

# DEL NORTE Technology, Inc.

Advanced Agricultural Aerial Application Systems

## DGPS Flying Flagman<sup>®</sup> System

**The Most Rugged and Advanced  
Airborne Agricultural System Available**

### FEATURES / BENEFITS

- Advanced 12 channel DGPS Rx
- 10/20 Hz GPS Engine update rate
- 266 MHz Industrial Microprocessor
- Simple Control Head use - CDU
- 4 Alpha Numeric windows on L/B
- 999 Field memories
- 100 Home points
- Internal logging capabilities.
- Racetrack, Parallel line and Squeeze to Middle patterns and more
- 999 break Point memory
- Resume to Break Points
- Skipped line detection
- Automatic Reverse Direction Sensing
- Polygon field entry
- Aerial Mapping and Photographic interface capabilities
- Built in clock
- Date / Time tag
- On ground self-test
- Selection of feet/meters
- Ground speed in MPH, Statute Miles, m/sec. and Knots
- Remote functions on flight stick
- Flow Rate Monitoring, IntelliFlow<sup>®</sup>
- Dedicated Spray Off Control port
- Dedicated NMEA serial port
- Dedicated IntelliFlow<sup>®</sup> serial port
- VGA Color and keyboard ports



The Airborne Ag. system you can BANK ON...

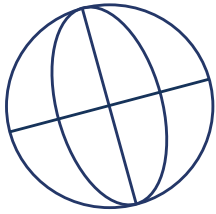
■ The Del Norte Technology, Inc. DGPS Flying Flagman<sup>®</sup> System provides a rugged, waterproof and versatile system for the Serious Airborne Agricultural Pilot and Operator, with Enhancement Options.

■ The System's seamless software will provide a professional solution to the airborne agricultural business with its many complementary hardware and software options, such as the internationally proven automatic IntelliFlow<sup>®</sup> control flow system, the Spray Off interface unit for hopper flow pump control, the IntelliMap<sup>™</sup> I and II color moving map displays and the advanced FliteTrac<sup>™</sup> 2005 post-analysis Multiple Feature Level Software.

■ The advanced Systems software offers a unique suite called Target Flow<sup>®</sup> that provides geodesic polygon management that will control automatically the IntelliFlow<sup>®</sup> control system and provide Variable Flow Rate over required areas. This phenomenal suite also offers the Spray Off / Target Flow Zone (TFZ) controls.

■ Set-up is accomplished by using a menu driven Control and Display Unit (CDU). In addition to the Advanced Airborne Agricultural DGPS features, the core GMU (GPS Measuring Unit) can serve as a local Differential Reference Station.

■ This outstanding System is backed by the Del Norte Technology, Inc. worldwide full one year warranty.



# SPECIFICATIONS

## DGPS Flying Flagman® System

### SYSTEM ENVIRONMENT

- Temperature 0° - 55° ( 32 - 130 F. )
- Vibration: Tested to MIL - STD - 810C.

### PHYSICAL / POWER CHARACTERISTICS

- System weight 24 lbs. ( 10.88 Kg. )
- GMU Dimensions
  - W 8.0 in. ( 20.3 cm. )
  - H 6.8 in. ( 17.3 cm. )
  - D 15.0 in. ( 38.1 cm. )
- CDU Dimensions
  - W 4.2 in. ( 10.6 cm. )
  - H 7.7 in. ( 19.5 cm. )
  - D 1.3 in. ( 3.3 cm. )
- SuperTrac Light Bar
  - W 15.0 in. ( 38.1 cm. )
  - H 2.0 in. ( 5.1 cm. )
  - D 5.5 in. ( 14.0 cm. )
- Power Input
  - 11 to 32 VDC, 40 Watts

### SYSTEM SUPPLIED WITH:

- GMU Mainframe Pentium® 266MHz
- CDU Control Display Unit
- SuperTrac LightBar
- Remote Step Switch and Aux control cable
- GPS antenna and Diff antenna if required
- Diff receiver, can be internal or external
- Cables / Shock Mounts, etc.
- Installation, Operation and Maintenance Manuals

### PERFORMANCE

- Differential Dynamic: 1 Meter CEP
- Update Rate: 10 to 20 times per second

### SUPERTRAC LIGHTBAR

- Pilot Programmable Displays
  - Digital HSI
  - Line / Pass Number
  - Distance Off-Track
  - Distance - to - Go
  - Course Deviation
  - Area Sprayed
  - Ground Speed
  - Flow Volume and more
- Left / Right Guidance
  - Visible in Direct Sunlight
  - On / Off / Dimmer Control (CDU)
  - Programmable Sensitivity
- Course Deviation Indicators
  - Programmable to nearest 0.1 of a degree

### OPTIONS

- Differential Data Sources
  - Satellite L-Band Data / WAAS
  - D-Beacon MF Transmissions
  - Local Reference Station / Tower
  - Portable Reference Station (GMU Mainframe)
- VFD Control Head Display ( Vacuum Fluorescent Display )
- Data Loggers
  - Fast Access Internal Data Logger III ( type II / III )
- Post-Processing Software
  - FliteTrac™ 2005 Windows® 95/98/Me/2000/XP/NT
- IntelliFlow® Flow Control System
  - Flow Turbines ( 0.75 GPM to 400 GPM )
- IntelliMap™ 1 and II
  - VGA Daylight Readable Color Display
- Target Flow® Software Suite
  - Automatic Variable Flow Rate control
  - Spray Off / Target Flow Zone (TFZ) and GSI feature

**DEL NORTE COMMITMENT TO CONTINUOUS QUALITY IMPROVEMENT ASSURES  
ONLY WORLD CLASS SYSTEMS WITH UNCOMPROMISED WORLDWIDE SERVICE.**

*Performance and Service  
you can **BANK ON!***

**CALL: 1-(800)-GPS-FLAG**

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Because of our desire to continually improve products and systems, design and specifications are subject to change without notice.