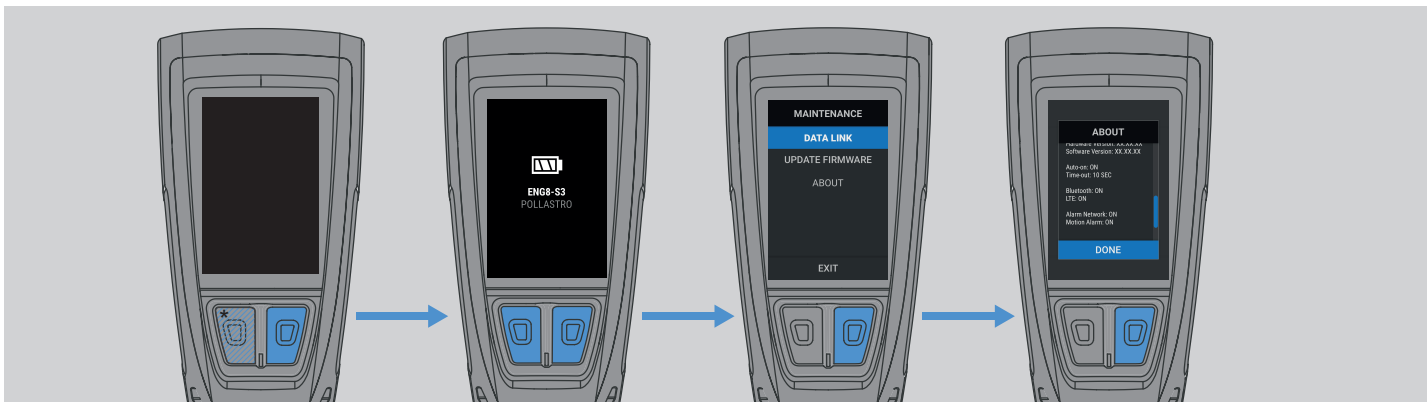
LUNAR device must be clean and dry prior to removal of the battery to prevent moisture or contaminants from entering the electrical connector area.

Failure to follow this caution can result in minor or moderate injury.

4.1.5 Viewing Device Information

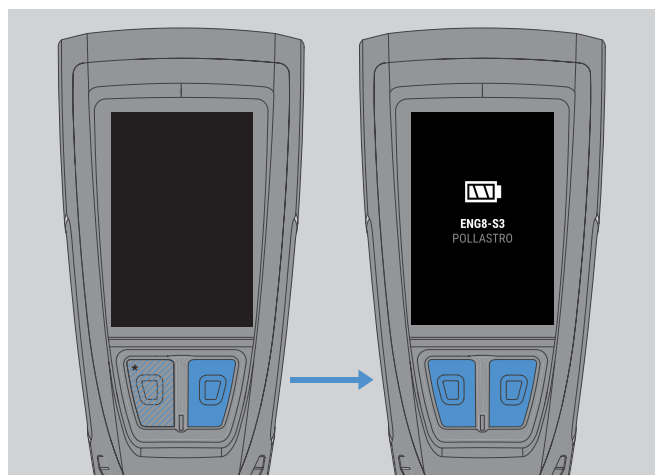
Device information can be viewed from the *Maintenance* menu.

- (1) Open the [Maintenance menu](#).
- (2) Select **ABOUT**.
- (3) Scroll to view the information and select **DONE** to return to the Maintenance [menu](#).



4.1.6 Viewing Battery Level and Device Assignment (Quick Check)

When LUNAR is powered off, a Quick Check can be activated to view the battery level and device assignment.



Press either the **Down** or **Enter** button. ~~The Quick Check screen displays the Battery Level icon, the assigned engine seat, and the ID.~~

4.1.7 Maintaining LUNAR

Make sure this product is inspected and serviced regularly by authorized MSA service personnel.

Keep detailed inspection and service records.

MSA is liable only for maintenance and repairs performed by MSA.

MSA recommends maintenance intervals that follow the overhaul and flow test requirements.

Use only genuine MSA replacement parts.

Changes to devices or components are not permitted and will result in unapproved configurations.

Before Each Use

Each time LUNAR is used, a visual and operational inspection must be performed following the criteria below:

- Check for housing damage due to mechanical, chemical or thermal loads.
- Check for cracks and other damage to the Display and TIC lens.
- Ensure LUNAR battery connecting port is clean and dry prior to installing the battery to prevent corrosion or damage.

- Ensure LUNAR battery is charged regularly depending on use to a battery level of 50% or higher.
- Ensure LUNAR powers on.
- Ensure Motion Alarm activates when LUNAR does not move for an extended period.
- Ensure a Manual Alarm can be activated.
- Ensure a search can be started.

After Each Use

- Carefully clean the Display and TIC lens with a lint-free, isopropyl alcohol wipe.
- Carefully dry using a soft, lint-free cloth. Avoid scratching the Display and TIC lens.
- Charge LUNAR battery to a battery level of 100%.

