Precision Guidance.
Flexible Solutions for a wide range of applications.

Our precision guidance, machine control systems and services can be used for a wide range of applications:

**Web-based**
- Real-time tracking
- Web-based log viewing
- Remote access
- Instant file pushing (jobs and logs)

**Machine Control/Interface**
- Automated flow control - constant or variable rate
- Dry gate controller for constant and variable rate control
- On-board real time weather system recording
- Laser altimeter support

**GIS**
- Conversions to popular file formats
- Mission planning
- As-applied spray maps
- Prescription map creation
- Polygon support
- Post analysis software
- Standard GIS file support / conversions and variable rate

**Basic Data**
- Multiple pattern options and flexibility
- Data logging and printable reports
- Multiple mark and waypoint storage
- Last sprayed point return
- Graphic moving map display

Compelling innovation and solutions for agriculture.
Satloc® develops the world’s most advanced GPS Guidance and Flow Control products for the aerial application market. As a technology leader, we offer simple and advanced systems that are versatile, flexible, and easy to use.

Satloc® is a pioneer in the aerial guidance market. And with the addition of technologies from Del Norte and other company acquisitions, Satloc has created the standard for quality, innovation, and service.

As demands on precision applications continue to increase, the successful aerial applicator must keep pace. Satloc has a strong focus and dedication to moving forward with the continuing evolution of aerial applications. Our products aid the pilot with user-friendly software and reliable hardware, increasing productivity through greater job efficiency and improved time management. Satloc now owns over 70 issued or pending patents, and our products are used in over 50 countries.

Whether in the aircraft, in the field, at the airport, or in the office evaluating the performance of the overall aerial business, Satloc provides the most complete tools for the job.

**CORE GUIDANCE TECHNOLOGY**

At the heart of Satloc’s swath guidance systems is a state-of-the-art differentially corrected GPS (DGPS) receiver and antenna. Combined with a customizable lightbar, pilots are able to maintain guidance to sub-meter accuracy.

**The Satloc Receiver Advantage**

With our Crescent® receivers, you’ll never be without a differentially corrected signal. Our receivers support differential signals from a Satellite-Based Augmentation System (SBAS), such as WAAS, EGNOS, MSAS, or GAGAN, OmniSTAR®, or e-Dif®.

In the event of a temporary signal outage, our patented COAST™ technology allows you to use old correction data for an hour or longer without significant degradation of accuracy.

**e-Dif – A Worldwide Solution**

e-Dif (Extended Differential) is an exclusive solution for areas where it is impractical to obtain a differential GPS signal. With e-Dif, you can achieve GPS accuracies of 2-3 feet for 40 minutes or longer (typical) without the need for a differential signal broadcast. e-Dif works by generating internal differential corrections based on your starting location. The differential corrections are modeled over time and applied to the GPS data in order to maintain a very consistent relative position.

**Industry Leading Lightbar Guidance**

Satloc guidance systems feature next-generation lightbars. Our rugged, glare-resistant lightbars feature realistic LED displays, making numbers and letters easier to read than ever before. Other user-friendly features include the ability to adjust the viewing distance angle, brightness, and contrast.

Our lightbars display basic guidance cues - heading angle, cross-track distance, and approach warnings to the target swath or position. In addition, all of Satloc’s guidance systems allow you to select viewing options for the left and right display areas of the lightbar. Satloc lightbars come with 4 customizable display windows. Displayed data is selectable between heading angle, cross-track distance, spray rate, area sprayed, volume remaining, laser altimeter height, speed, and much more.
SATLOC G4

The Satloc G4™ is the most complete and advanced aerial guidance system for aerial applicators.

The Satloc G4 features 9-inch or 7-inch, 16:9 touchscreen options capable of providing faster video graphics as well as the latest in touchscreen technology. Use multi-touch gestures such as pinch-to-zoom, rotate, and press & drag to access information. Experience improved connection speeds for downloading job files, shape files, and prescription maps.

Stay connected with Satloc HQ™, a real-time web-based asset tracking tool that allows companies to track the position and related data of the aircraft.

The Satloc G4 system includes a 9-inch or 7-inch touchscreen, CPU, A21™ antenna, and external L7 lightbar.

