

# P2010 P TwentyTen



**SPECIFICATION AND DESCRIPTION**



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This document applies only to the Tecnam P2010 Twenty Ten and is published for the purpose of providing general information for the evaluation of design, powerplant, performance and equipment.



Pascale Museum at Tecnam Headquarter Capua

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## GENERAL DESCRIPTION

**The P2010 is where performance and comfort meet in one sexy IFR package. 4 seats. 3 passenger doors. 1 baggage door. Lycoming IO-360M1A engine. Metal wings, landing gear and stabilator. Carbon fiber fuselage. Balanced controls. Unsurpassed stability.**

The state of the art Tecnam P TwentyTen is the most advanced high wing modern single engine aircraft in the marketplace.

The introduction of the P TwentyTen MkII satisfies the needs of even the most demanding and discerning private owners, offering better engine performance as well as the most up to date avionics suite from Garmin.

This four-seater aeroplane brings together an advanced technology all carbon fibre fuselage with a metal wing and stabilator, an expansive cabin featuring



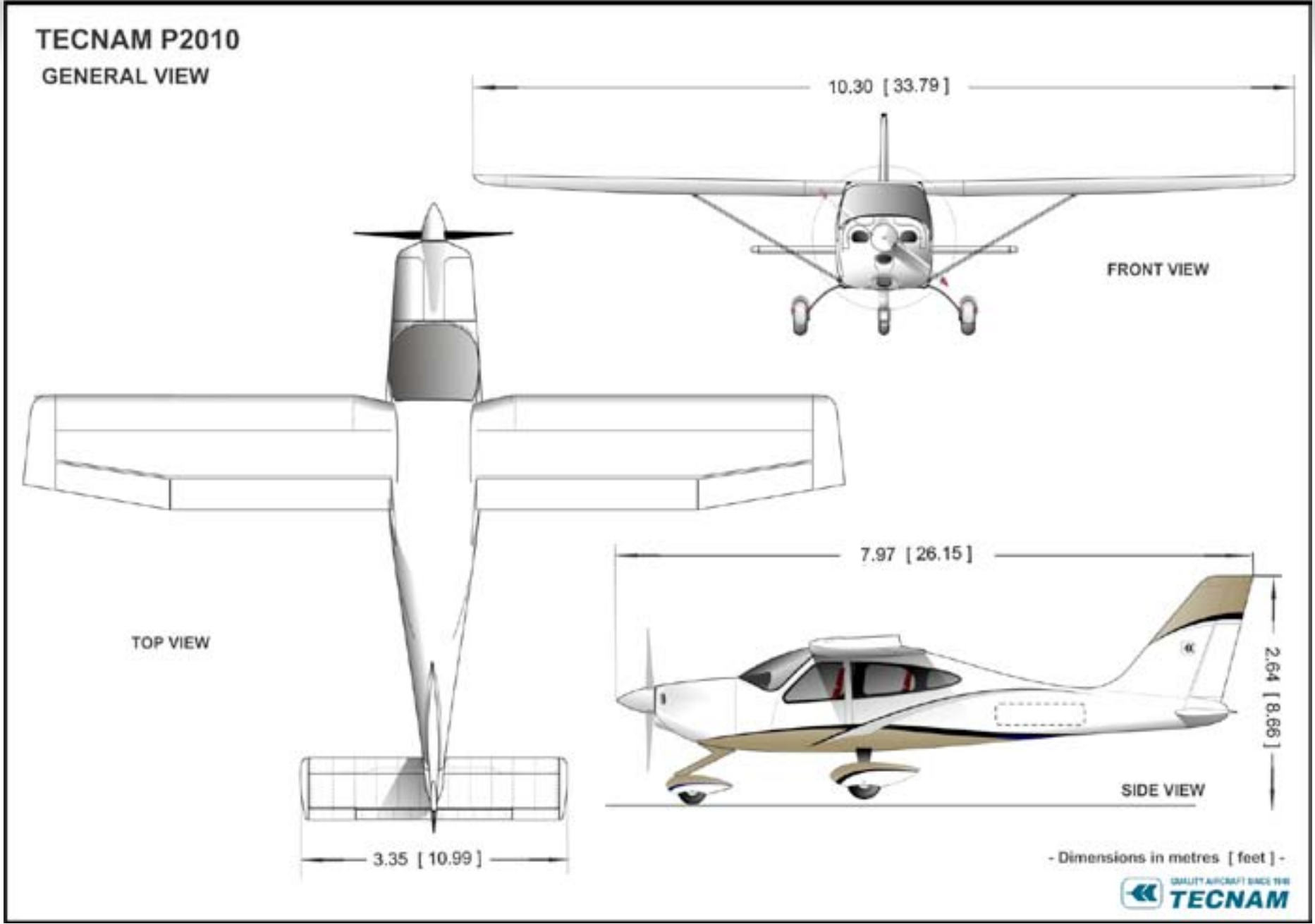
ergonomic forward and rear seats with exceptional legroom and a separate third entry door.