NOTICE

Do not use any solvents or thinners to clean the TIC lens as they may attack the camera housing materials. Do not use abrasive cleaners or cloths for cleaning the TIC lens as these may also damage the camera.

4.1.8 Storing LUNAR

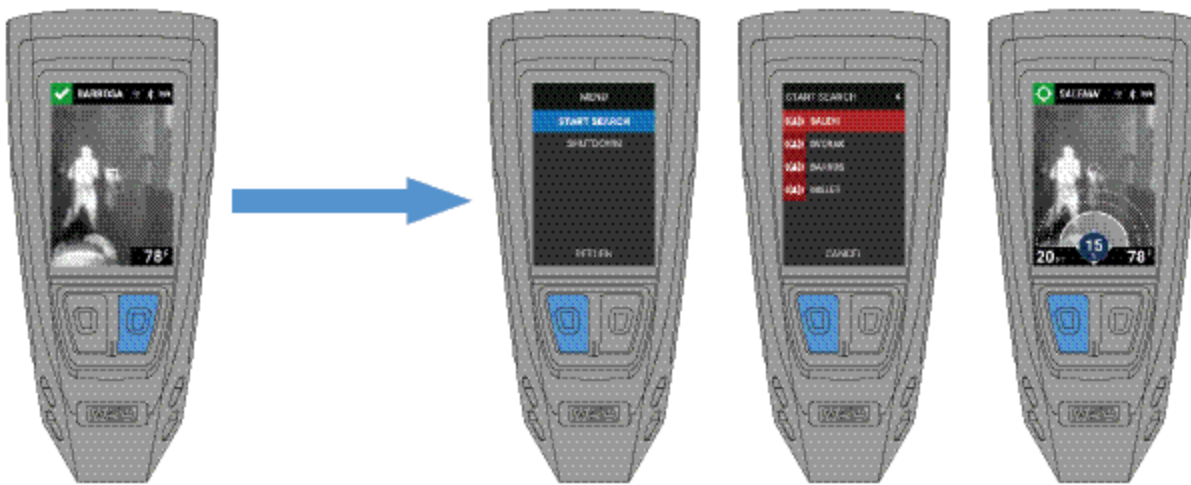
- Do not store LUNAR within or near an area where the device can or might be exposed to any substances and/or ambient conditions that will or might attack any part of the device, causing LUNAR to not perform as designed and approved.
- Do not store LUNAR for extended periods with the battery installed if the device is not intended for service. If LUNAR is in service, ensure that the battery is charged regularly depending on use to a battery level of 50% or higher.
- Ensure the entire LUNAR device is clean and dry.
- Place LUNAR in a suitable storage location so it can be easily reached for emergency use.
- For prolonged storage of LUNAR, remove the battery to prevent corrosion. Store the device in a cool, dry place.

5 Features

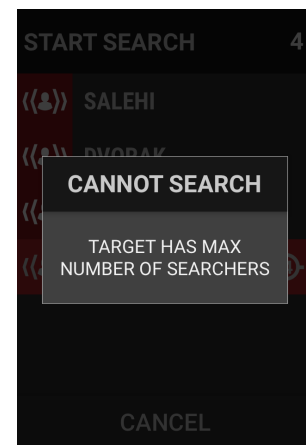
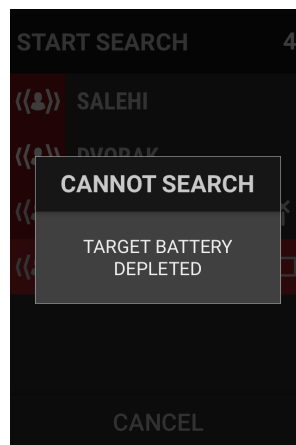
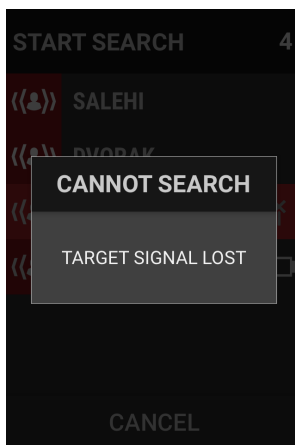
5.0.1 Starting a Search

Start a new search or join a current search from the [Main menu](#). Up to four Users can participate in a search at one time.

- (1) Open the main menu.
- (2) Select **START SEARCH**.
- (3) Scroll the list of names. All Targets with alarms activated are listed [in order of alarm priority](#).
- (4) Select the name of the Target and start or join the search.



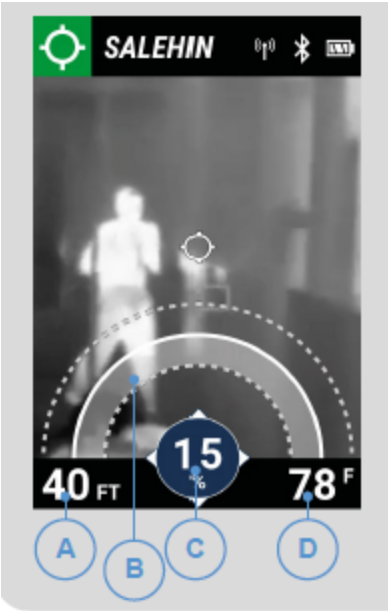
NOTE: If a Target is out of range or has a low battery level , or if four searchers are already participating in the search , the Target cannot be searched.



