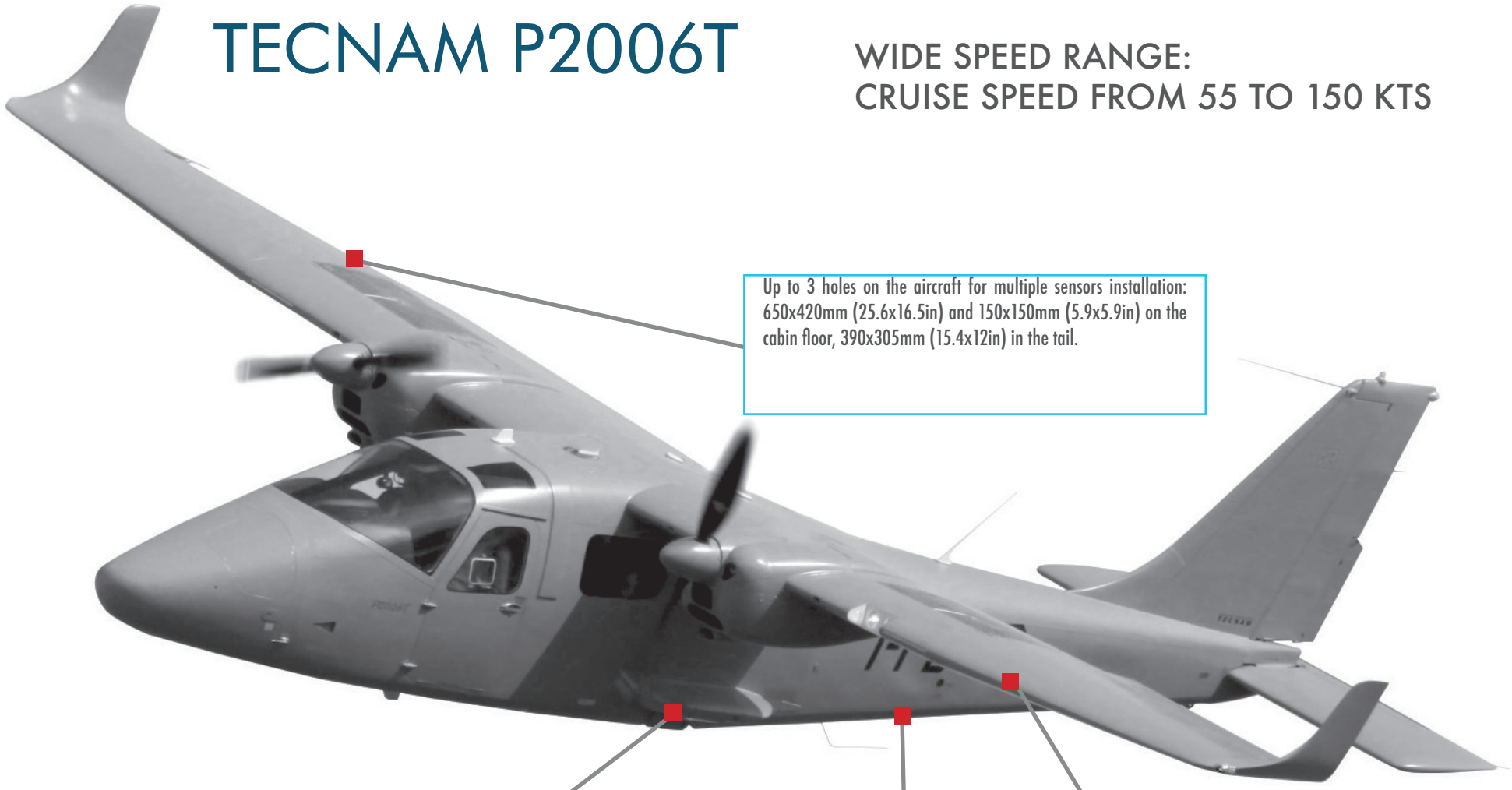
TECNAM P2006T
SPECIAL MISSION PLATFORM

THE BEST CHOICE FOR SURVEILLANCE MISSION

THE PLATFORM
TECNAM P2006T

WIDE SPEED RANGE:
CRUISE SPEED FROM 55 TO 150 KTS



Up to 3 holes on the aircraft for multiple sensors installation: 650x420mm (25.6x16.5in) and 150x150mm (5.9x5.9in) on the cabin floor, 390x305mm (15.4x12in) in the tail.

