



# SMART MOBILE

## Product Overview:

**Working Smart** is the term used for those who utilize their mobile equipment to increase operational excellence. In the world of Marine optimization this means:

working smarter reduces the time for the superintendent, Operator or Maintenance manager through problem solving, remote inspections and onsite conferences.

Those who work smart are constantly focused on the task at hand. To accomplish this high level of efficiency, Client needs access to required information when this information is needed, regardless of the location. Previously such operational efficiency was not possible in zones with an explosion risk, Marine or Harsh environments, because a regular consumer smartphone or laptop in combination with a headset is in fact an ignition source due to its electrical circuits, or will damage when it drops or simply does not work because of lack of connectivity

## Product Features:

- *IP68 and or Intrinsically Safe Zone, certified for ATEX, IECEx and CSA is the technology enabler*
- *The Mobile Smart Worker concept enables the integration of Bluetooth enabled devices*
- *Gas detection.*
- *Radiation detection with the separate radiation scanner*
- *Man Down detection*
- *HD 720p full duplex video streaming with separate Helmet or Handheld camera*
- *Automatic incident reporting*
- *Reduced emergency response time*
- *Push To Talk (PTT)*
- *Permit to Work*



The **Mobile Smart Worker** concept enables the integration of Bluetooth and Wi-Fi enabled devices to the smartphone. The result is an ever-expanding set of features.

Today's feature set already contains a Lower Explosion Limit (LEL) meter, external video camera, Cloud storage and connected apps, NFC and RFID readers, Radiation detection, GPS localization and a headset with push to talk function. Customized applications are an extra feature.

These peripherals have their own distinct value in typical Marine, Oil & Gas and can replace existing stand-alone systems, thereby optimizing cost of ownership, integration and safety.



*“With increasing operational costs in all industrial verticals and complex systems it is quite hard to problem solve defects on remote locations. Also more challenging operating environments such as arctic climates, deep-water reservoirs, open Oceans and more challenging environments are asking for technology.*

*But also the “standard” works need more and more onsite assistance and be update regarding the whereabouts of the worker in the field.*

*A key industry challenge is how to reduce exposure to staff that work at the production facilities where these difficult situations. That means exploring step-change new concepts and technologies that reduce the need for people to be in plants or other remote facilities.*

*Communication from work floor to control rooms, collaborative work environments or to third parties’ new smartphone technology brings the solution. Now on a typical industrial surface facility, workers execute tasks throughout the entire facility, often in hazardous areas.*

**Reliable personal audio/video communication technology helps reducing exposure to plant and Maritime worker, enable a step change in ‘buddy’ concepts, can shorten the in-plant work and reduce the number of trips to and into facilities or Offshore facilities”**



## Working Smart Case

Picture this, the Chief engineer has a problem with a generator set or for that matter any of the on-board critical equipment. Vessel is sailing far away and the problem is not easily detected. The Chief engineer consults the Superintendent as part of the procedure. The Superintendent contacts the manufacturer and asks for urgent assistance.

*This is where the smart worker concept of Bureau Inspector comes in.*

The second engineer wears a head camera linked to his mobile device, the device is connected to the LAN network and passing the video and audio signals via a low bandwidth Satellite uplink and goes to the generator set, the chief engineer stays in the control room, connects to both the second engineer and the superintendent on shore. The superintendent contacts an onshore specialist. The Chief engineer can now share the problem information. Shown from the camera with the superintendent and manufacturer onshore. Also the captain can observe via the local LAN network on his PC and intervene where necessary.

### Why?

This all saves downtime, the specialist does not have to be flown in to the job. Now prior knowing exactly what the engineer is going to do. Also the right spare parts can be delivered to the vessel before the arrival of the specialist.

### What do you need?

You will need WIFI in the critical technical area's as the engineer has to be able to move around. B-com can tailor make the Wi-Fi solution in any part of the vessel required. Depending on the hazardous zone (if any) the device and Routers must be certified for the particular area. To enable the shore connection there has to be uplink to the internet.