5.1 Searching Overview

Once a search is started, LUNAR enters *Search* mode. Use the direction and distance indicators on the Display to **help** locate the Target.

UPDATED IMAGE FROM QSG NEEDED



A	Distance (measurement)	Indicates distance, in feet or meters, from the Target.
B	Distance (visual indicator)	Arcs are directly correlated to distance from the Target. - At 80+ feet (24 meters), the outer arc is indicated. - At 40 feet (12 meters) or less, the middle arc is indicated. - At 20 feet (6 meters) or less, the inner arc is indicated. Arcs used to indicate distance from the Target: - The outside arc means the Target is 80+ feet (24 meters). - The middle arc means the Target is within 40 feet (12 meters). - The inside arc means the Target is within 20 feet (6 meters).
C	Directional strength	Indicates the direction of the Target using: Numbers - A scale from 0 to 100 with 100 representing the strongest source of signal.

		Colors - Directly correlated to the signal strength. The lighter the color, the stronger the signal. NOTE: At further distances or with more obstructions between the searcher and Target, the directional strength indicator will provide lower values. As the Searcher gets closer and orients the device toward the Target, these numbers will increase.
D	Thermography	Temperature of the area or item in front of the device. (optional setting)

NOTE: Indicators showing dashes instead of a number and no arcs indicate the signal is lost due to the Target being out of range or having a low battery level.

5.2 Canceling a Search

- (1) While in Search mode, press the **Enter** button.
- (2) Select **YES** to cancel the search. To exit the dialog box and continue the search, select **NO**.

Figure 1

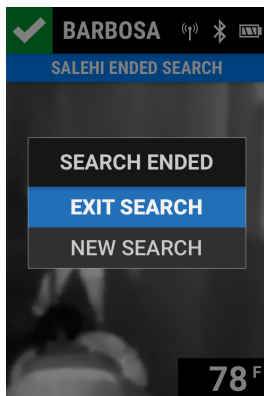


If the Target signal is lost before a search is ended because the Target is out of range or has a low battery level, LUNAR will try to re-acquire the signal. If it is unable, the Distance and Direction strength indicators will appear as dashes, and the Search proximity arcs will be grayed out. After a brief time, the dialog box in Figure 1 opens. Follow the steps above to cancel or continue the search.

5.3 Exiting a Search Canceled by the Target

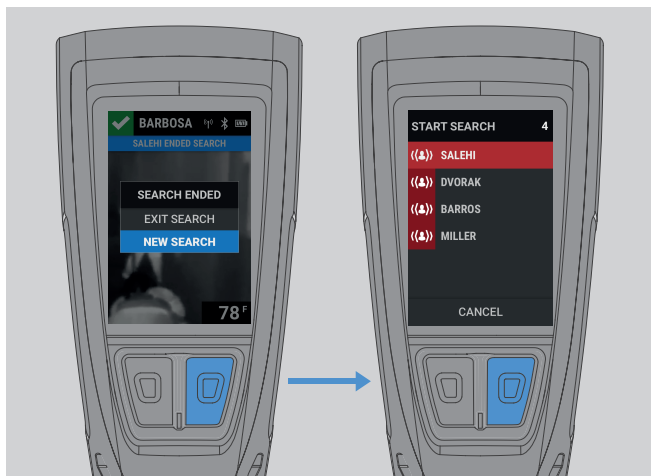
In Search mode, if the Target of a search cancels the alarm on his LUNAR device, Users receive a notification. Searchers can then exit the search or start a new search for another Target.

Exit Search



Select **EXIT SEARCH**. LUNAR returns to the [Display](#).

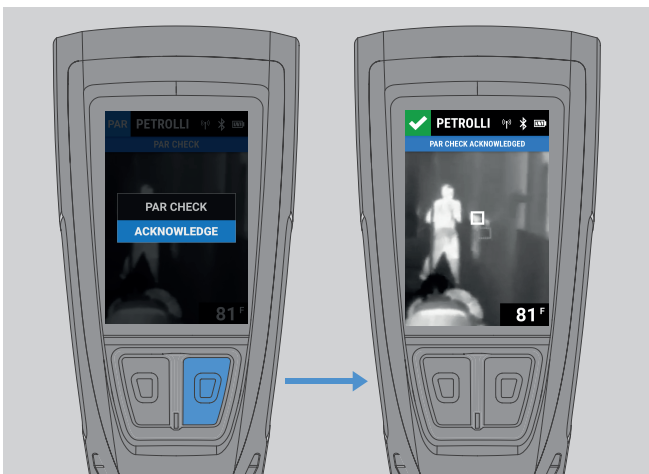
Start New Search



- (1) Select **NEW SEARCH**.
- (2) Scroll the list of names.
- (3) Select the name of the Target to locate and start or join the search. See "Starting a Search" on page 32.

