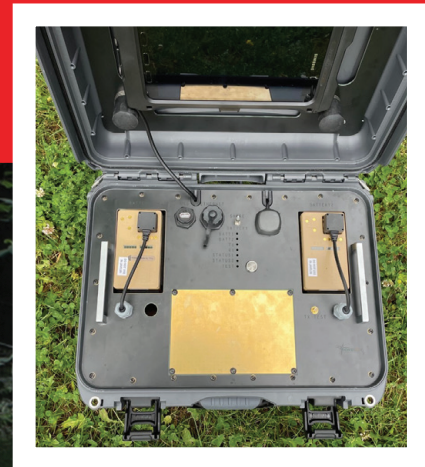


KWESST Phantom™ Tactical Multi-Function Electro-Magnetic Spectrum Operations (EMSO) System



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



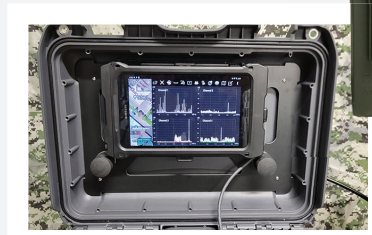
Phantom: Manportable Configuration



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 small unit “degraded communications” trainer designed to provide a complex, noisy EM environment for ground unit training. It can also function as a basic tactical communications jammer.
- 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">• <i>Intuitive operator interface</i>• <i>Path to integration with NATO command and control systems</i>• <i>Geographically based tactical information display</i>• <i>Improved accuracy and timing over solutions with external GPS</i>
All components are mature, commercial-off-the-shelf (COTS) in a patented configuration	<ul style="list-style-type: none">• <i>Reliability</i>• <i>Affordability</i>
Operator programable over four channels simultaneous transmit RF frequencies from 30MHz to 2.7 GHz Rx and Tx	<ul style="list-style-type: none">• <i>Ability to emulate all forms of tactical units and emitters on the battlefield</i>• <i>Tactical flexibility and adaptability as the situation evolve</i>
Low Size, Weight, and Power (SWaP)	<ul style="list-style-type: none">• <i>Ideal for operations at tactical edge – below battalion level</i>• <i>Little logistics burden</i>• <i>No need to mount in platforms such as vehicles or aircraft</i>• <i>Enables small units with organic EMSO capability</i>

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