The wide composite cabin allows for a large instrument panel with three avionic options: analogue IFR, a Garmin G500 IFR or the next generation twin-screen Garmin G1000 NXi IFR, new Flat-Panel Suite with integrated GFC700 autopilot.

Carbon fibre ensures smooth surfaces and allows for an elegance and styling you would expect from Tecnam's Italian design team. Metal is used for the wing and stabilator to provide further strength and stability. The wing is based on the well-proven NACA63A aerofoil. Through partial tapering, the design brings it close to the optimal lift distribution (elliptical). The all movable type (stabilator) horizontal tail, a trade mark of all Tecnam aeroplanes, allows for excellent controllability and 'hands off' longitudinal stability.

### Certification

The Model Twenty Ten is certified to the requirements of EASA CS-23 - FAR 23 including day, night, VFR and IFR. Export certification requirements may require additional equipment and charges.

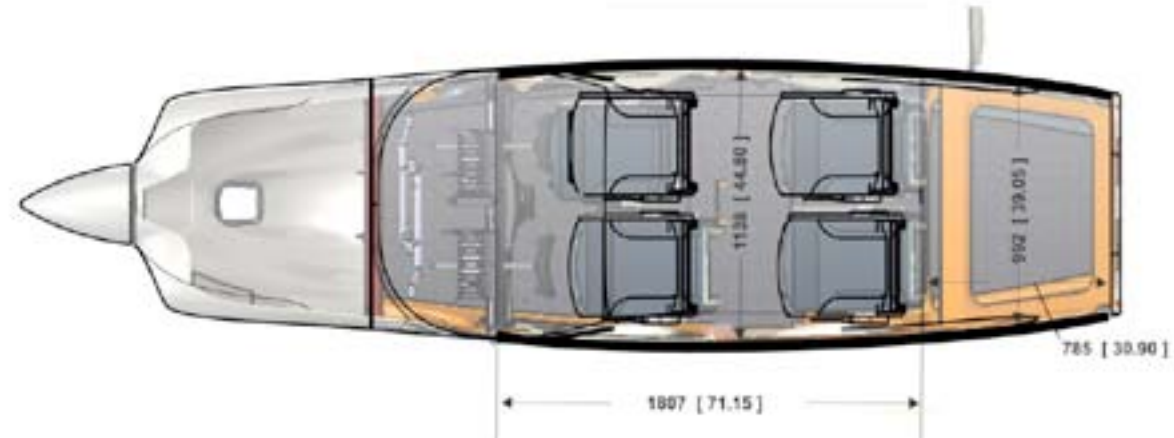


## EXTERIOR AND INTERIOR DIMENSIONS

Dimensions	ft	m
Overall Height	8.8	2.70
Overall Length	25.9	7.9

Wing	ft	m
Span (overall)	33.79	10.3
Area	149 ft <sup>2</sup>	13.9 m <sup>2</sup>

Cabin	ft	m
Height	3	0,91
Width	3.74	1,14



Baggage Door	ft	m
Height	1.28	0,39
Width	1.57	0,48

Cabin Door	ft	m
Height (front)	3.05	0,93
Height (rear)	3,00	0,91
Width (top)	2.88	0,88
Width (bottom)	2,33	0,71