5.4 Acknowledging a PAR Check Notification

When a PAR Check is initiated in FireGrid, a notification appears on the LUNAR device and the PAR icon is displayed in the status bar.

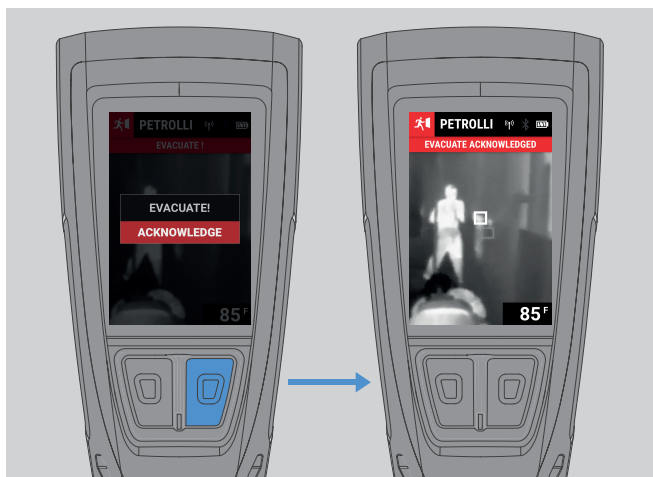


To acknowledge the PAR Check, press the **Enter** button.

NOTE: A PAR Check notification is not displayed if there is an active Manual or Motion alarm on the device. First, cancel the Manual alarm if it is safe to do so. The PAR Check notification is then displayed and the check can be acknowledged.

5.5 Acknowledging an Evacuate Notification

When an Evacuate notification is initiated in Fire Grid, all LUNAR devices on scene receiving the Evacuate notification will be in alarm a notification appears on all LUNAR devices and an alarm sounds until the notification is acknowledged.



To acknowledge the notification, press the **Enter** button.

NOTE: An Evacuate notification is not displayed if there is an active Manual or Motion alarm on the device. First, cancel the Manual alarm if it is safe to do so. The Evacuate notification is then displayed and can be acknowledged.

6 Learn More

6.1 Support

For technical support, please contact MSA:

Phone: 1-877-MSA-FIRE (1-877-672-3473)

Fax: 1-877-672-3930

Email: fire.cs@msasafety.com

6.2 Specifications

6.2.1 Radio

Radio	Part Number	Power	Frequency Range
Bluetooth	All Part Numbers	≤ 4 dBm	2.400 GHz - 2.4835 GHz
2.4 GHz Radio	US Part Numbers	≤ 20 dBm	2.400 GHz - 2.4835 GHz
	EU Part Number	≤ 10 dBm	2.400 GHz - 2.4835 GHz
Sub-GHz Radio	US Part Number	≤ 260 dBm	902 GHz - 928 GHz
	EU Part Number	≤ 20 dBm	863 GHz - 870 GHz
	Australia Part Number	≤ 20 dBm	915 MHz - 928 MHz
Cellular	All Part Numbers	≤ 23 dBm	699 GHz - 787 GHz
		≤ 23 dBm	814 MHz - 862 MHz
		≤ 23 dBm	880 GHz - 915 GHz
		≤ 23 dBm	1.710 MHz - 1.785 MHz
		≤ 23 dBm	1.850 GHz - 1.980 GHz

6.2.2 Ingress Protection Rating

This device has an ingress protection rating of IP 67.

6.2.3 Power Cords

Please use the below table as a guideline for Suitable Power cords.

- (1) Class II model NEMA 1-15P AC power plug with 2 prongs, Q-NA(R)
- (2) Australian AS 3112 configuration: SAA 2 pins Class II, Q-SAA(R)
- (3) UK BS 1363 configuration: UK 2 pins Class II, Q-UKY(R)
- (4) European CEE 7/16 configuration: Europlug 2 PINS, Class II, Q-EU(R)
- (5) Korean KS C8305 configuration: Q-KR(R)
- (6) Argentina IRAM 2073 configuration: 2 pins, Class II Q-AR(R)
- (7) China GR 2099 configuration: 2 pins, Class II Q-CN(R)
- (8) India configuration: 2 pins, Class II, Q-IN(R)
- (9) IEC320/C18 Inlet

6.3 Warranty

MSA The Safety Company warrants MSA LUNAR to be free from defects in materials and/or faulty workmanship for a period of two (2) years.

An optional extended warranty is available. For any additional information relative to use or repair, call 1-877-MSA-FIRE (1-877-672-3473) or write an e-mail to fire.cs@msasafety.com.

For additional contact information refer to the MSA website at <http://www.MSAafety.com>.

6.4 Certifications

See device label for the certification that applies to the LUNAR device.

Table 1

UL 121201 Certified to (Gas) Class I, Groups C & D, Division 2, T3
CSA C22.2 No. 213 Certified to (Gas) Class I, Groups C & D, Division 2, T3

WARNING!

