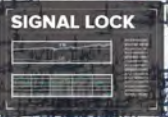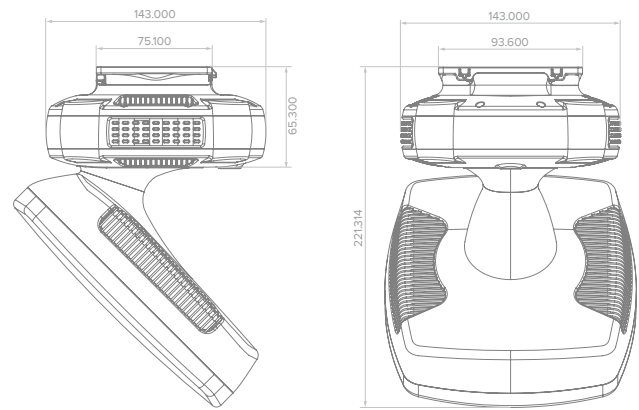SIGNAL LOCK

SIGNAL LOCK

SIGNAL LOCK

ECHO™

CELLULAR HANDSET
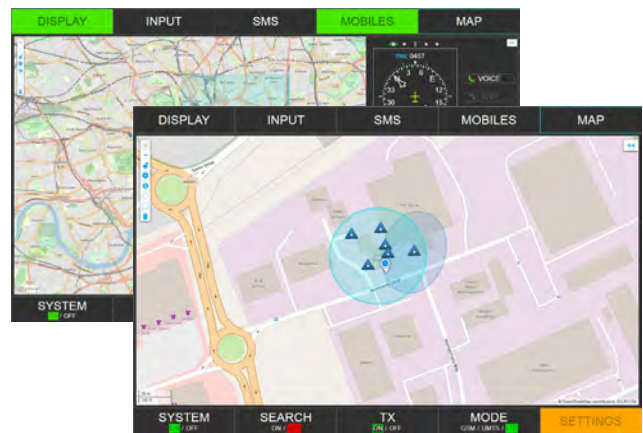### GEOLOCATION AND COMMUNICATION

Robotics Centre brings the Smith Myers award winning ARTEMIS™ software suite to the FLIR SkyRanger™ R70 and R80D SkyRaider™ platforms with **ECHO**. ECHO extends the FLIR next generation payload family with a fully integrated low SWaP-C package for cellular handset geolocation and communication (2G, 3G, and 4G, with 5G in development).

ECHO turns any cellular handset into a location beacon, even when there is no cellular network present. Handsets can be accurately located and mapped individually or on a mass scale. Communicate directly with located handset(s) via SMS. **ECHO** is designed to anonymise personal information making it quickly deployable.

ECHO can be used as a stand-alone system or in combination with other Smith Myers supported platforms (e.g. body-warn, vehicle mounted, manned aircraft solutions) networked together to a central command centre for full situation awareness.

ECHO supports Smith Myers' common web-based multiplatform user interface with no requirement for re-training between platforms.

Search and Rescue

Quickly locate the mobile phone of a person in distress, whether operating in local network coverage, poor network coverage, or no coverage at all.

ECHO features **ECHO CNX**™ a FLIR Mission Control System (MCS) plugin designed to provide SkyRanger R70 and R80D SkyRaider pilots enhanced target discovery, acquisition, and geolocation during **ECHO** missions.

Specifications

Weight: **1.04kg (2.29lbs)**

Operating Temperature: **-20°C to 50°C (-4°F to 122°F)**

Output Power: **120mW (Peak)**

Operating System: **LINUX**

Internal Memory: **32GB**

Ethernet: **Yes** (FLIR SkyRanger/SkyRaider Network Integrated)

Wifi: **Yes** (FLIR SkyRanger/SkyRaider Network Integrated)

Browser UI: **Yes**

Multilanguage: **Available**

Laptop: **Yes**

Border Security

In areas of particular focus draw a geofence to quickly identify and locate handsets in specific area, ignoring handsets outside of the geofence. Used in areas with complex terrain, water channels, borders, natural disasters, etc.

Natural Disasters

Quickly locate and map all mobile phones in a disaster area. Send text messages to all mobile phones in the area. Receive text messages and calls from those who need assistance.

Situational Awareness

Maintain situational awareness where traditional SAR sensors can fail. In addition to those in distress, SAR teams can be equipped with Artemis enabled mobile phones allowing for real-time team mapping and communication through the ECHO system.

Robotics Centre

works hand-in-hand with government and industry to deliver custom high-quality unmanned system integrations and bespoke payload solutions pushing the boundaries of possibility in solving customer challenges.

In partnership with Smith Myers, Robotics Centre leverages over 30-years of specialisation in design, development, manufacturing and support of application specific cellular handset geolocation for Law Enforcement and Search and Rescue operations.

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