

# Helping Save Lives Through Global Search and Rescue Solutions



# Introduction

Honeywell Search and Rescue, part of Honeywell Safety and Productivity Solutions, offers a truly global mission-critical service to both public and private search and rescue (SAR) organizations. They rely on us to ensure that they can respond rapidly and effectively in a life-saving capacity to any and every urgent need, whether it be at sea or on land, on a mountain or in a remote desert.

*We're proud of the very real difference our technology makes, not just to the individuals whose lives we help to save through the use of our technology, but also the professionals who venture into often dangerous environments to do their duty.*

*- Taylor Smith, Vice President and General Manager, Honeywell Safety and Productivity Solutions*

Our success is based on over 35 years of pioneering technology innovation that has made us the leading provider of SAR solutions. Our global footprint means that we can serve customers efficiently anywhere in the world, and support them long into the future.

We provide hardware and software solutions for the majority of COSPAS-SARSAT systems in operation today. Our technology spans the entire ecosystem: from ground stations to mission-control systems, to Rescue Coordination Center systems and network infrastructure.

Our technology helps SAR organizations to save more lives, both those of the victims of disaster, and those of the rescue operations workers themselves.

Since the inception of the international COSPAS-SARSAT program, a reported 40,000 individual lives have been saved by SAR operations around the world, and Honeywell is recognized as critical to that huge effort.

**We are making a difference – and we will continue to do so.**

*Wherever you go, you're not alone.*



# Out of Sight Never Out of Mind

## A Timeless Need

The need for search and rescue is a timeless one. In fact, with more vessels, aircraft and land vehicles travelling across every part of our planet than ever before, the effectiveness of SAR technology is critical to the functioning of the modern world.

Governments and their civilian and military forces are facing rising demand for SAR capacity. Increased commercial shipping, the enduring popularity of recreational sports in remote locations such as sailing and the movement of people through hostile terrain and over unpredictable seas means that the provision of humanitarian SAR is high on the news agenda. It's also important for commercial and political reasons.

Time is always critical in search and rescue efforts. The quicker a distress signal is raised and then received, the quicker a SAR team can be dispatched to save lives. Everything we do at Honeywell Search and Rescue is focused on making that happen seamlessly – whatever the conditions and location. We also work to ensure that we can achieve that aim in the most cost-efficient way possible. By ensuring that SAR missions are planned and managed efficiently, we can deliver better outcomes at a manageable cost. In this field, the return on investment is not just counted in financial terms, but in lives too.

Efficiency in the deployment of people and resources also reduces the distress suffered by those in need of rescue, and offers SAR professionals greater visibility of the situation in real time so that operations can be carried out more safely for all involved. Better planning and visibility of environmental and other factors also ensures that all available resources are used optimally.

## Market-Leading Expertise

Honeywell's market-leading search and rescue products and solutions have been at the center of search and rescue operations around the globe for over 35 years, including everything from advanced signal processing equipment to COSPAS-SARSAT ground stations and incident management software.

Our unrivalled expertise in global tracking allows our customers to rapidly and reliably receive and process distress beacon data from COSPAS-SARSAT satellites, pinpoint emergency locations and distribute search and rescue data to Rescue Coordination Centers to effectively coordinate SAR missions.

*Wherever you go, you're not alone.*



# Search and Rescue Products and Solutions

Honeywell has provided and supported installations of SAR solutions comprising antennas, terminals, consoles and software worldwide in over 20 countries including more than 18 mission-control centers. Our solutions for rescue control centers, including the Operation Control Console and the market-leading SARMaster application, give your operation a powerful solution for comprehensive search and rescue incident management. Rescue Coordination Center operators can react more quickly and make better-informed choices in a crisis. SARMaster helps to prioritize resources and more intelligently deploy rescue teams to the field, saving critical time in life-saving situations.

## Antennas and Terminals

Ensuring your operation complete coverage from the COSPAS-SARSAT network, Honeywell offers a range of local user terminals and antennas for processing 406 MHz distress beacons. Designed to operate maintenance-free in the harshest environments and provide exceptional uptime, accuracy and reliability, each works with a different satellite type.

The Honeywell low-Earth orbit local user terminal and antenna (LEOLUT) uses Doppler-based signal processing to pinpoint precise location information for 406 MHz distress beacons, and is built to withstand harsh environments such as winds of up to 300 km/hr (186 mi/h). The roof-mounted antenna's range of motion is digitally controlled, ensuring the best possible tracking of COSPAS-SARSAT satellites.

Designed to work with geostationary satellites capable of continually viewing large areas of the Earth, the Honeywell geo-stationary local user terminal and antenna (GEOLUT) gives SAR operations fast alert detection and wide coverage for receiving and down-converting GEOSAR signals.

For solutions using next-generation medium Earth orbit satellites, the Honeywell Medium Earth Orbit Local User Terminal and Antenna (MEOLUT) bridges existing geo-stationary and low Earth orbit infrastructure to confirm the location of emergency alerts within seconds. MEOLUT is fully configurable to precisely match the needs of each SAR organization.

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### Operation Control Console

The Honeywell Operation Control Console (OCC) is a high-end processing platform that receives and processes incident alert data received from Local User Terminals (LUTs) and automatically distributes search and rescue alert data to Rescue Coordination Centers. The OCC system includes a workstation that provides control center operators with a full suite of tools to effectively carry out and manage SAR operations. The system automatically generates and distributes messages to appropriate foreign and domestic SAR agencies.

### SARMaster Application

Our SARMaster is an advanced search and rescue (SAR) incident management system offering extensive SAR planning tools used to coordinate all SAR efforts in a single control center view. SARMaster provides rescue coordination centers (RCCs) around the world with a complete view of SAR data, including emergency beacon locations and information about local SAR resources (e.g., vessels, helicopters and personnel).

The latest release is a browser-accessible web-based application that can be hosted securely on your own, or on Honeywell-managed, servers. It incorporates multiple databases such as GIS, incident information, SAR resources, ship and aircraft registries, all in one view. It provides a powerful automated method for what were manual, time-consuming tasks of gathering case information: incident logging, data entry, registration database lookup, rescue resources lookup, checklists, mapping and reporting. SARMaster displays both spatial and text-based data on up to four monitors per workstation.

SARMaster has consistently proven its effectiveness for civil and military operations, deployed in 15+ countries, including the largest COSPAS-SARSAT adopters and other SAR agencies around the world. Honeywell's end-to-end SAR offerings including satellite ground stations, mission control centers (MCCs) and RCCs, have played a key role in the expansion of the worldwide SAR network and are currently used by the majority of countries that participate in the COSPAS-SARSAT program.

# The best and bravest professionals. The latest and best technology.

Honeywell Search and Rescue is proud to serve the brave professionals who conduct search and rescue operations all over the world, each and every day. Everything we do is focused on helping save lives in the most efficient and fail-proof way possible.

## For more information

[www.gt.honeywell.com](http://www.gt.honeywell.com)

## Honeywell Safety and Productivity Solutions

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