Pre-installations for Wescam EOS or different sensors, including manufacturing of dedicated fitting plates.

Tecnam engineering support packages are available to dramatically reduce the STC approval time.
Tecnam's expertise may be used for design activities related to mechanical integration, electrical schematics and flight survey.

One Stop Shop alternative: Tecnam can supply the fully integrated, certified and validated aircraft with your sensor.

MULTIPLE CHOICES, OPTIONS AND BUSINESS

The Tecnam P2006T is the twin engine aircraft that can fully match all the special needs of missions operators:

- Fully CS-23/FAR-23 IFR certified - both analogue and glass cockpit available and validated in many countries in addition to EU/US;
- Low acquisition cost;
- Single pilot operations approved (also in IFR);
- Extremely low operation and maintenance costs;
- High flexibility with both Aviation and Automotive fuel (up to 10% ethanol content) approved, also mixed in any ratio;
- High payload capacity with special weight saving program;
- Wide speed range (cruise from 55 to 150 kts);
- May be equipped with a wide range of payload/sensors;
- Operations from semi-prepared fields and extremely short take off and landing distances (1293ft - 394m and 1145ft - 349m, respectively over/from 50' obstacle);
- Large cabin allows the installation of a comfortable station (operator's desk);
- No view obstruction for cameras and sensors, even during 30° turning due to the high wing configuration;
- All seats are removable enabling further increase in the internal volume;

The Tecnam P2006T SMP allows the unique opportunity to have a platform ready for third parties sensor integration:

- The aircraft is available with multiple factory approved holes;
- Multiple sockets power box, capable of up to 28VDC/40Amp for mission equipment (power peaks up to 50Amp)
- Third parties STC Companies will not be involved on airframe structural modifications nor on electrical system alterations, focusing only on their core business: the sensors integration!

Garmin G1000 NXI Glass Cockpit

SPECIFICATIONS AND PERFORMANCE

P2006T CS-23/FAR-23

DESIGN WEIGHT AND LOADING

	STANDARD VFR	
	kg	lb
Maximum Take Off Weight	1.230	2,712
Empty Weight, VFR Standard *	819	1,806
Useful Load	411	906
Baggage allowance	80	176

* Standard Empty Weight for SMP VFR DAY configuration, two seats.

DIMENSIONS

	ft	m
Overall Height	8.46	2,58
Overall Length	28.5	8,7
Wing Span	37.4	11.4
Wing Area	159.1 ft^2	14,8 sqm
Cabin Height	3	0,91
Cabin Width	4	1,22

PERFORMANCE

	STANDARD	
	Variable Pitch Propeller	
Max Cruise Speed KTAS	150 kts	278 km/h
Stall Speed (Flaps Down Power Off) KCAS	55 kts	102 km/h
Practical ceiling	14000 ft	4267 m
Take off run	988 ft	301 m
Take off distance	1293 ft	394 m
Landing Run	758 ft	231 m
Landing Distance	1145 ft	349 m
Rate of climb	1036 ft/min	5,3 m/sec
Range	669 NM	1239 km

POWERPLANT

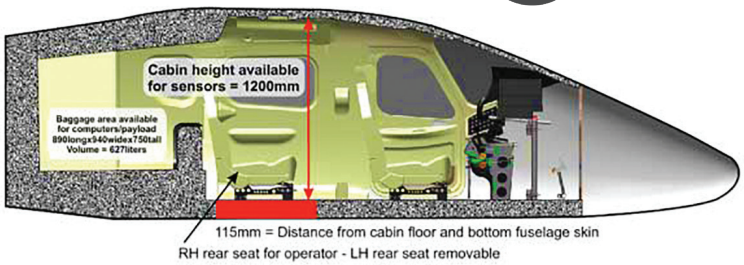
Engine	ROTAX 912 S3
Horsepower	100 + 100 hp
TBO	2000 hrs
Propeller	Two-bladed Constant Speed Full Feathering
Fuel Consumption	4.5 + 4.5 US Gal/h - 17 +17 lt/h
Fuel Type	Mogas and Avgas