Only approved for use in hazardous locations/areas requiring equipment certified to standards as specified in Certifications *Table 1*.

Do not use **LUNAR** in hazardous locations/areas requiring equipment certification to standards not specified in Certifications *Table 1*.

Failure to follow these warnings can result in serious personal injury or death.

Declaration of Conformity

The Declaration of Conformity can be found under the following link: <https://MSAsafety.com/DoC>.

- * web-Link to DoC area for Europe (in Webdam?)
- * web-Link to DoC area for Australia / New Zealand
- * web-Link to DoC area for Hong Kong

6.5 Legal Notices

MSA accepts no liability in cases where the device has been misused, used inappropriately or not used as intended. MSA accepts no liability in cases where damage or injury is caused by wear and tear, neglect or failure to carry out inspection and maintenance procedures. The selection and use of the device are the exclusive responsibility of the employer and/or individual operator. Warranties and guarantees made by MSA with respect to the device are voided, if it is not used, serviced or maintained in accordance with the instructions in this manual.

7 Appendix A: Open Source Libraries

PACKAGE NAME	PACKAGE VERSION	LICENSE
arm-memspeed	1.00	GPLv2
aws-iot-device-sdk-cpp-v2	1.0+gitAUTOINC+65b8344ddb	Apache-2.0
base-files	3.0.14	GPLv2
base-passwd	3.5.29	GPLv2+
bash	4.40	GPLv3+
bc	1.06	GPLv2+ LGPLv2.1
bluepy	1.3.0	GPL-2.0
bluez5	5.50	GPLv2+ LGPLv2.1+
bluez5-btmgmt-tool	5.50	GPLv2+ LGPLv2.1+
bluez5-noinst-tools	5.50	GPLv2+ LGPLv2.1+
bluez5-testtools	5.50	GPLv2+ LGPLv2.1+
boost-filesystem	1.64.0	BSL-1.0 MIT Python-2.0
boost-system	1.64.0	BSL-1.0 MIT Python-2.0
bt-app-download	1.00	GPLv2
bt-config	1.00	GPLv2
bt-firmware	1.00	GPLv2
bt-spp-commands	1.00	GPLv2
bt-startup	1.00	GPLv2
bumppts	1.00	GPLv2
busybox	1.24.1	GPLv2 bzip2
busybox-hwclock	1.24.1	GPLv2 bzip2
busybox-udhcp	1.24.1	GPLv2 bzip2
buttontest	1.00	GPLv2
ca-certificates	20170717.00	GPL-2.0+ MPL-2.0
cairo	1.14.10	MPL-1 LGPLv2.1
cairo-gobject	1.14.10	MPL-1 LGPLv2.1
compass-test	1.00	GPLv2
cronie	1.5.1	ISC BSD-3-Clause BSD-2-Clause GPLv2+
cryptodev-module	1.90	GPLv2
curl	7.58.0	MIT
dbus	1.10.20	AFL-2
dbus-glib	0.11	AFL-2
dbus-lib	1.10.20	AFL-2

PACKAGE NAME	PACKAGE VERSION	LICENSE
devmem2	1.00	GPLv2+
directfb	1.7.7	LGPLv2.1
dosfstools	4.10	GPLv3
e2fsprogs-mke2fs	1.43.5	GPLv2
e2fsprogs-resize2fs	1.43.5	GPLv2 LGPLv2 BSD MIT
e2fsprogs-tune2fs	1.43.5	GPLv2
ethtool	4.11	GPLv2+
eudev	3.2.2	GPLv2.0+ LGPL-2.1+
eudev-hwdb	3.2.2	GPLv2.0+ LGPL-2.1+
evtest	1.33+AUTOINC+ab140a2dab	GPLv2
expat	2.2.3	MIT
fbtest	20041102-1	GPLv2
file	5.31	BSD
flashbench	0.1+AUTOINC+2e30b1968a	GPLv2
fontconfig	2.12.4	MIT-style MIT PD
freetype	2.80	FreeType
gdb	9.10	GPLv2 GPLv3 LGPLv2 LGPLv3
gdbm	1.13	GPLv3
gdbm-compat	1.13	GPLv3
gdbserver	9.10	GPLv2 GPLv3 LGPLv2 LGPLv3
glib-2.0	2.52.3	LGPLv2+ BSD PD
glibc	2.26	GPLv2 LGPLv2.1
glibc-mtrace	2.26	GPLv2 LGPLv2.1
glibc-thread-db	2.26	GPLv2 LGPLv2.1
gmp	6.1.2	GPLv2+
gnutls	3.5.13	LGPLv2.1+
gobject-introspection	1.52.1	LGPLv2+ GPLv2+
gzip	1.80	GPLv3+
i2c-tools	3.1.2	GPLv2+
imx-lib	5.8+AUTOINC+3f777974c0	LGPLv2.1
init-ifupdown	1.00	GPLv2
initscripts	1.00	GPLv2
initscripts-functions	1.00	GPLv2
iproute2	4.11.0	GPLv2+
iw	4.90	BSD

