

# KWESST Phantom™ Tactical Multi-Function Electro-Magnetic Spectrum Operations (EMSO) System



The KWESST Phantom™ Tactical Multi-Function Electro-Magnetic Spectrum Operations (EMSO) System consists of two configurations:



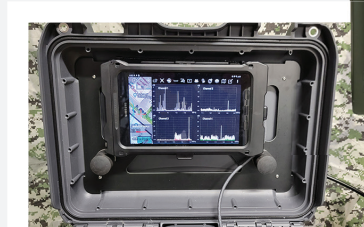
Phantom: Manportable Configuration



The **KWESST Phantom™ EMSO System** was invented out of necessity as the military electromagnetic (EM) spectrum has become its own battlespace domain. Phantom™ is a multi-function compact, lightweight, selectively expendable EMSO system with three main functions:

- A real time spectrum analyzer that interfaces with operator End User Devices (EUD) to display show real time representation of current EM activity in the local tactical environment.
- A full power emitter/transmitter that mimics the EM footprint of friendly tactical units and entities thereby presenting an adversary with a misleading, complex, and confusing picture of friendly force locations, movement, and intent. Essentially Phantom™ is an EM Decoy.

PhantomX –  
Expendable  
Configuration



RTSA display

# KWESST Phantom™ Tactical Multi-Function Electro-Magnetic Spectrum Operations (EMSO) System



## Phantom™ Features and Benefits

| Features   | Benefits   |
|--|--|
| Integrated with Android Team Awareness Kit (ATAK) Battle Management Application with internal GPS            | <ul style="list-style-type: none"><li>• <i>Intuitive operator interface</i></li><li>• <i>Path to integration with NATO command and control systems</i></li><li>• <i>Geographically based tactical information display</i></li><li>• <i>Improved accuracy and timing over solutions with external GPS</i></li></ul> |
| All components are mature, commercial-off-the-shelf (COTS) in a patented configuration                       | <ul style="list-style-type: none"><li>• <i>Reliability</i></li><li>• <i>Affordability</i></li></ul>  |
| Operator programable over four channels simultaneous transmit RF frequencies from 70MHz to 2.7 GHz Rx and Tx | <ul style="list-style-type: none"><li>• <i>Ability to emulate all forms of tactical units and emitters on the battlefield</i></li><li>• <i>Tactical flexibility and adaptability as the situation evolve</i></li></ul>   |
| Low Size, Weight, and Power (SWaP)   | <ul style="list-style-type: none"><li>• <i>Ideal for operations at tactical edge – below battalion level</i></li><li>• <i>Little logistics burden</i></li><li>• <i>No need to mount in platforms such as vehicles or aircraft</i></li><li>• <i>Enables small units with organic EMSO capability</i></li></ul>      |

## Contact Us

**KWESST Micro Systems Inc**  
155 Terence Matthews Crescent, Kanata, ON  
K2M 2A8 CANADA  
c/o  
**Mr. Rick Bowes**  
Vice-President Operations  
[bowes@kwesst.com](mailto:bowes@kwesst.com)

