



# A CHANGING WORLD

## HOW WE PREPARE AND RESPOND IS CHANGING

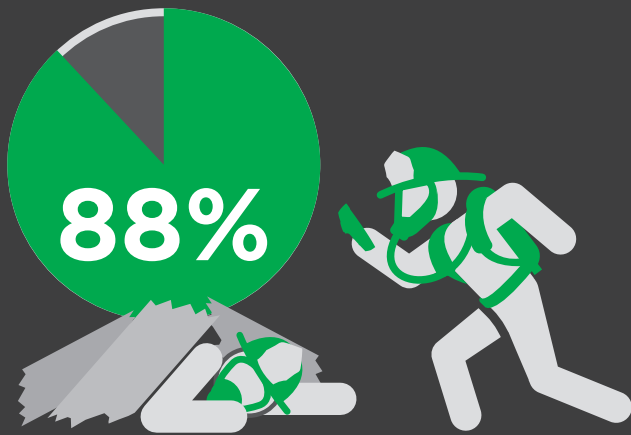


Training and safety tactics have been the staple of preparing for the uncertain— a mayday. The traditional approach to mayday is rooted in the assumption that Incident Command is set-up and able to dictate direction in the critical time, voice communications are clear, and the dedicated RIT team will take action.

The technology revolution has opened the door for safety advancements that are far beyond traditional practices and enhance existing tools and techniques. To aid in being prepared for the worst day, more is needed than accounting for some of the team, incomplete information on the crew, and tools for a subset of the team to respond in a critical time.

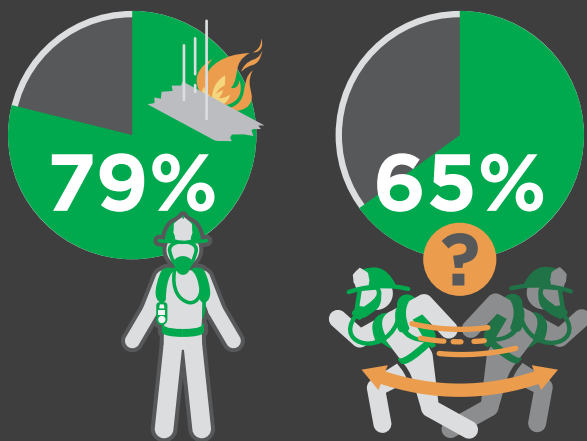
You need to be confident your entire crew is accounted for and you are being supplied with real-time information for confident decision making. You need to close the vulnerability gap with technology that goes beyond just having an idea of where your crew is or how much air they have, but knowing if a mayday is issued, everyone on the scene is instantly notified and can respond. Because safety is not just one tool or one team member—it's about the entire crew being confident and prepared.

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



### 88% of Successful RIT Rescues Come from Within the Structure<sup>1</sup>

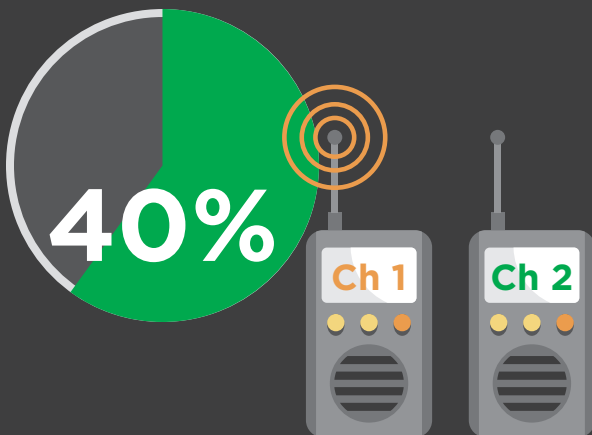
Although it is common to have a dedicated RIT, this approach heavily relies on Incident Command being established and tools external to the structure being used. Research shows that with the uncertainty and criticality of every mayday situation, success comes from within.