PACKAGE NAME	PACKAGE VERSION	LICENSE
kernel-base	1.00	GPLv2
kernel-module-cryptodev-4.14.78- msa-lunar-ts	1.90	GPLv2
kernel-module-g-acm-ms-4.14.78- msa-lunar-ts	1.00	GPLv2
kernel-module-g-cdc-4.14.78- msa-lunar-ts	1.00	GPLv2
kernel-module-g-ether-4.14.78- msa-lunar-ts	1.00	GPLv2
kernel-module-g-ffs-4.14.78- msa-lunar-ts	1.00	GPLv2
kernel-module-g-hid-4.14.78- msa-lunar-ts	1.00	GPLv2
kernel-module-g-mass-storage- 4.14.78- msa-lunar-ts	1.00	GPLv2
kernel-module-g-multi-4.14.78- msa-lunar-ts	1.00	GPLv2
kernel-module-g-ncm-4.14.78- msa-lunar-ts	1.00	GPLv2
kernel-module-g-printer-4.14.78- msa-lunar-ts	1.00	GPLv2
kernel-module-g-serial-4.14.78- msa-lunar-ts	1.00	GPLv2
kernel-module-g-zero-4.14.78- msa-lunar-ts	1.00	GPLv2
kernel-module-gadgetfs-4.14.78- msa-lunar-ts	1.00	GPLv2
kernel-module-imx2-wdt-4.14.78- msa-lunar-ts	1.00	GPLv2
kernel-module-usb-f-hid-4.14.78- msa-lunar-ts	1.00	GPLv2
kernel-module-usb-f-printer- 4.14.78- msa-lunar-ts	1.00	GPLv2
kernel-modules	1.00	GPLv2
libacl	2.2.52	LGPLv2.1+
libattr	2.4.47	LGPLv2.1+
libbz2	1.0.6	bzip2
libcap	2.25	BSD
libcomerr	1.43.5	GPLv2 LGPLv2 BSD MIT

PACKAGE NAME	PACKAGE VERSION	LICENSE
libcrypto	1.0.2o	openssl
libcurl	7.58.0	MIT
libdrm	2.4.89	MIT
libdrm-etnaviv	2.4.89	MIT
libdrm-kms	2.4.89	MIT
libdrm-tests	2.4.89	MIT
libe2p	1.43.5	GPLv2 LGPLv2 BSD MIT
libeigen	3.3.4	MPL-2.0
libelf	0.17	(GPLv3 Elfutils-Exception)
libestr	0.1.10	LGPLv2.1
libevent	2.1.8	BSD MIT
libext2fs	1.43.5	GPLv2 LGPLv2 BSD MIT
libfastjson	0.99.4	MIT
libffi	3.2.1	MIT
libgcc	7.3.0	GPL-3.0-with-GCC-exception
libgcrypt	1.8.0	LGPLv2.1+
libgpg-error	1.27	GPLv2+ LGPLv2.1+
libgpiod	0.3.1	LGPLv2.1+
libidn	1.33	LGPLv2.1+
libjpeg-turbo	1.5.2	BSD-3-Clause
libkmod	24+gitAUTOINC+ef4257b59c	LGPL-2.1+
liblogging	1.0.5	BSD
liblzma	5.2.3	PD
libnfsidmap	0.25	BSD
libnl	3.2.29	LGPLv2.1
libnl-genl	3.2.29	LGPLv2.1
libopencv-core	3.3+gitAUTOINC+87c27a074d_2a9d1b22ed_a62e20676a_34e4206aef_fccf7cd6a4	BSD-3-Clause
libopencv-highgui	3.3+gitAUTOINC+87c27a074d_2a9d1b22ed_a62e20676a_34e4206aef_fccf7cd6a4	BSD-3-Clause
libopencv-imgproc	3.3+gitAUTOINC+87c27a074d_2a9d1b22ed_a62e20676a_34e4206aef_fccf7cd6a4	BSD-3-Clause
libpcap	1.8.1	BSD
libpcre	8.41	BSD
libpng	1.6.31	Libpng
libpython2	2.7.14	PSFv2