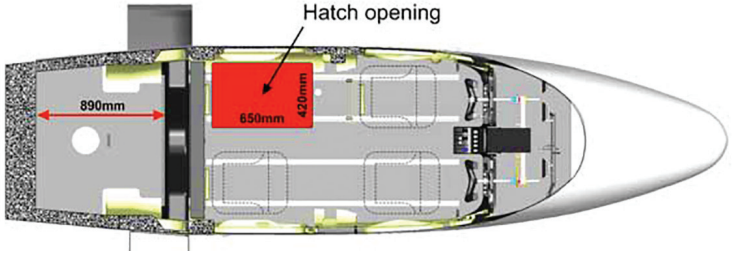
HATCHES AVAILABLE

Big cabin hatch (mod 2006_207) - 650x420mm

This cabin hole is located under the rear passenger's LH seat. Its dimensions and the extensive room above the cabin floor allow the installation of several types of systems/sensors. The distance from cabin floor and the fuselage bottom skin is only 4.5in and it is ideal in order to maximize the FOV of cameras, lasers and sensors.
With this option it is possible to install all the sensors listed below (other brands can be evaluated upon request):

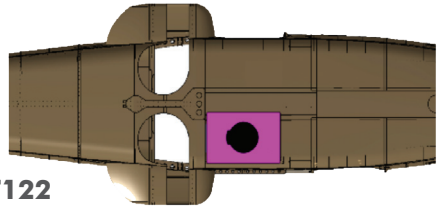
- Wescam MX-15 and MX-10;
- FLIR 380HD and 380HDc;
- FLIR 275;
- LIDAR Laser sensors (RIEGL, ITRES, LEICA)





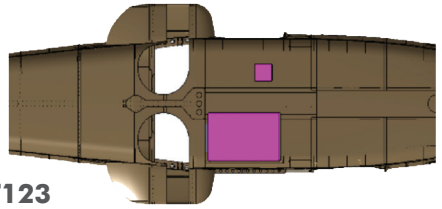
267mm Diameter cabin hole

Option code T122. This hatch and Wescam MX-10 dedicated fitting plate allows the immediate integration of turret. The fourth seat can stay in place while the absence of exhaust gases, together with the camera "stow" position, allowing this equipment to be the "entry level" law enforcement configuration.



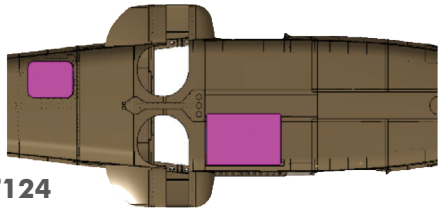
150X150mm cabin hole

Option code T123. Different use small hatch, some operator used it to drop rescue buoys



395x305mm tailcone hole

Option code T124. This hole is located below the fuselage tailcone. Its dimensions and room allow the installation of up to 10 inches diameter. This hole can be provided in conjunction with holes offering the maximum flexibility when multiple sensor are required on the same platform.



ELECTRICAL SYSTEM

The P2006T aircraft standard version is equipped with 14V electrical system supplied by two alternators (one for each engine), each one capable of 40Amp.
Most of mission systems, sensors and equipment operate with 28V. Tecnam can offer a really flexible capacity in terms of the electrical system with the Special Mission dedicated electrical system.
As a matter of fact, this option's modifications on the airframe allow the end-user to have the following available power sources for mission system with an uncompromised aircraft system safety.

INTERNAL GENERATORS

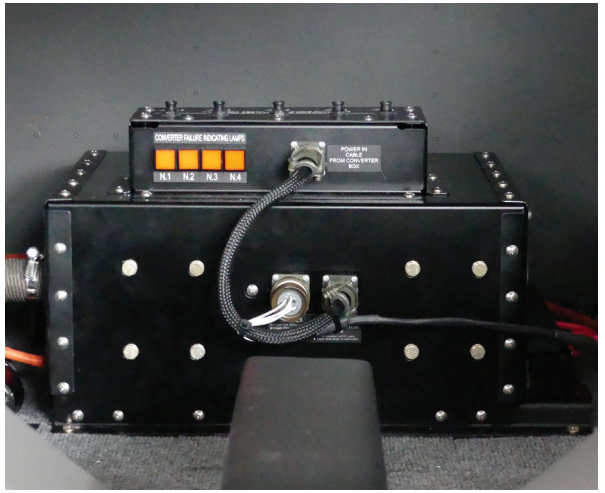
Mission system power comes from both LH and RH engines, 70Amp improved alternators + internal generators. The overall 14V surplus power available for mission equipment is converted by a "converter box" and distributed via multiple connector box supplying 40Amp at 28VDC for mission equipment.