### Situational Awareness Contributed to 79% & Disorientation Contributed to 65% of Maydays<sup>2</sup>

Firefighter staffing numbers are dropping lower than ever before resulting in increased stress, fatigue and task overload affecting situational awareness.

In addition, fires are burning hotter and faster than before due to today's synthetic materials. These conditions contribute to hazards such as zero visibility and flashover affecting orientation.



### 40% of Mayday Calls Were on the Wrong Channel<sup>3</sup>

Voice communications can be very challenging in a live fire situation, and Incident Commanders don't always have the right information to make confident decisions. Given the dynamics of any scene, communication can be compromised, altering the outcome.

## MSA CAN HELP

MSA is the first manufacturer to introduce advancements in firefighter safety, providing F.A.S.T Technology and Edge Detection enhanced thermal imaging to every firefighter on-scene. With the MSA LUNAR® Connected Device and FireGrid™ you experience a network of safety providing real-time, on-scene visibility for confident decision making for all personnel on and off scene.

Using the effective mix of today's safety advancements means being able to utilize new technology as soon as it becomes available—all on the same platform through device and application launches, and firmware updates. With rapidly advancing capabilities in the areas of connectivity, situational awareness, locating, and monitoring, the possibilities for firefighter safety are staggering. In the end, you'll protect not only your investment, but most importantly, increase the safety of your firefighters and personnel on a fire scene.

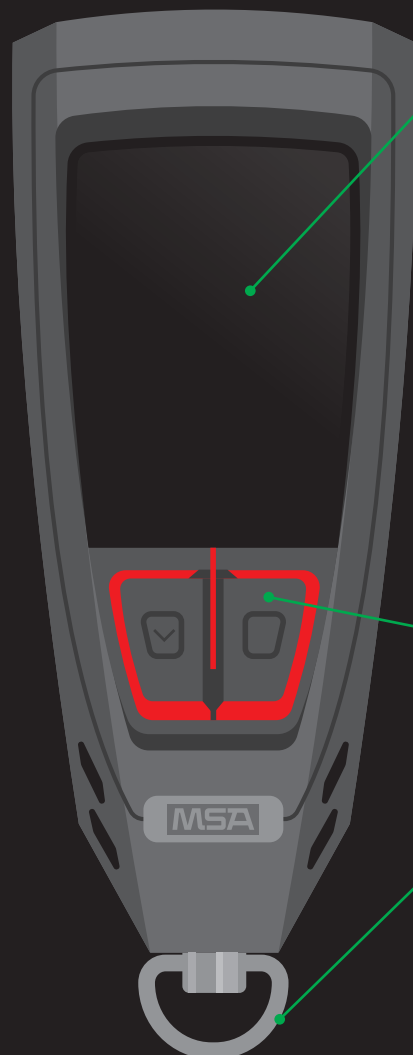
### ACCOUNTED

Wireless accountability for multiple jobs and various calls

Equipped with three alarms: manual, motion and hardware

Works as a standalone system or with the MSA G1 SCBA for versatile accountability

Enabled with GPS to provide estimated device location external to a structure, on FireGrid Monitor