PACKAGE NAME	PACKAGE VERSION	LICENSE
libpython3	3.5.3	PSFv2
libSDL2	2.0.5	Zlib
libsqlite3	3.20.0	PD
libssl	1.0.2o	openssl
libstdc++	7.3.0	GPL-3.0-with-GCC-exception
libtirpc	1.0.2	BSD
libudev	3.2.2	LGPL-2.1+
libunistring	0.9.7	LGPLv3+
libusb1	1.0.21	LGPLv2.1+
libwrap	7.60	BSD
libxml2	2.9.5	MIT
linux-firmware-imx-sdma-imx6q	0.0+gitAUTOINC+8fc2d4e556	Firmware-imx-sdma_firmware
linux-firmware-imx-sdma-license	0.0+gitAUTOINC+8fc2d4e556	Firmware-imx-sdma_firmware
logrotate	3.12.3	GPLv2
lte-startup	1.00	GPLv2
lunar-mfgtools	1.00	GPLv2
lzo	2.10	GPLv2+
memedit	0.90	GPLv2
memtester	4.3.0	GPLv2
mfgtest-utils	1.00	GPLv2
minicom	2.7.1	GPLv2+
mmc-utils	0.10	GPLv2
modutils-initscripts	1.00	PD
mtt-utils	2.0.0	GPLv2+
mtt-utils-misc	2.0.0	GPLv2+
mtt-utils-ubifs	2.0.0	GPLv2+
nandflipbits	1.00	GPL-2.0
nano	2.7.4	GPLv3
ncurses-libncurses	6.0+20171125	MIT
ncurses-libncursesw	6.0+20171125	MIT
ncurses-libpanel	6.0+20171125	MIT
ncurses-libtinfo	6.0+20171125	MIT
ncurses-terminfo	6.0+20171125	MIT
ncurses-terminfo-base	6.0+20171125	MIT
netbase	5.40	GPLv2

PACKAGE NAME	PACKAGE VERSION	LICENSE
nettle	3.30	LGPLv3+
nfs-utils-client	2.1.1	MIT GPLv2+ BSD
nfs-utils-mount	2.1.1	MIT GPLv2+ BSD
openssh	7.5p1	BSD
openssh-keygen	7.5p1	BSD
openssh-scp	7.5p1	BSD
openssh-sftp-server	7.5p1	BSD
openssh-ssh	7.5p1	BSD
openssh-sshd	7.5p1	BSD
openssl	1.0.2o	openssl
openssl-conf	1.0.2o	openssl
packagegroup-core-boot	1.00	MIT
packagegroup-core-nfs-client	1.00	MIT
packagegroup-core-ssh-openssh	1.00	MIT
packagegroup-core-tools-debug	1.00	MIT
packagegroup-hwtools	1.00	MIT
packagegroup-machine-base	1.00	MIT
packagegroup-userland	1.00	MIT
parted	3.20	GPLv3+
payload-encryption	1.00	GPLv2
perl	5.24.1	Artistic-1.0
perl-lib	5.24.1	Artistic-1.0
picocom	2.2+gitAUTOINC+deffd18c24	GPLv2+
pixman	0.34.0	MIT MIT-style PD
popt	1.16	MIT
powermon	1.00	GPLv2
ppp	2.4.7	BSD GPLv2+ LGPLv2+ PD
protobuf	3.4.1+gitAUTOINC+b04e5cba35	BSD-3-Clause
psplash	0.1+gitAUTOINC+2015f7073e	GPLv2+
psplash-msa	0.1+gitAUTOINC+2015f7073e	GPLv2+
pxpdemo	1.00	GPLv2
python-core	2.7.14	PSFv2
python-lang	2.7.14	PSFv2
python-posix-ipc	1.0.4	BSD
python-re	2.7.14	PSFv2

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python-readline	2.7.14	PSFv2
python3-2to3	3.5.3	PSFv2
python3-argparse	3.5.3	PSFv2
python3-asyncio	3.5.3	PSFv2
python3-audio	3.5.3	PSFv2
python3-codecs	3.5.3	PSFv2
python3-compile	3.5.3	PSFv2
python3-compression	3.5.3	PSFv2
python3-core	3.5.3	PSFv2
python3-crypt	3.5.3	PSFv2
python3-ctypes	3.5.3	PSFv2
python3-curses	3.5.3	PSFv2
python3-datetime	3.5.3	PSFv2
python3-db	3.5.3	PSFv2
python3-dbus	1.2.4	MIT
python3-debugger	3.5.3	PSFv2
python3-difflib	3.5.3	PSFv2
python3-distutils	3.5.3	PSFv2
python3-doctest	3.5.3	PSFv2
python3-email	3.5.3	PSFv2
python3-enum	3.5.3	PSFv2
python3-fcntl	3.5.3	PSFv2
python3-gdbm	3.5.3	PSFv2
python3-html	3.5.3	PSFv2
python3-idle	3.5.3	PSFv2
python3-image	3.5.3	PSFv2
python3-importlib	3.5.3	PSFv2
python3-inputtimeout	git	MIT
python3-io	3.5.3	PSFv2
python3-json	3.5.3	PSFv2
python3-lang	3.5.3	PSFv2
python3-logging	3.5.3	PSFv2
python3-mailbox	3.5.3	PSFv2
python3-math	3.5.3	PSFv2
python3-mime	3.5.3	PSFv2