DESIGN WEIGHT AND LOADING	STANDARD		P2010 MkII 390	
	kg	lb	kg	lb
Maximum Take Off Weight	1,160	2,557	1,160	2,557
Empty Weight, Standard	740	1,631	765	1,687
Useful Load	420	925	395	871
Baggage allowance	40	88	40	88

PERFORMANCE	IO-360-M1A 180 hp				IO-390-C3B6 215 hp	
	Fixed Pitch Propeller		Variable Pitch Propeller		Variable Pitch Propeller	
Max Cruise Speed KTAS	134 kts	248 km/h	137 kts	254 km/h	148 kts	274 km/h
Stall Speed (Flaps Down Power Off) KCAS	52 kts	96 km/h	52 kts	96 km/h	52 kts	96 km/h
Practical ceiling	12000 ft	3658 m	12000 ft	3658 m	15000 ft	4572 m
Take off run	1365 ft	416 m	1102 ft	336 m	1083 ft	330 m
Take off distance	2054 ft	626 m	1952 ft	595 m	1640 ft	500 m
Landing Run	778 ft	237 m	778 ft	237 m	778 ft	237 m
Landing Distance	1709 ft	521 m	1709 ft	521 m	1709 ft	521 m
Rate of climb	784 ft/min	4 m/sec	841 ft/min	4 m/sec	1000 ft/min	5 m/sec
Range	591 NM	1094 km	600 NM	1111 km	597 NM	1106 km

All estimated performance data are based on airplane weights at MTOW; standard atmospheric conditions; level, hard surface, dry runways, no wind.

## POWERPLANT & ACCESSORIES

The P Twenty-Ten in its standard configuration is powered by the renowned 180 HP Lycoming IO-360 and has a high fuel capacity (240lt, 63.4 imp. gal). Of course, carbon fibre equals a lighter and therefore more fuel efficient and most economical aeroplane.

The Mk.II version is powered by Lycoming's IO-390-C3B6 engine that provides 215 hp @ 2,700 rpm, coupled with a variable-pitch propeller.

**IO-360-M1A**  
180 hp



**Power:** 180 HP@2700 RPM

**Fuel:** Unleaded Aviation Fuels: UL91 or higher per ASTM D7547 or Automotive Fuels: 93 AKI or equivalent per ASTM D4814. Please refer to Lycoming Engines SI 1070 for a complete listing of approved fuels.

**IO-390-C3B6**  
215 hp



**Power:** 215 HP@2700 RPM

**Fuel:** UL100 or 100LL

<b>Both Engines:</b>
Tubular Steel Engine Mount
Dynafoal Rear Mount
Alternate Engine Air
Oil Cooler
Induction Air Filter
Throttle Control
Mixture Control
Propeller Control (Variable Pitch only)
Dual Ignition System, Shielded Magneto
Engine Exhaust Muffler
Propeller Spinner

**LYCOMING**

## STANDARD EQUIPMENT

### **GARMIN G500 FLIGHT DISPLAY**

GDU 620 Dual 6.5 inch diagonal color LCD  
GRS-77 AHRs  
GDC-74A Air Data Computer with OAT Probe  
GMU-44 Magnetometer  
GTP59  
GA 35 GPS/WAAS, antenna

### **FLIGHT INSTRUMENTS and INDICATORS**

Magnetic Compass  
MD 302 Standby Attitude Module  
Pitot System Heated  
Static System  
Alternate Static Source  
Stall Warning Audible  
Stabilator Trim Position Indicator  
Rudder Trim Position Indicator

### **ENGINE INSTRUMENTS**

JPI EMS 4 Cyl. For L/R 2 tanks setup complete  
Primary package with senders, includes:  
Tachometer-Hour Recorder  
Manifold Pressure  
Oil Pressure and Temperature  
Fuel Press  
Fuel Flow  
Lh/Rh Fuel Quantity  
CHT - Cylinder Head Temperature  
EGT - Exhaust Gas Temperature  
Ammeters