Benefits

- Intel Dual-Core i7 processor
- 4 powered USB ports
- 4 GB RAM
- 32 GB optional storage space on Mini SATA drive
- Windows 7 64-bit operating system
- 9-inch, 16:9 ratio touchscreen
- Internet and video capabilities
- Satloc G4 IntelliTrac™ software allows unlimited waypoints, polygon points, maps and jobs
- Stay connected with Satloc HQ™ asset tracking system
- Select from constant or variable rate, liquid/dry flow control
- Dual flow
- Optional 7” Display with IntelliFlow
- High quality metal connectors
- 4G wireless Internet (optional)
- Receive files onboard from Internet
- Visual indicator on polygon edge
- Hot keys for quick navigator through software
- Data sharing with AgSync and Flight Plan Online™
- Auto spray on/off
- 5 programmable hot keys
- 10 guidance patterns
- 5 customizable on-screen display fields
- Day and night modes
- FAA Digital Obstacle Files
- 4 customizable display fields on the L7 lightbar

INNOVATIVE AND ADVANCED TECHNOLOGY INSIDE
SATLOC BANTAM

The Satloc Bantam™ provides state-of-the-art GPS guidance for aerial applicators. Available with AirTrac™ guidance software, the Satloc Bantam allows you to fly and spray precise patterns using constant rate flow control. This reduces fuel, flying time, and application costs.

The Satloc Bantam lightbar guidance system features a real-time graphic moving map display which shows key features such as swaths sprayed, field boundaries, skips, overlaps, mark points, waypoints, acres applied, and polygons. Bantam also provides visual guidance utilizing the L7 lightbar. The AirTrac software allows you to track acres applied and monitor application rates.

The Satloc Bantam includes a 7-inch touchscreen, CPU with 2 USB drives, 2 GB USB stick, A21 antenna, and external L7 lightbar. Optional 9-inch touchscreen available.

Benefits
- Customizable 7 or 9-inch touchscreen with moving map display
- Compute sprayed area and total area
- Navigate to stored marks and waypoints
- Return to last sprayed point
- Store, analyze, and retrieve field data
- Create and convert Google Earth™ KML files or shape files for viewing on the Satloc® Bantam™
- HQ compatible (Tracking only)
- Programmable switches for swath increment/decrement
- Log to hard drive and transfer data to USB
- Optional real-time tracking through Satloc HQ™ asset tracking system
- Transfer pilot profiles
- Internal simulator
- 9 guidance patterns
- 5 customizable on-screen displays
- Day and night modes

FLY AND SPRAY PRECISE PATTERNS USING CONSTANT RATE FLOW CONTROL

LITESTAR IV

The LiteStar IV™ is Satloc’s entry-level guidance system for aerial applicators. The recently introduced L7 lightbar and intuitive controller will simplify and improve all types of spraying applications. Key features include:

- Back to the basics, low cost solution
- Capture logs and export to USB drive
- Ultra-bright L7 lightbar with four customizable displays
- Expect a quick return on investment with a low cost, reliable option for aircraft guidance
Advanced GPS Guidance for aerial applications

L7 LIGHTBAR
- Four window display
- Easily mounted using existing hardware and cable
- Customized display options
- Compatible with G4, Bantam, LiteStar IV, and some legacy products
- Adjustable for low-light visibility

INTELLIFLOW 2

With the IntelliFlow 2™ control system on board, spray rates will be automatically controlled with an accurate constant flow or a variable rate. The required flow rates can be pilot selected, or PMAPs can be created using Satloc MapStar® desktop software.

Applications include:
- Aerial agricultural crop applications
- Forestry applications
- Demanding eradication suppression spray program
- Size options include 1/2", 3/4", 1 1/2", 2", and 3"

The IntelliFlow 2 system consists of a controller, valve with motor, and meter with magnetic sensor. Multiple sizes and configurations can be chosen for the valve and meter.

Benefits
- Small form factor with ruggedized enclosure
- Fine tune application through rate bump switch
- Display pressure on screen (optional pressure transducer)
- Reduce pilot fatigue due to flow control operation
- Can be set to operate and calculate in standard or metric measurements.
- Optional dual flow for direct injection or operating multiple rates at the same time. IntelliFlow only.
- Maintain droplet size when spraying constant ultra low volume (ULV) rates (with the use of smaller meters and valves).

Automatic liquid flow control system

Variable Rate Prescription Map

Actual Applied
Satloc HQ™ is a real-time web-based asset tracking tool that allows companies to track the position and position-related data of aircraft and other assets, such as spotter vehicles and loader trucks. Combining a cell-based modem with the Satloc G4 aerial guidance system, Satloc HQ provides the ability to more effectively coordinate flight plans, resulting in reduced time and costs.

Satloc HQ is ideally suited for companies that need to track multiple aircraft in flight at the same time. The Satloc-managed web server stores all flight and asset information, allowing customers to view current flight data as well as all historical data from previous flights. Aerial application companies can also provide their customers access to log in via the web interface to view spray on/off, spray rates, and latitude/longitude information to quickly analyze what jobs are being done and when.