AUTONOMOUSLY OPERATIVE

The aircraft systems are always and autonomously operative. Several safety provisions allow the mission systems to never draw energy from the aircraft system, also in case of OEI operations.

NO SEPARATE 24V BATTERY

There is no need for a separate 24V mission battery. Moreover, there is no need to manage two different ground power boxes: the main power (as well as the GPU) is always operated at 14V as the aircraft manages the 28VDC power generation autonomously.



Converter Box

EXTERNAL 12V PLUG

A relays system allow to plug an external 12V power unit operate or test sensors on ground, with engines OFF and using the common, P2006T standard 12V external socket.
NOTE: in order to successfully test the mission systems, a GPU capable of 100Amp/14VDC is required

EASILY REMOVABLE

Easily removable for maintenance purposes, the Converter Box is located inside the baggage compartment and weighs 9kg.

FEATURES

STANDARD P2006T SMP EQUIPMENT LIST

Glass IFR package 1003 - 885 kg

GARMIN G1000 Nxi PACKAGE
Includes the following equipment:

G1000 Nxi Integrated Flight Deck System, includes:

- GDU 1050 10-inch PFD
- GDU 1050 10-inch MFD
- Dual GEA 71 Engine & Airframe unit
- Dual GIA 63WAAS Com/Nav/GPS/GS/LOC
- GMA1347 Digital audio system
- GMU44 Magnetometer
- GDC72 Air data computer
- GRS79 AHRS
- GTP59 OAT
- GTX345R Mode S Transponder (ADS-B IN and OUT)
- MD302 Standby Attitude Module Digital Back Up instrument
- DME - KING KN63 - Integrated control - displayed on PFD
- Pitot System Heated

Non-Additive. Replaces all Standard Avionics.

OPTIONS GLASS:

Code	Kg	Description
T106/A	4.5	ADF Becker RA3502 remote unit
T108	5.5	TAS GTS800 GARMIN Traffic Advisory System
T109	3.0	L-3 Storm Scope WX 500

OPTIONS - dedicated to SMP

Code	Kg	Description
T119	5,5	Alternators 70 Amps (Exchange for standard 40 Amps)
T122	0,5	Cabin Hole 267mm Diameter (ref. Mod. 2006_229)
T123	0,5	Cabin Hatches small
T124	1,5	Tailcone Hatch 395_305 mm (lenght x width) (ref. Mod. 2006_261)

Analogue IFR package 1001 - 865 kg

Includes the following equipment:

- Dedicated 28V electrical power V.1 (based on 70Amp + built in) incl power supply and alternator 70Amp
- Cabin hatch (mod 2006_207) - 650x420mm

OPTIONS ANALOGUE:

Code	Kg	Description
T104	5	KING KR87 ADF with KI 227 Indicator

OPTIONAL EXTRAS

Code	Kg	Description
T110	9	P2006T Autopilot S-TEC 55X DUAL AXIS
T111	3	Electric TRIM (S-TEC, already included in the opt 110)
T115/A	2	Leather Seats Two-Coloured (New Look)
T116/A	5,5	Premium Luxury Interiors (Leather Seats Two- Coloured New Look and Wall side Panel Matt Gray)
T113	15	Debris Protection
T114	1	Surround View Windows
T116	9	P2006T Special Paint 2 Colors
T127	1,8	P2006T Metallic Paint requires T115/A
T112	0,5	Power Supply from built-in Generator (Max 20 Amps (each) @ 5800rpm
T125	0	P2006 Fuselage Cover
T126	0	P2006T Packing
T127	1.8	Metallic paint, (requires option T115/A)

YOUR MOST VERSATILE, EFFICIENT AND FLEXIBLE “EYES IN THE SKIES”

QUALITY AIRCRAFT SINCE 1948
TECNAM

Costruzioni Aeronautiche TECNAM SpA
Via Maiorise 81043 Capua (CE) Italy
Tel +39 0823 622297
Fax +39 0823 622899

www.tecnam.com
info@tecnam.com

19040416