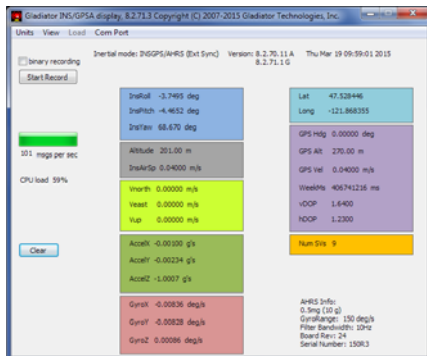# SOFTWARE DEVELOPMENT KIT

LandMark™ 10/20/30/40/50 (INS/GPS - VG/GPS - GPS/AHRS)

INS/GPS Data at user-selected 100 Hz Data Rate

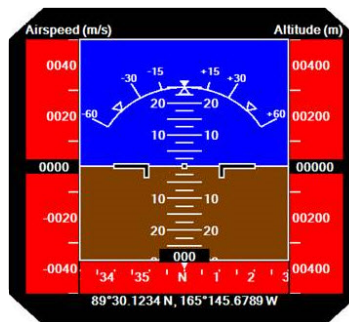*Software Development Kit*

Included in SDK

- ✓ SKD User Manual
- ✓ RS485 to USB Converter
- ✓ Cable to Converter Board
- ✓ Cable to IMU
- ✓ SDK Software
- ✓ RS485/RS422 to USB Interface
- ✓ Programming & Self Test Switch

Export Classification: Commerce ECCN7A994 (NRL)

GPS/AHRS Data at user-selected 100 Hz Data Rate

GUI Attitude Indicator Display

Inertial Unit to CPU Interface Module

The LandMark™ Software Development Kit (SDK) is an optional product to assist first time users of the LandMark™ in order to facilitate a rapid setup, test and use of the unit.

Features

- Begin outputting data in minutes using the LandMark™ turnkey SDK
- USB Power direct from PC or LandMark™ remote power supply
- All cabling, Interface connectors & software included and ready for use
- Easy integration of direct inertial RS485/RS422 to PC's USB interface
- Includes PC display software
- Data record capability
- User defined bandwidth and filter settings
- Selectable Data output rate

Overview

The LandMark™ SDK includes all cabling required to interface directly from the MEMS RS485 interface to a PC's USB interface. The converter cable includes battery powered power supply (there is also wiring on the cable to enable the user to supply their own +3.0V to +4.2V power) and a self-test switch. The battery power supply uses three 1.5 Volt AA batteries (included with shipment) and supplies user battery power on the IMU for about 19 hours typical.

PC Display Software

Enables users to display each channel of rate, acceleration and temperature as well as to monitor Self-Test parameters. The software also enables the user to record data sets of their choosing via .CSV format for export in Excel or other user database. Additional features allow user selectable setting of the bandwidth filter and output data rate.

Support

Please contact your local Gladiator Technologies Representative for in-country service and support.

Additional software updates and documentation can be found on our website under the product page.

LKD Aerospace, Inc
8020 Bracken Place SE
Snoqualmie, WA 98065 USA
Tel: 425.396.0829 Fax: 425.396.1129
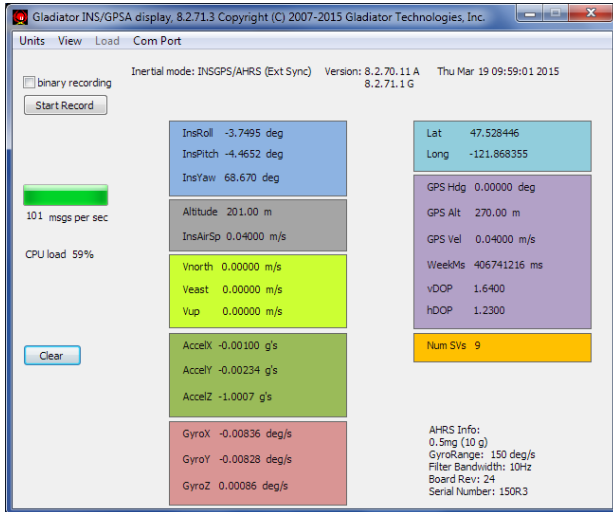Email: sales@gladiatortechnologies.com
Web: www.gladiatortechnologies.com

