



TRAVICAR

APPLICATION CONTROL FOR AGRICULTURAL PLANES AND HELICOPTERS

MADE IN BRAZIL



INTUITIVE,
VERSATILE AND
RELIABLE.

IPANEMA - AIR TRACTOR - THRUSH - PIPER - CESSNA - R44 - OTHERS



HIGH BRIGHTNESS 2048-PIXEL LIGHTBAR



The lightbar was designed with next-generation hardware and features the latest technology in display resolution. Its display is made of 2048 pixels, which allows you to display up to 6 information fields simultaneously out of 24 data sources in each of the four unique flight phases available – spray on, spray off, approach and navigation. Information such as ground speed, cross track, area covered per swath, estimated time to destination, set point are available among the system data sources. Additionally, you can customize the look and appearance of the displayed data by modifying the font style and character format.

The CROSS TRACK and ANGLE OF INTERCEPT indicator bars can be customized to the pilot's choice as well through selection of bar style, scale range, number of elements, length and spacing.

ANTENNA MODULE DUAL BAND



The TRAVICAR Guide features a dual-band module, which means parallel tracking of satellites + Glonass satellites in a single receiver module. This allows live tracking of up to 24 satellites simultaneously, enhancing your jobs' precision.

INDEPENDENT PROFILE SETTING FOR EACH PILOT

After the system is powered up, the launch screen demands identification of the pilot that will be flying the aircraft. By selecting a profile, all the settings attached to this profile are immediately in effect. All profiles share the same job, regions and other system databases. The profile can be further exported to another TRAVICAR Guide system through a flash drive, allowing the pilot to effortlessly transfer its own preferences and settings to another aircraft without disrupting other pilots' settings.



JOB REPORTS GENERATION



You can anytime export application reports with the entire job's information. The exported content is made up of two files, a ready-to-print .PDF report with the job's totalizers and a preview map of the flight area, and a Google Earth .KMZ file featuring a detailed vector map of the sprayed area that can be viewed in 3D including swath by swath information, flight path and flying height among others.

FLY MULTIPLE AEREAS WITH DISTINCT PATTERNS

The TRAVICAR Guide offers several ways to create areas. You can create areas by importing premade polygons from Google Earth .KMZ/.KML files, by creating a new polygon on-the-fly entering points while flying over, as well as by creating standard rectangle and pivot geometry with an A/B line and either a given width or number of swaths or defining a C point.

Beyond the wealth of area creation modes, the job system allows working with them simultaneously without a hitch, which means you can freely add new areas or remove unused ones while flying the job. You can even quickly switch between areas and fly them even if they use different patterns, as adding and switching areas is so convenient that all it takes is just 3 screen taps.



INTERACTIVE SIMULATION MODULE

The TRAVICAR Guide has built-in support for a gamepad joystick, allowing all the equipment training and pilot experience to be performed on ground with the aircraft engine shut. This exclusive TRAVICAR Guide feature enables an instructor to brief several pilots at the same time, offering full system simulation as if it was truly flying so pilots can get acquainted to whole set of system features such as spraying, guidance and pattern creation effortlessly.



EXCLUSION AREAS



The system allows creation of no-spray or exclusion areas to isolate zones which are not to be sprayed for any reason. These areas are shown in the map as exclusion zones and can be easily added or removed from a job, as easily as the spraying patterns. The system visually warns the pilot to shut off the sprayer when these zones are in a specified range, ensuring a safer job and allowing the system to interface with automatized booms.

WAYPOINT INCLUSION



To further improve pilot safety when flying nearby risk areas or points of interest, the TRAVICAR Guide supports an unlimited number of waypoints. Each waypoint can be added by importing markers from Google Earth .KMZ/.KML files, by manually typing-in the latitude and longitude or by flying directly over a point of interest and tapping the screen or pressing a button on the stick switch.

VISUALIZATION AND QUICK NAVIGATION BETWEEN SWATHS

In-flight swath selection is quick and easy; the system lists on screen the current pattern's swath numbers and colorizes them red when not sprayed and green when sprayed. You simply tap over the swath number you desire and the system immediately selects it and guides you to the right spot. Fixing gaps is also dead easy as you don't need to scavenge the map for missing or skipped lines since the system already identifies these swaths for you.



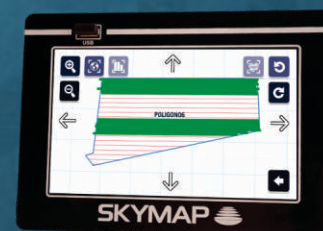
FIVE BUTTON PROGRAMMABLE STICK TRIM SWITCH



The TRAVICAR Guide is 100% touchscreen operated, providing all the functionality you need right at hand with a single tap at the screen. Yet, to optimize the pilot's operation over the flight controls, we designed a 5-button trim switch to be attached to the control stick where the pilot can configure shortcuts for operations available at specific, sensitive moments: when creating an AB/C pattern, when creating a polygon on-the-fly and while flying a pattern, allowing the pilot to create shortcuts for up to 15 operations.

OVERVIEW MAP MODE

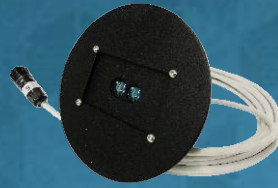
You can show the map screen on overview mode to your client or the agronomist in charge while refueling or reloading without resorting to switching back-and-forth between spray and map modes, jeopardizing the application if any parameter is disrupted by accident. In this mode, the map screen is enlarged and convenience buttons are displayed so you can quickly navigate from one area to another and fix slight coverage gaps with an adjustable overspray so that the job can be easily checked in details.



ACCESSORIES



Automatic Flow Control



Laser Altimeter



Spray on/off automatic

UPDATES

Software updates are frequent and free of charge. We keep an open communication channel with our customers so that their feedback can help us keep improving the software steadily. Contact us and leave your feedback or suggestion, for we speak your language.

INSTALLATION AND TRAINING

We offer additional installation and fitting services following the strictest technical procedures to achieve the best reliability level on each equipment. Every installation is performed by specialized TRAVICAR technicians, along with usage training from basic operation to advanced features. The training session can be attended by several pilots and mechanics, since all operations are performed on ground, with the aircraft engine shut, using the embedded simulator and the gamepad joystick.

TECHNICAL SPECIFICATIONS

- 32GB SSD storage capacity which allows recording of 10,000 hours of flight
- Quad Core 1.9GHz processor designed exclusively targeting low power consumption and high performance embedded electronics
- 4GB DDR3 RAM memory
- Wi-Fi module integrated
- 7" high brightness touchscreen LED panel
- Front USB port and rear USB extension
- 2048-pixel high brightness light bar
- Bolt-on compatibility with automatic flow controllers/flow meters, laser altimeters and gyroscopes built by TRAVICAR with no additional modules needed
- Hardware designed and ready for expansions
- Small processing module form factor
- Dual relay outputs for interfacing with external devices

CONTACT INFORMATION

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