747Pro S Flyer

Overview

747ProS is a powerful GPS Datalogger comes with the latest MTK chipset to work under most of circumstance. 747ProS allows you to log your route by setting the interval of time/ distance/ speed and intelligent auto gear function and motion sensor for smart logging(smart mode) to save memory and power.747ProS also implement with special power circuit design to start logging when car start and protect the electric serge from car power (Car mode). Easy to use and through user friendly utility, it can display the tracks on Google Earth/Map.

● **Appearance & LED indications.**

1. Slide switch		Smart log mode
		Car log mode
		Power off
2. Motion sensor LED	Ⓢ	Blue - Always OFF = Motion sensor OFF
		Blue - Blink every 2 seconds = logging, Motion sensor ON
		Blue - Blink every 5 seconds = power saving mode
3. Battery status LED	🔋	Green - always ON = Charging
		Green - OFF = Fully charged
		Red - always ON = Low battery
4. GPS & Memory status LED	⚛	Orange - always ON = Not Fix and searching for satellite
		Orange - Blink every 2 seconds=GPS fix and logging (smart mode)
		Orange - Blink every 1 second=GPS fix and logging (car mode)
		Orange - OFF = Power saving mode or power off
		Red - always ON = memory full
		Red - Blink every 2 seconds= 80% memory occupied
		Red - Quick blink 3 times = POI recorded
5. USB Port		For power supply and data exchange
6. POI button		One click — To record POI
		Press for 4 seconds — To turn on/off buzzer
		Press for 8 seconds — To turn on/off motion sensor

● **Key Features**

Built-in MTK II GPS	High performance GPS solution with A-GPS for instant fix less than 15 seconds.
Built-in 64Mb memory	Capacity for up to 250,000 waypoints recording.
Rechargeable Battery	850mA Li-ion battery for up to 30 hours operation time and 300 hours standby time.
Built-in buzzer	Default is "ON" for both smart mode and car mode.
	Mode change — Quick beep 1 time (can nit be turned off)
	POI recorded — Quick beep 3 times
	GPS Fix — Quick beep 2 times.
	Buzzer function for POI record and GPS fix can be turned on/off by pressing the POI button for 4 seconds or provided software.
	Turn on/off buzzer — long beep 2 times
Built-in motion sensor	For automatically start/ stop logging and smart power management and waypoint saving. 747ProS will enter power saving mode when it is static for 2 minutes and recover when motion is detected. (This function is turned on as default at smart mode and turned off as default at car mode and can be turned off/on by pressing the POI button for 8 seconds or provided software)
Car mode	747ProS goes into power saving mode when external power supply is not detected and recover when external power supply is detected.
Smart Log mode	Motion sensor is turned on as default and log time interval will be changed according to the speed detected by the Device to save power and memory. Speed for each time interval can be programmed by the provided software.
Built-in Mini USB port	For power charging and data exchange. Use the changer which output 5V, 0.5A~1A current to charge the battery. Connect to PC to download the logged data or upload the A-GPS EPO data. *Connect to Laptop via USB cable to work as a wired GPS receiver.

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● Specification

Category	Parameter	Description
General	GPS Chip	MTK 3329
	Frequency	L1,1575.42 MHZ
	C/A Code	1.023MHz chip rate
	Channels	66 CH for tracking
	Antenna	Built-in patch antenna with LNA
	Datum	WGS-84
Acquisition	Cold Start	35 sec, average
	Warm Start	34 sec, average
	Hot Start	1.5 sec, average
	AGPS	<15sec
Power	Battery	Li-ion
	Charging time	3 hrs (Typical)
	Operation Time	30 hrs (continuously), 300hrs (standby)
	Power Charge	Mini USB port 5 pins
Environmental	Operating	-10°C to +60°C
	Storage	-20°C to +60°C
	Charging	0°C to +45°C
	Relative Humidity	5% to 95% non-condensing
Accuracy (none DGPS)	Position	Without aid: 3.0m 2D-RMS DGPS: 2.5m, 2D-RMS
	Velocity	Without aid: 0.1m/s DGPS: 0.05m/s
	Sensitivity	-165dBm (tracking)
Dynamic	Altitude	<18,000m
	Velocity	<515m/sec
	Acceleration	4G
Interface	USB	Mini USB 5pin
Protocol	NMEA Output	NMEA-0183 (V3.01) - GGA, GSA, GSV, RMC (default) Data bit: 8, stop bit:1 (Default)
	Baud rate	115200
Physical	Dimension	72 x 47 x 20mm
	Weight	65g
Data Log	4MB memory	Record data: RCR/ Date/ Time/ GPS valid/ Latitude/ Longitude/ Altitude/ Speed、Heading.　Log up to 250,000 way points.
Others	Sensor	Vibration sensor to power and memory saving
	Buzzer	Buzzer for mode indication
	Power Switch	Power On/Off
	Certification	CE / FCC

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