



IMPACT

DATASHEET – DELTA SUITE NOMAD

Overview

The NOMAD version is the « field » declination, running on Windows, of the DELTA SUITE, which is used by the French Special Forces since 2015.

This version is composed of a set of basic functionalities and specific applications allowing to facilitate and prepare navigation, optimisation of the use of external sensors (Laser Range Finder, AIS management, GPS management, inertial units management), monitoring the common operation picture and to use real-time video streams.

In terms of communications, the exchange of data between different stations equipped with the DELTA SUITE is possible if they are connected through one of the many compatible communication media (LOS, BLOS, SATCOM, LTAC, MESH, MIMO).

DELTA SUITE allows increased interoperability with third-party systems, through compliance with military and civilian standards and protocols (VMF through IDM modems, CoT, FFI/MTF, MAVLINK, STANAG 4609, REST API, POP, SMTP and soon NMEA2000, STANAG 4586, STANAG 7023).



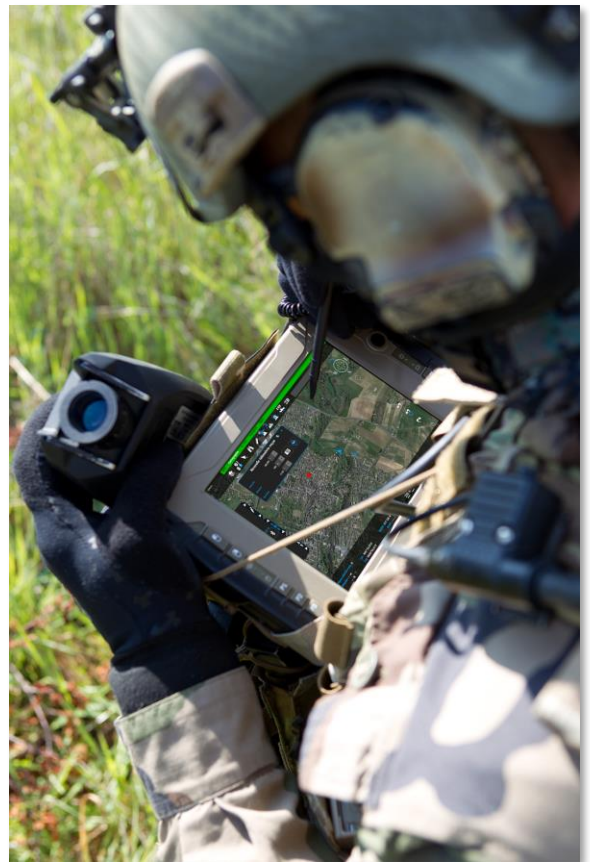
Basic functions

In order to allow a quick synthesis of the most important information, the user has a permanent access on the main display, and the hereafter functions and information:

- Display of coordinates (MGRS, long/lat...);
- Altitude and elevation (meter and feet);
- Graphical scale (metric/imperial);
- Local / Universal time;
- Basic and advanced search tool;
- Map interaction tools;
- 2D / 3D view toggle;
- Azimuth and distance measurement tool;
- Geofencing tool;
- Monitoring tool.

Mapping: data integration and terrain analysis

- Drag and drop import capabilities of several geographic data formats: GeoTIFF, JPEG 2000, ECW, DTED/DMED, Shapefile, KML/KMZ, NITF, S57, USRP, ASRP, Mr Sid;
- Drawing of vector objects;
- Slope profiles calculation;
- Line of sight calculations in 2D or 3D, linked to moving objects.



Non contractual document

IMPACT : Société par Actions Simplifiée Unipersonnelle au capital de 15 000€

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Navigation module

The DELTA SUITE NOMAD makes the navigation in real-time easier:

- GPS and inertial system (SAFRAN and IXBlue) Connexion and automatic configuration;
- Retractable pull-tab with all the useful navigation information (advanced navigation feature, compass, GPS status, heading, speed, distance and time to the next waypoint, etc.);
- Navigation preparation: calculation (and average) of consumption, time and speed according to the nature of the terrain
- Waypoints management, roads, tracks and POI (Point Of Interest);
- Geofencing tool (configurable alert triggering when entering or exiting zones);
- Track recording and Track back;
- Resetting of the inertial unit during navigation;
- Guidance to a moving point.



Laser Range Finder (LRF) module

The DELTA SUITE NOMAD allows to manage Laser Range Finder:

- Wired, Bluetooth and WiFi connection;
- Management of telemetry with reception of azimuth, distance and elevation information (Vector 21, 4nite, Moskito, PLRF, Moskito TI et Jim Compact);
- Management of telemetry in "picture" mode with extraction of information from the image sent by the LRF (Moskito TI et Jim Compact);
- Remote video and control of LRF directly from the DELTA SUITE NOMAD (Moskito TI et Jim Compact).

Full Motion Video (FMV) tool

Impact player, allow to operate simultaneously multiple real-time video stream from multiple different sensors (UAV, aircraft, etc.). The flow video treatment related to its metadata (NATO STANAG 4609) can display, in the DELTA SUITE, all the information related to the target, the aircraft position, the camera footprint and line of sight.

Additional tools allow to:

- Display vector information in overlay directly in the Player (augmented video function);
- Report observations / draw directly in the Player;
- Footprint and Zone whitening visualisation (scanning mode);
- Record Video Stream;
- Capture video and annotate it in the DELTA SUITE's integrated drawing tool.



Options

Optional modules can be added to extend the functionalities offered by the DELTA SUITE.