

PRODUCTS AND SYSTEM SOLUTIONS

Overview Applications







DEVELOPING SOLUTIONS FOR THE TASKS OF TODAY AND TOMORROW

Defence

Whatever is your challenge you name it and we'll master it /





Land



iCOMBANA

INS/GNSS Solution Inertial navigation & guidance systems for north finding, true heading determination, stabilisation and motion analysis - e.g. for combat vehicle applications

iPRENA

INS/GNSS Solution High performance inertial navigation and surveying systems for military applications, true north reference, fast and accurate gyro compassing

SULONA

INS/GNSS Solution Powerful MEMS based systems for inertial navigation, dead reckoning, surveying, guidance and control





Mortar Alignment Systems

iEMAS

High precision Gyro compassing Mortar Alignment System with MRSI (Multiple Round Simultaneous Impact) capability

iLMAS

Lightweight Mortar Alignment System, with GNSS and/or Gyro based true north for 81 mm and 120 mm

iTAHS

Ultra lightweight Mortar Alignment System for 60 mm





Air - Avionics



iNAT-RQT-400x iNAT-FSLG-01

Hybrid INS/GNSS systems with MEMS, FOG or RLG sensors iAvionics Suites with INS/ GNSS, Magnetometer and AirData Computer

iNAT-CFM



iNAT-M300

Navigation
Stabilisation
Flight Guidance
Flight Motion Detection
Fixed and rotary wing A/Cs and UAVs
MIL-STD qualified
Customized Solutions





Sea & Subsea

Navigation, Guidance & Control Systems for Ships, UUVs, Submarines, Torpedoes

Stabilized Pedestals and Gimbals for Antennas and Naval Weapons

Deep Sea Sensors



Most accurate autonomous True North and Navigation



Strapdown AHRS in FOG Technology for Heavy Weight Torpedoes **i**IPSC-PT-xx

Gyro stabilized Pan-Tilt Platforms for mobile and stationary applications, for standard and customer defined payloads

iTAHS

Sealed 3D Magnetic/Inertial Sensor for Towed Subsea Antennas. For up to 3'000 m Depth





Transfer Alignment & Gun Calibration Systems

Transfer alignment between sensors and effectors, on static and moving platforms

Improvement of weapon acuracy by calibration of kinematic chain

Alignment of missile protection systems on mobile carriers

Easy to operate, independent from external references

iPEGASUS-HP

High Precision Gyro Based Transfer Alignment Systems

> 0.005° relative 3D accuracy@10 minutes

> > 18 LE

iPEGASUS-LT

Gyro Based Transfer Alignment System - Lite

0.02° relative 3D accuracy @10 minutes

2 mil sec lat absolute true north





STABILIZATION & CONTROL

Detection – Surveillance – Tracking

iIPSC-MSG-xx

Gyro stabilized electro optical tracking systems as general-purpose platforms or customized solutions. Observation and surveying platforms with different and also customized features

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iIPSC-PT-xx

Gyro stabilized Pan-Tilt Platforms for mobile and stationary applications featuring TV, IR, high-speed camera, laser range finder, optical target tracker, antennas



MAR





STABILIZATION & CONTROL

Customized Solutions

iIPSC-PT-xx

Gyro stabilized Pan-Tilt Platforms for mobile and stationary applications, for standard and customer defined payloads

iIPSC-ANTRAD

Multi axes stabilizers with high angular resolution and high dynamics, for land, sea and air applications

iIPSC-TAP

Two-Axes Platforms for mobile and stationary land and sea applications, for several payloads and in different configurations







ILIANE

LiDAR aided Navigation Equipment

LIANE-LI

Accuracy of about 0.1 % of distance travelled, independent on mission duration (without any aiding, no GNSS, no odometer used)

Autonomous Localization & Navigation Map Acquisition & Updating Precise Infrastructure Surveying, bridging of long and systemic GNSS outages

iLIANE-LIGO

Seamless Integration of Imaging LiDAR / IMU / GNSS / Wheel Odometer. Most accurate Vehicle Localization even in fully GNSS and Radio denied Environment







iTHESEUS

Infrastructure-independant Pedestrian Navigator

iTHESEUS

Localization Assistance System for Special Forces. Accuracy about 1% of total distance travelled, independent on mission duration and on any Infrastructure (neither GNSS nor WiFi nor beacons required)





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