



AUGMENTED REALITY SOLUTIONS FOR

REMOTE WORKERS

DIGITECH® FROM DIGIGONE®

AUGMENTED REALITY SOLUTIONS ENABLED BY SATELLITE CONNECTIVITY



DIGITECH® FROM DIGIGONE®

Providing remote oil and gas, mining and utilities workers with hands-free collaboration and connectivity tools wherever they are.

YOUR CHALLENGE

Remote workers from a variety of industries brave hostile environments to perform critical activities. Engineers conducting well-head maintenance, fixing mining machinery or attending to outages on remote grids work in some of the world’s most remote regions and do essential jobs that help companies function. But skilled as most engineers are, they can’t be expected to have the answer to every problem: sometimes specialists are required.

However; it is impractical to have every specialist you might need on-site at all times so virtual collaboration becomes important. The problem is in remote areas reliable connectivity is often a challenge. This means communicating back to base to send data diagnostics, to ask for technical guidance or to ask for medical help can be impossible. The consequence of not being able to send data diagnostics back to base might be

that a company is not able to tell there is a problem with a pipeline. The inability to get real-time technical guidance means that an expert will need to be flown in from thousands of miles away to mend a fault. The result of not being able to call for medical help could be far worse.

To compound matters, a laptop isn’t the ideal device for collaborating with colleagues thousands of miles away. An engineer needs their hands free to use to inspect, build or fix their asset, and try typing on a smartphone with oil all over your hands...

OUR SOLUTION

The good news is that augmented reality (AR) solutions enabled by satellite connectivity are helping companies overcome these challenges, enabling real-time diagnosis of maintenance issues with equipment and support of maintenance personnel, from anywhere in the world. Inmarsat solution provider DigiGone’s digiTech solution provides the perfect platform for collaborating remotely in areas with unreliable connectivity, combining a rugged hands free headset, its cutting-edge proprietary

software and ultra-reliable connectivity from Inmarsat. Utilising the RealWear® HMT-1 headset, the solution allows remote crews to livestream activities from their onsite perspective, enabling remote collaboration with subject-matter experts and the ability to get an extra set of eyes on technical issues. The solution is also highly secure, as all video, texting and file transfer capabilities are encrypted end-to-end, rather than being routed through third party servers.

Crucially, the solution is underpinned by Inmarsat’s BGAN service, which operates on its L-band network and provides the ultra-reliable, mobile connectivity needed to backhaul video anywhere on earth – all with a satellite terminal smaller than a laptop. Key to bringing together the hardware and satellite connectivity is DigiGone’s compression technology, which reduces the streaming bit-rate in order to allow cost-effective transmission of data over satellite before uncompressing it the other end. This means quality video footage is delivered to the expert without compromise in terms of high costs or low portability of the satellite terminal.

The end result means technical experts can virtually collaborate with remote workers from thousands of miles away. This ensures detailed inspections can be carried out so that potential faults can be remedied before they cause bigger issues down the line. It means that breakdowns can be fixed so that down-time is minimised, saving money operationally and through reducing the need for an expert to fly in. Finally, it means an injured party can be treated with guidance from a trained doctor in the potentially critical early aftermath of an industrial accident.

OUR SOLUTION IS FOR YOU IF

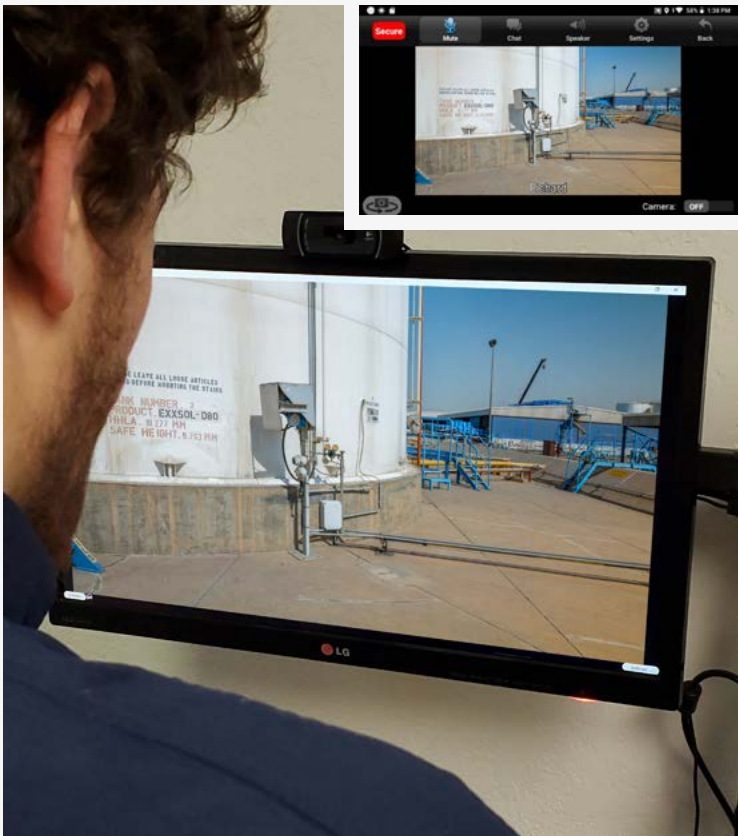
- You want to reduce downtime, bolster productivity and improve health and safety.
- You want to reduce the number of people travelling to remote locations.
- You have teams working in remote locations without reliable connectivity.

BENEFITS

- **Allow technical experts and inspectors to virtually collaborate** with teams for equipment repairs and regulatory compliance.
- **Save time and money** by virtually bringing a subject matter expert to the source of the problem.
- **Protect remote crews** by providing medical care anywhere, at any time.

FEATURES

- **100% hands free, voice command control**, provides optimal safety and situational awareness in any environment.
- **Powerful** noise cancellation audio and LED screen.
- **Share camera/view simultaneously** showing activities from their onsite perspective.
- **Record video or take pictures** using voice commands, which can be saved for future use.
- **Industry leading** video compression and collaboration software.
- **Water and dust resistant** headset, designed to work with standard hard helmets, bump caps and safety glasses and at extreme temperatures.
- **End-to-end encryption**, keeping your operations secure at all times.
- **Ultra-reliable** BGAN satellite connectivity from Inmarsat.



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