Voltmeters  
Annunciator Panel – Caution and Warning Alerts

### **FLIGHT CONTROLS**

Hydraulic Toe Brakes  
Parking Brake  
Electrical Flaps  
Dual Flight Controls  
Castering Nose Wheel  
Aileron and Elevator Lock  
Flight Trim Controls  
-Rudder with Indicator  
-Stabilator with Indicator  
Engine Controls  
Throttle  
Mixture  
Alternate Air  
Fuel Control Selector With LH/RH/OFF

### **ELECTRICAL SYSTEM**

Alternator, 28 Volt, 60 Amp  
Battery, 24 volt, 8.0 AH  
Rocker Switches:  
-Master Switch  
Fuel Pump  
-Landing Light  
-Taxi Light  
-Navigation Lights  
-Strobe Light

External Power Supply Receptical  
Circuit Breaker Panel  
Static Discharge Wicks

### **FUEL SYSTEM**

Two Integral Fuel Tanks With 210 Litres  
Total Capacity  
Engine Driven Fuel Pumps  
Auxiliary Fuel Pump, Electric  
Fuel Tank Quick Drain  
Fuel Selector Valve, Left/Both/Right

### **INTERIOR**

Pilot and Co-Pilot Seats Leather  
- Adjustable Fore and Aft  
- Vertical Adjustment  
Two Rear Passenger Seats Leather  
- Adjustable Fore and Aft  
- Vertical Adjustment  
Seat Belts & Shoulder Harness, All Seats  
Wall To Wall Carpeting  
Hand Held Fire Extinguisher  
Map & Storage Pockets  
Radio Call Plate  
Tow Bar  
Soundproofing  
Luggage Compartments  
Overhead Cockpit Speaker  
Four Position Intercom System



First Aid Kit

## EXTERIOR

Epoxy Corrosion Proofing, All Structure  
 LH/RH Front Door Pilot/Co-Pilot, Lock and Key  
 Rh Rear Door Passenger  
 Rh Baggage Door With Lock  
 Rear Window  
 All Lateral Windows Tinted  
 Fixed Landing Gear  
 White Polyurethane Exterior Paint  
 Tie Down Rings  
 Main Wheels, 6.00 X 6  
 Nose Wheel, 5.00 X 5

## EXTERIOR LIGHTS

Nav. Lights Led With Strobe Aveo Full Led Tso  
 Landing/Taxi Light Led

## CABIN COMFORT SYSTEM

Windshield Defroster  
 Ventilator Adjustable, 4 Place  
 Heating System  
 Soundproofing

Cabin Monoxide Detection System

## POWERPLANT & ACCESSORIES

Lycoming IO-360-M1A Engine  
 180 HP @ 2700 RPM  
 Fuel Injection System  
 Tubular Steel Engine Mount  
 Dynafocal Rear Mount  
 Engine Driven Vacuum Pump  
 Alternate Engine Air  
 Oil Cooler  
 Shock Mounted Cowling  
 Throttle Control  
 Mixture Control  
 Dual Ignition System, Shielded Magneto  
 Engine Exhaust Muffler

## POWERPLANT & ACCESSORIES

Fixed Pitch 2 Blade MT Propeller  
 Propeller Spinner  
 Electric Starter

## PRODUCT SUPPORT/DOCUMENTS

Manufacturer's Full Two Year Limited Warranty

Pilot's Operation Handbook  
 Maintenance Manual  
 Parts Catalog  
 Aircraft Log Book  
 Engine Log Book

## STANDARD GARMIN AVIONICS PACKAGE

GMA 340 Audio Panel  
 GTN 650 COM/NAV/GPS  
 GTX345R Mode S Transponder (ADSB IN/OUT)  
 Altitude Encoder  
 Avionics Master Switch  
 Mic & Phone Jacks Pilot/Copilot/Passengers  
 Hand Held Microphone  
 Avionics Circuit Breaker Panel  
 Pilot And Co-Pilot Ptt  
 ELT 406 ARTEX  
 Antennas:  
 • Marker Beacon Antenna  
 • Transponder Antenna  
 • VHF Antenna  
 • NAV Antenna  
 • Emergency Locator Transmitter Antenna