Gladiator Technologies
Division of LKD Aerospace
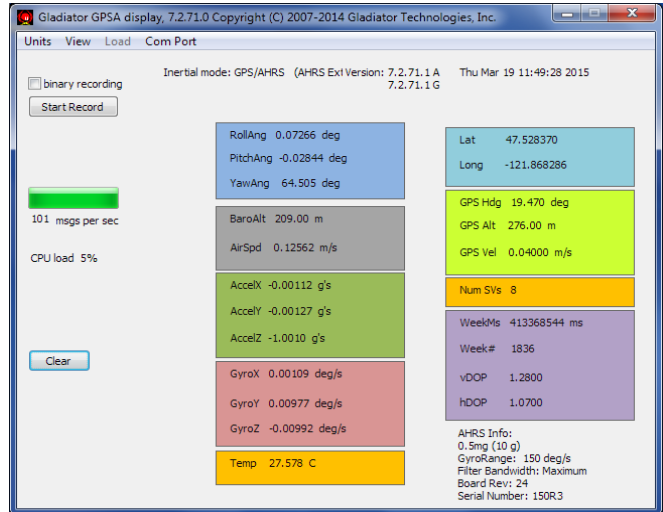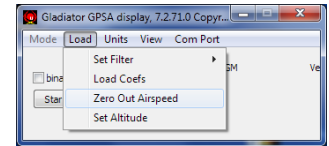*High Performance Inertial MEMS*

Rev.15April7
SN: 001

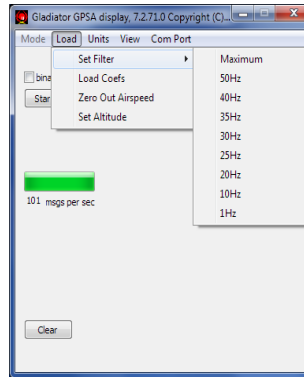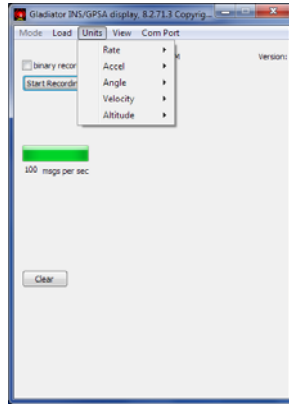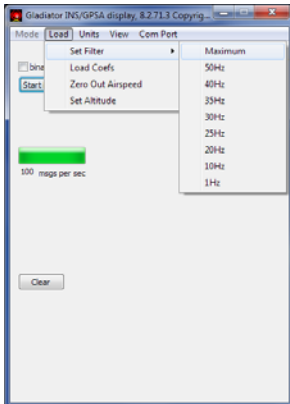# SOFTWARE DEVELOPMENT KIT

LandMark™ INS/GPS

INS/GPS Data in Full Mode at 100 Hz Data Rate

Units of Measure Select
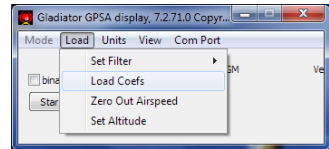

Data Recording

LandMark™ GPS/AHRS

AHRS Data in Full Mode at 100Hz Data Rate

Zero Out Airspeed

Bandwidth Filter

Load AHRS Coefficients
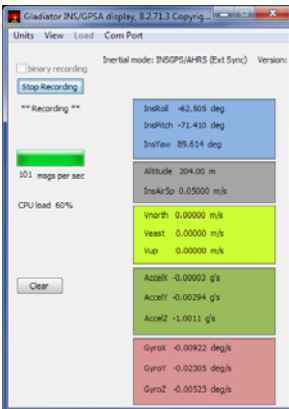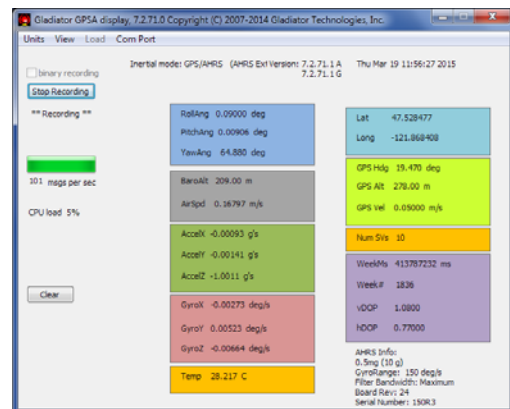
Data Recording

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