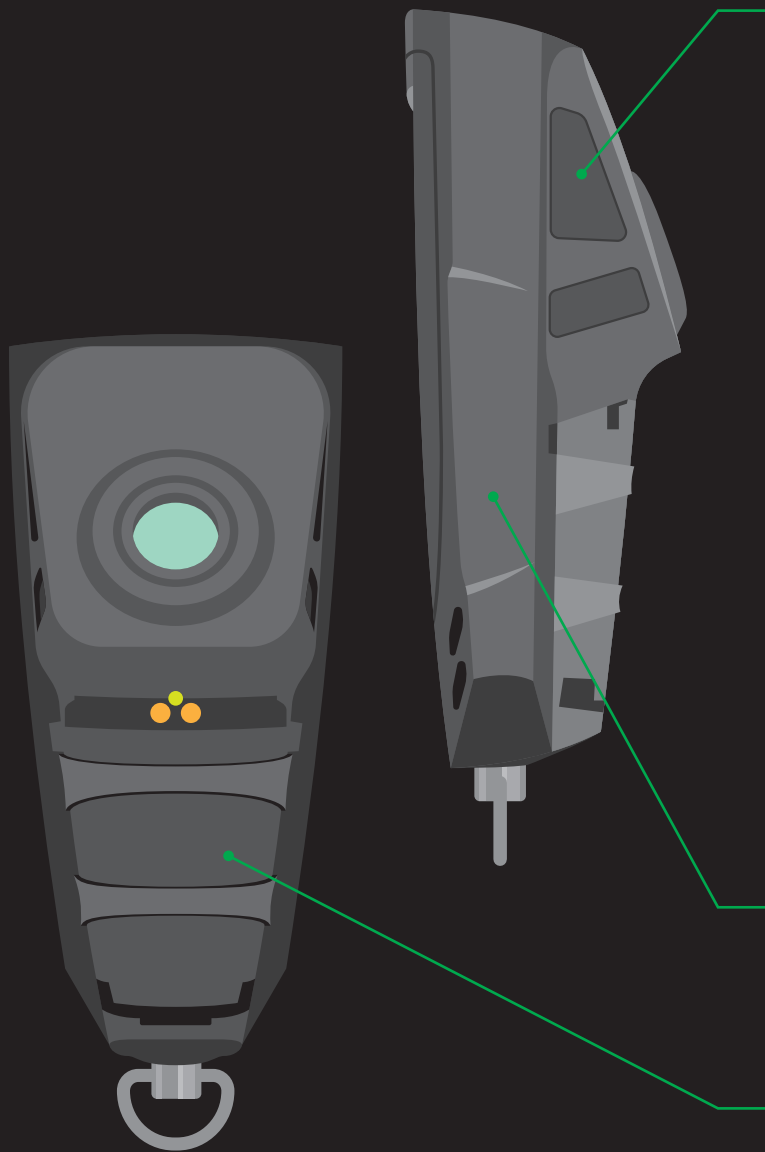
### CONFIDENT

3.5" (89 mm) display for clear viewing of Edge Detection-enhanced thermal imaging, receiving an Evacuation, and confirming the air pressure, time remaining, and battery status of the paired G1 SCBA.

### COMFORTABLE

Designed with two easily-locatable buttons for simple scrolling and selecting in a gloved hand.

Swivel quick disconnect for easy use with multiple attachment methods.



## CONNECTED

Equipped with LTE-M direct cloud connectivity enabling local monitoring

Equipped with the LUNAR-to-LUNAR network which is self-forming and independent of cellular connectivity to keep the team connected and communicating

Equipped with Firefighting Assisting Search Technology (F.A.S.T.) for prompt notification that a team member is down and providing distance, directional and thermal feedback to aid in the rescue of a downed firefighter

Pairs with the G1 SCBA via Bluetooth to deliver key SCBA data to Incident Command

Now available for use on FirstNet®, the only network built with and for first responders

## COMFORTABLE

Covered in a rubber overmold for secure gripping and increased ruggedness.

## CONFIDENT

Textured rechargeable battery for secure gripping and to keep you powered when you need it.

## SOURCES

1 Abbott, Don. Project Mayday, 2019, [projectmayday.net/public/res/pdf/2015%20\\_2019\\_PM\\_Career.pdf](https://projectmayday.net/public/res/pdf/2015%20_2019_PM_Career.pdf).

2 Abbott, Don. Project Mayday, 2019, [projectmayday.net/public/res/pdf/2015%20\\_2019\\_PM\\_Career.pdf](https://projectmayday.net/public/res/pdf/2015%20_2019_PM_Career.pdf).

3 "Firefighter Mayday? Reality vs. Myth." *Fire Engineering*, 14 Apr. 2016, [www.fireengineering.com/2016/04/14/240836/firefighter-mayday-reality-vs-myth/](http://www.fireengineering.com/2016/04/14/240836/firefighter-mayday-reality-vs-myth/).

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