



MOTOTRBO

ION

# ALWAYS N

SEE THE NEXT GENERATION OF RADIO IN ACTION  
FOR **OIL AND GAS.**

**THE OIL AND GAS INDUSTRY IS WELL-KNOWN FOR ITS INNOVATION IN EFFECTIVENESS AND SAFETY. OIL AND GAS HAS GAINED AN ADVANTAGE OVER OTHER INDUSTRIES BY LEADING THE WAY IN THE ADOPTION OF DIGITAL TECHNOLOGIES, IMPROVING RECOVERY RATES, INCREASING SAFETY, AND CONSISTENTLY PROVIDING ACCESS TO INFORMATION.**

MOTOTRBO™ Ion is the first business-ready communication device with always-on voice and broadband data capabilities, ideal for oil and gas operations in all environments. Ion brings together our renowned PTT performance, open app ecosystem on the Android platform, and access to Motorola's unified technology ecosystem featuring video security and analytics solutions, best-in-class network security, and powerful new software and technology services like smart virtual assistants.

MOTOTRBO Ion is the unbeatable work tool to keep communications and data flowing within any Upstream, Midstream or Downstream project. MOTOTRBO Ion is designed for tough and extreme environments so that you can take it with you wherever the job takes you. It is also designed to be usable with gloves and built with

ultra-resistant materials inside and out, from its casing to its Gorilla Glass 3 screen. It is completely dust-tight and resists immersion in water, with the best audio quality in the industry and batteries that last up to 25 hours for uninterrupted use. It also includes a photo and video camera to record data and evidence in the field. Additionally, it is the only smart radio on the market that is intrinsically safe and certified to meet UL TIA-4950 safety standards.

Change the way you operate and interoperate with smart connectivity solutions to reduce equipment downtime, optimise infrastructure operation, and keep personnel safe and protected from potentially dangerous situations working in fully connected oil and gas fields.



# CONNECTED AND SECURE OIL & GAS OPERATIONS

## APPS ARE ON

USING SOLUTIONS FOR YOUR SPECIFIC NEEDS IS ESSENTIAL FOR COLLECTING, STORING, AND ANALYSING YOUR DATA. COLLECTED DATA THAT IS SHARED IN REAL-TIME CAN BE USED TO PREDICT RESULTS AND MAKE BETTER BUSINESS DECISIONS.



### RECEIVE VOICE AND VIDEO ALERTS

Respond more quickly to events by automatically sending radio alerts and information in the form of text, pictures, or even video, giving other team members the intelligence they need to take immediate action in hazardous situations.



### ALWAYS STAY PREPARED FOR EMERGENCIES

Connect paging systems, alarms, and siren systems to your MOTOTRBO Ion smart radio and gain control over more systems than ever before. With Ion, you can activate them remotely, and even turn off machines from the radio in case of an emergency.



### REGISTER CHECK-IN AND CHECK-OUT OF PERSONNEL AND THEIR EQUIPMENT

Activate the use of barcode scanning to check in and check out personnel, as well as maintain an up-to-date asset inventory.



### MAKE USE OF ARTIFICIAL INTELLIGENCE

Leverage the full potential of AI to increase the safety of your workers and premises. Whether you are tracking vehicles around a site or spotting potential intruders at the fence line, AI in the field can speed up your response to evolving situations by calling attention to unusual activity.



### INCORPORATE APPLICATIONS INTO AN OPEN-SOURCE ECOSYSTEM

Loaded with Android 10, MOTOTRBO Ion can run apps from the Android app store, or your own corporate apps. This gives your whole team the power to improve processes with the best productivity apps and customised solutions for their role.





## CONNECTED AND SECURE OIL & GAS OPERATIONS



### DEPENDABILITY IS **ON**

PROVIDE WORKING TEAMS WITH MISSION CRITICAL COMMUNICATION TOOLS TO ALLOW THEM TO COLLABORATE IN REAL TIME WITH CONFIDENCE AND OPERATE OPTIMALLY EVEN IN HOSTILE ENVIRONMENTS.



#### BE SAFE IN DANGEROUS ENVIRONMENTS

Trust your Ion radio to operate in hazardous environments with UL TIA-4950 approval on the device and accessories.



#### WORK IN THE HARSHTEST AREAS WITHOUT ANY RISK OF DEVICE DAMAGE

Be confident that your Ion smart radio will keep working as it faces wind, rain, snow and dust. The ultra-rugged, IP68-certified housing with a Gorilla Glass 3 screen can withstand drops of over 1.2m onto concrete as well as water submersion for up to 2 hours.



#### SHARE INFORMATION ANYTIME WITHOUT REMOVING GLOVES

The Gorilla Glass 3 touchscreen allows to operate in the toughest conditions. It's immune to false activation from water, snow, dirt, and grease, and even works when you're wearing gloves.



#### HEAR AND BE HEARD CLEARLY IN NOISY AND WINDY ENVIRONMENTS

Thanks to the industry-leading volume, clarity, and noise suppression features, as well as the advanced dual-microphone system, you can communicate clearly no matter what is happening around you. Whether you are outside in the howling wind or next to heavy machinery, your voice will always get through.



#### TAKE CARE OF YOUR HEALTH WITH THE RIGHT ACCESSORIES

Protect yourself from damaging and annoying noises with comfortable earpieces and headsets featuring superior audio quality and noise suppression.

# CONNECTED AND SECURE OIL & GAS OPERATIONS

## CONNECTIVITY IS **ON**

FROM EXPLORATION, TO PLATFORMS, AND IN THE OFFICE, IT IS CRITICAL THAT THE RIGHT INFORMATION GETS TO THE RIGHT HANDS AT THE RIGHT TIME. WITH THE USE OF A SMART DEVICE, YOU AND YOUR TEAM CAN ACCESS DATA AND INTELLIGENCE WHEREVER YOUR WORK TAKES YOU.