## STANDARD AVIONICS



### STANDARD GARMIN AVIONICS PACKAGE

- GMA 340 Audio Panel
- GTN 650 COM/NAV/GPS
- GTX345R Mode S Transponder (ADSB IN and OUT)
- Altitude Encoder
- Avionics Master Switch
- Mic & Phone Jacks Pilot/Copilot/Passengers
- Hand Held Microphone
- Avionics Circuit Breaker Panel
- Pilot and Co-Pilot Ptt
- Elt 406 Artex
- Antennas:
  - Marker Beacon Antenna
  - Transponder Antenna
  - VHF Antenna
  - NAV Antenna
  - Emergency Locator Transmitter Antenna

Empty Weight 736 kg

## AVIONICS OPTION 1



### Garmin G500 IFR PACKAGE

*Includes the following equipment:*

- GNC 255A Com/Nav
- DME - King KN63 with KD572 Indicator
- Pitot System Heated
- Alternate Static Source
- Rocker switches:
  - Pitot Heat
  - Map Light
  - Day / Night
  - Emg. Light
- Interior Lighting:
  - Panel Light
  - Emergency Light
  - Pilot/Copilot Cabin Overhead Lights, 2
  - Passenger Overhead Light, 2
  - Map Light, 1
  - Interior Lights Dimming Control, 7
  - Avionics Radios internally lighted
  - Compass internally lighted
  - Rocker Switches Internally Lighted, All

*Non-Additive. Replaces all Standard Avionics.*

## AVIONIC OPTION 2



### Garmin G1000 PACKAGE

*Includes the following equipment:*

- GARMIN G1000 Legacy Integrated Flight Deck System
- GDU 1040 10-inch PFD
- GDU 1040 10-inch MFD
- 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 (ADSB IN and OUT)

*Non-Additive. Replaces all Standard Avionics.*

## AVIONICS OPTION 3

## P2010 MkII 390



*Includes the following equipment:*

- **Lycoming IO390 215 HP** Engine
- **G1000 Nxi** Integrated Flight Deck System, includes:
  - GDU 1050 10-inches PFD
  - GDU 1050 10-inches 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 (ADSB IN/OUT)
- 2-Blades VP Propeller

**ENGINE IO390 ONLY AVAILABLE WITH G1000 Nxi and VP Propeller**

*Non-Additive. Replaces all Standard Avionics*

## PAINT SCHEMES

### Standard



#### St1 — Color Stripes



#### St2 — Color Stripes



#### St3 — Color Stripes



#### St4 — Color Stripes



### Special Paints

#### Sp1



#### A — Paint Stripes



#### Sp2



#### B — Paint Stripes



#### Sp3



#### C — Paint Stripes



Chrome Metallic Badge

Many color options for your to choose: from base Standard livery to the Special Paint Two colors. **More info on:** [colors.tecnam.com](http://colors.tecnam.com)

# INTERIOR



P2010 Premium Interior

**Standard Interior** comes with blue seats and ivory cabin.

**Premium option** makes your aircraft more precious: Alcantara leather and a dark ceiling improve your flying experience with unique ingredients. Your aircraft interiors is now more exclusive and comfortable while guaranteeing absolute compliance with the industry's strictest standards.



Leather anthracite gray



Leather anthracite light gray

# OPTIONS

Code	Kg	Description
P01	10	GFC700 Garmin - Fully integrated two-axis Autopilot
P02	4,5	RA3502 ADF Becker remote unit
P03	10	GTS 800 Garmin TAS with Dual GA58
P04	2,5	Interior Premium Edition
P05	2,5	Special Paint two colors
P06	9	MT 2 Blade VP Propeller (Exchange for Standard Fixed Propeller)
P09		Fuselage Cover

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