Realize greater efficiency and safety through improved flight planning and better ground crew preparation with Satloc HQ.

Benefits
- Track the position and related data
- Effectively coordinate flight plans, resulting in reduced time and costs
- View current flight data as well as historical data from previously completed flights
- Web interface allows users to view spray on/off, spray rates and as-applied data
- Greater efficiency and safety through improved flight planning and better ground crew preparation

MapStar
MapStar is a pre-application mapping and post-application analysis log replay software. MapStar allows you to import/export common GIS file formats, such as ESRI Shape Files, CAD DXF, and MapInfo MID/MIF.

In addition, you can view, analyze, and export log data from any Satloc logging product. MapStar includes support for variable rate applications and prescription maps.

Benefits
- Create a prescription map for variable rate application work, or convert existing Shape Files with flow data
- Increase customer satisfaction – view and print graphical reports by converting data logged with a Satloc guidance system, such as time, date, position at each logging interval, altitude, heading, wind speed and direction, GPS information, mark locations, flow rate, cross-track error, acre accumulation, and more
- Ensure compatibility with standard GIS files – import/export Shape, DXF, and MID/MIF formats
- Analyze your spray/flight path data
- Save time and money – pre-plan your route by uploading GIS maps or manually entering GIS coordinates beforehand
- View and check rates from liquid and dry applications
- Easily generate KML files for polygons, AB lines, non-spray and spray areas
- Use the Google Earth Conversion Utility – Make KML
THIRD-PARTY PARTNERSHIPS

Strategic partners for success

A key to developing and efficiently delivering the industry’s best aerial guidance solutions is partnerships. The strength of these partnerships enables us to provide the industries most comprehensive and innovative aerial guidance systems.

AgSync

AgSync is used with all AgJunction aerial guidance systems.

Spray more acres with AgSync software

- Aerial Application Maps
- Field Database
- As Applied Verification Maps and Reports
- CDMS and Compliance
- Import and Export Field Boundaries Easily
- Streamline Crop Protection and Fertilizer Application
- Synchronize Retailers, Applicators, Growers, and Consultants
- Organize Pilots and Inventory

From Mapping to Job Scheduling to Billing, Chem-Man Online is a premier software solution for aerial applicators.

Billing and Mapping Interface

- Mapping, Job scheduling, and billing interface
- Schedule Jobs, calculate loads, generate work orders, and creates invoices
- Uploads log files for displaying as-applied maps
- Access anywhere with any Web device
- Maintains applicator’s commissions, payments and balances
- EPA chemical database and compliance tracking and label checking
- Inventory tracking including Excel options
- Instant variable rate file conversion for prescription work
- Complete Accounts Receivable program
- Uploads to QuickBooks

AgLaser

AgLaser units are compact, rugged, laser distance range finders which can be incorporated to function as an altimeter. Using time-of-flight technology, it measures the time taken for a very short pulse of infrared laser light to travel to a surface (ground or tree tops) and back. The distance to the target is calculated from the time taken to make the round trip.

These altimeters can interface with Satloc products (M3, IntellStar, and G4). Information is recorded to the leg and can be viewed on the lightbar or display.

Other applications include:
- Continuous logged height information to determine distance over canopy for each swath
- Terrain Profiling
- Rate of decent monitor to reduce hard landings
- Height change indicator for helicopters landing on moving vessels

Flight Plan Online

Flight Plan Online™ is an information management system that helps you manage the entire aerial application process - from planning and forecasting with your customers, to creating job orders, scheduling, spraying, reports, records, and billing.

Other applications include:
- Continuous logged height information to determine distance over canopy for each swath
- Terrain Profiling
- Rate of decent monitor to reduce hard landings
- Height change indicator for helicopters landing on moving vessels
### PRODUCT SELECTION GUIDE

*Use this handy product selection guide to choose the system options that fit your needs.*

<table>
<thead>
<tr>
<th>Display</th>
<th>Satloc G4</th>
<th>Satloc Bantam</th>
<th>Satloc LiteStar IV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Customizable 4-window display</td>
<td>✓</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Programmable lightbar display</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Graphic display screen w/moving map</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Touchscreen controls</td>
<td>✓</td>
<td></td>
<td>✓</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Functions</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Parallel Swath Guidance w/Multiple Patterns</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Data logging</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Multiple polygon field storage</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Real-time acreage display</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>GIS file support</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Job and spray area recall</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Flow control compatible</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Constant Rate</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Variable Rate</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Liquid Applications</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Dry Applications</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nighttime flying support</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>USB support</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Laser altimeter support</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Metal connectors</td>
<td>✓</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Internal relays for auto spray on/off</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Internet capable</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Contact your local dealer for more information.