### REMAIN CONNECTED AT ALL TIMES

Your workers can remain connected through any network thanks to Ion's onboard DMR, WiFi, and LTE connectivity. Ion's intelligent technology can switch between networks to maintain connectivity at the edge of coverage. Authentication, state, talk groups, and encryption are saved without interruptions or reboots.

### LEVERAGE CONVERGENCE TO ITS FULL POTENTIAL

With an always-on connection, Ion can make you more productive with voice and data available whenever you require it. Ion lets you review and reply to your emails, share digital files such as images and documents and engage in push-to-talk (PTT) communications.



### BENEFIT FROM INTEGRATED GPS

MOTOTRBO Ion has onboard GPS, GLONASS and GALILEO location services which can share location information across any network, locating staff in the field to keep them safe and to keep you informed of their progress.



### BETTER CONNECTIVITY WITH BLUETOOTH 5.0

With Bluetooth 5.0 technology built into Ion radios, better speeds and reach are possible in data transfers. Bluetooth 5.0 enables concurrent connections, enabling connectivity to accessories and access points at the same time. Bluetooth 5.0 on Ion allows indoor location tracking, ensuring workers can be located when emergencies happen.





## CONNECTED AND SECURE OIL & GAS OPERATIONS

### UPTIME IS



#### ACCESS FIELD INFORMATION TO OPTIMISE DECISION MAKING

MOTOTRBO Ion incorporates a complete ecosystem of voice, video, analytics, software and services to keep you fully informed of any situation. Whether there is an issue with a pipeline, platform, equipment, or even safety compliance, you can respond quickly with all the information you need.



#### LONGER BATTERY LIFE

MOTOTRBO Ion's standard IMPRES™ 2 battery lasts up to 17 hours of normal use, keeping your radio in the field longer. High-capacity Ion batteries can last up to 25 hours in the same situation. With the capability of working in temperatures as low as -20 °C and as high as 60 °C, they are also able to go wherever you need them. Batteries can be swapped easily, meaning devices can spend more time in the field and less time sitting in chargers.



#### PLAN MAINTENANCE STRATEGICALLY

Implement Industrial IoT and connect it to your communications system to get early warning notifications on your Ion device. Issues can be quickly noticed, allowing engineers to analyse the root cause, diagnose failures, determine the severity of the case, and take actions to resolve the issue. Working in this way, you will fix issues before they become problems that could significantly affect your operations.



#### SUPERVISE AND SOLVE YOUR FLEET'S PROBLEMS REMOTELY

With RadioCentral and your mobile device management solution implemented, all data received from the devices will help you diagnose and solve issues with minimal downtime. Our data transmission and device-management service can analyse performance data to help you make better decisions about your devices and network, from managing capacity to scheduling device and system upgrades.



## CONNECTED AND SECURE OIL & GAS OPERATIONS



## SECURITY IS **ON**

**ALONGSIDE STAFF SAFETY, INFORMATION SECURITY IS ANOTHER CRITICAL ASPECT OF OPERATIONS FOR OIL AND GAS COMPANIES. WITH MOTOTRBO ION, YOU CAN REDUCE THE RISK OF DATA THEFT AND ENSURE THAT SENSITIVE INFORMATION REMAINS PROTECTED.**

- + Remote activation for emergencies
- + Remote kill and stun for lost and stolen radios
- + Data is encrypted at rest and in-transit
- + Transmission and reception of event evidence
- + Interoperability with other Private, Emergency and Public Safety networks with WAVE PTX
- + Video safety for perimeter control
- + Inbound and outbound vehicle and staff control.
- + Data analytics to know and anticipate situations.
- + Multiple layers of security to prevent unauthorised device access and malicious activity
- + Real-time device threat monitoring
- + Trusted Execution Environment for apps and device functionality

MOTOTRBO Ion prevents malware, phishing and other malicious activities with encrypted data stored in transit, protection on all connectivity interfaces (LMR, WI-FI, LTE/4G, 3G) and user profiles separated (work / person) to actively protect information.



MOTOTRBO ION KEEPS YOU CONNECTED TO THE BEST OF BOTH WORLDS. FIND OUT HOW YOU CAN GET THE BEST OUT OF YOUR CORPORATE DATA GENERATED EVERY DAY USING A SINGLE DEVICE. CHANGE THE WAY YOU OPERATE AND INTEROPERATE WITH SMART CONNECTIVITY SOLUTIONS FOR OIL & GAS AND TRANSFORM BUSINESS STRATEGY AND OPERATIONAL REALITY.

### DEVICE SECURITY

MOTOTRBO Ion helps prevent hostile code from running on the device and unauthorised users from gaining access to the device. By utilising a Trusted Execution Environment (TEE) to separate critical functions and services from the rest of the device, signed firmware, single- and multi-factor authentication methods, Ion keeps your device free from malicious software and users.

### APPLICATION SECURITY

MOTOTRBO Ion enables secure operation by helping to prevent malware, phishing and other malicious activity. Mobile Device Management (MDM), Google Play Protect and application signing keep the software running on your device safe from outside access.

### DATA SECURITY

MOTOTRBO Ion safeguards critical data at rest and in transit. It features modern key store technology, profile management, customisable device policies, and the latest security methods for network and accessory connectivity, keeping your on-device and in-transit data private.



# MOTOTRBO ION



## OIL AND GAS OPERATIONS ALWAYS **ION**

For more information, please visit  
[motorolasolutions.com/ion](http://motorolasolutions.com/ion)

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Availability is subject to individual country law and regulations. All specifications shown are typical unless otherwise stated and are subject to change without notice.

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