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python3-misc	3.5.3	PSFv2
python3-mmap	3.5.3	PSFv2
python3-modules	3.5.3	PSFv2
python3-msgpack	0.4.8	Apache-2.0
python3-multiprocessing	3.5.3	PSFv2
python3-netclient	3.5.3	PSFv2
python3-netserver	3.5.3	PSFv2
python3-nose	1.3.7	LGPLv2.1
python3-numbers	3.5.3	PSFv2
python3-numpy	1.13.1	BSD-3-Clause
python3-obex	git	GPLv3+
python3-pickle	3.5.3	PSFv2
python3-pkgutil	3.5.3	PSFv2
python3-pprint	3.5.3	PSFv2
python3-profile	3.5.3	PSFv2
python3-py	1.4.34	MIT
python3-pybluez	0.22	GPL-2.0
python3-pycairo	1.10.0	LGPLv3
python3-pydoc	3.5.3	PSFv2
python3-pyobject	3.24.1	LGPLv2.1
python3-pyserial	3.40	BSD
python3-pytest	3.2.2	MIT
python3-re	3.5.3	PSFv2
python3-readline	3.5.3	PSFv2
python3-replib	3.5.3	PSFv2
python3-resource	3.5.3	PSFv2
python3-selectors	3.5.3	PSFv2
python3-setuptools	36.2.7	MIT
python3-shell	3.5.3	PSFv2
python3-signal	3.5.3	PSFv2
python3-smtpd	3.5.3	PSFv2
python3-sqlite3	3.5.3	PSFv2
python3-sqlite3-tests	3.5.3	PSFv2
python3-stringold	3.5.3	PSFv2
python3-subprocess	3.5.3	PSFv2

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python3-syslog	3.5.3	PSFv2
python3-terminal	3.5.3	PSFv2
python3-textutils	3.5.3	PSFv2
python3-threading	3.5.3	PSFv2
python3-tkinter	3.5.3	PSFv2
python3-typing	3.5.3	PSFv2
python3-unittest	3.5.3	PSFv2
python3-unixadmin	3.5.3	PSFv2
python3-xml	3.5.3	PSFv2
python3-xmlrpc	3.5.3	PSFv2
readline	7.00	GPLv3+
rpcbind	0.2.4	BSD
rsync	3.1.3	GPLv3+
rsyslog	8.29.0	GPLv3 LGPLv3 Apache-2.0
run-postinsts	1.00	MIT
shadow	4.2.1	BSD
shadow-base	4.2.1	BSD
shadow-securetty	4.2.1	MIT
shared-mime-info	1.80	LGPLv2+
socat	1.7.3.2	GPL-2.0+-with-OpenSSL-exception
strace	4.18	BSD
sysvinit	2.88dsf	GPLv2+
sysvinit-inittab	2.88dsf	GPLv2
sysvinit-pidof	2.88dsf	GPLv2+
tar	1.29	GPLv3
tbb	20170412+AUTOINC+a2cfdfe946	Apache-2.0
tree	1.7.0	GPLv2
u-boot-fw-utils	2019.04	GPLv2+
update-alternatives-opkg	0.3.5	GPLv2+
update-rc.d	0.70	GPLv2+
usbutils	8.00	GPLv2+
util-linux	2.30	GPLv2+ LGPLv2.1+ BSD
util-linux-blkdiscard	2.30	GPLv2+ LGPLv2.1+ BSD
util-linux-cfdisk	2.30	GPLv2+ LGPLv2.1+ BSD
util-linux-fdisk	2.30	GPLv2+ LGPLv2.1+ BSD

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util-linux-ionice	2.30	GPLv2+ LGPLv2.1+ BSD
util-linux-libblkid	2.30	GPLv2+ LGPLv2.1+ BSD
util-linux-libfdisk	2.30	GPLv2+ LGPLv2.1+ BSD
util-linux-libmount	2.30	GPLv2+ LGPLv2.1+ BSD
util-linux-libsmartcols	2.30	GPLv2+ LGPLv2.1+ BSD
util-linux-libuuid	2.30	GPLv2+ LGPLv2.1+ BSD
util-linux-losetup	2.30	GPLv2+ LGPLv2.1+ BSD
util-linux-lsblk	2.30	GPLv2+ LGPLv2.1+ BSD
util-linux-mkfs	2.30	GPLv2+ LGPLv2.1+ BSD
util-linux-mount	2.30	GPLv2+ LGPLv2.1+ BSD
util-linux-mountpoint	2.30	GPLv2+ LGPLv2.1+ BSD
util-linux-prlimit	2.30	GPLv2+ LGPLv2.1+ BSD
util-linux-readprofile	2.30	GPLv2+ LGPLv2.1+ BSD
util-linux-sfdisk	2.30	GPLv2+ LGPLv2.1+ BSD
util-linux-sulogin	2.30	GPLv2+ LGPLv2.1+ BSD
util-linux-swaponoff	2.30	GPLv2+ LGPLv2.1+ BSD
util-linux-switch-root	2.30	GPLv2+ LGPLv2.1+ BSD
util-linux-umount	2.30	GPLv2+ LGPLv2.1+ BSD
watchdog	5.15	GPL-2.0+
watchdog-config	1.00	MIT-X
yogurt-version	1.50	MIT
zip	3.00	BSD-3-Clause
zlib	1.2.11	Zlib