

# *Fly About Aviation*

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# PIPISTREL

BY TEXTRON eAVIATION

## *Pipistrel Alpha* **BCAR 525 KG MTOW**

*Available now in the UK*



## Information Pack Alpha BCAR 164-A

More detailed information and photos are available on the Fly About Aviation Ltd website. Contact us on 07540 899 690 to discuss your queries.

### 1. What is the Pipistrel Alpha BCAR – 164-A ?

The Pipistrel Alpha BCAR combines performance and efficiency making it the perfect flight training and touring aircraft. Through modern aerodynamic design and high-tech manufacturing, the Alpha BCAR provides superb performance and flight characteristics with low operating costs thanks to its fuel-efficiencies. Built by design the Alpha BCAR comes equipped with all the essential features expected for flight training including a strong durable undercarriage, and gentle flight characteristics. Suitable for entry level flight training and experienced aviators the Alpha BCAR offers a quiet, comfortable cabin with easy access and is a comfortable learning environment for students. Operated throughout the world in some of the harshest conditions the Alpha Trainer is a trusted and proven trainer backed by Pipistrel's service and support network.

The Alpha BCAR is certified to UK Microlight regulations after undergoing very stringent BCAR-S regulations as set up by the UK CAA and approved by the British Microlight Aircraft Association.

The Alpha BCAR 164-A is the type variant of the Pipistrel Alpha Trainer manufactured specially for the UK market. This aircraft has a maximum take off weight of 525 kg, with a typical payload capacity of 225 kg including two adult persons plus 50 litres of fuel plus baggage .

UNITED KINGDOM BRITISH MICROLIGHT AIRCRAFT ASSOCIATION PERMIT TO FLY		
Certificate No: <b>PR072588/001</b>		
Nationality and Registration Marks <b>G-CMTZ</b>	Constructor and Constructor's Designation of Aircraft <b>PIPISTREL D.O.O PIPISTREL ALPHA BCAR-S 164A</b>	Aircraft Serial Number <b>AT164A0012</b>
<p>This Permit to Fly, issued pursuant to Article 40 of the Air Navigation Order, hereby permits this aircraft to fly within United Kingdom airspace only, without a Certificate of Airworthiness being in force in respect thereof. The aircraft to which this Permit applies is classified as a microlight aeroplane as defined in the Air Navigation Order and has been found to comply with the appropriate design standards. This permission for flight within the United Kingdom airspace does not constitute a Certificate of Airworthiness issued pursuant to the Convention on International Civil Aviation dated 7 December 1944.</p> <p>This Permit to Fly is issued subject to the Conditions listed on subsequent pages.</p> <p><b>A CERTIFICATE OF VALIDITY FORMS PART OF THIS PERMIT TO FLY</b></p> <p>The Certificate of Validity may be issued or renewed by an appropriately approved organisation, upon being satisfied with the design, construction and airworthiness of the aircraft. The Certificate of Validity will remain valid for the period prescribed from the date of issue.</p> <p>Date: <u>29th February 2024</u></p> <p style="text-align: right;"> for the British Microlight Aircraft Association</p> <p style="text-align: center;"><small>Permit issued by the British Microlight Aircraft Association Ltd, CAA approval ref. DAJ/8909/84</small></p> <p><small>No entries or endorsements may be made on this Permit or the Certificate of Validity except by an authorised person. If either document is lost, the British Microlight Aircraft Association should be informed at once. Any person finding these documents should forward them immediately to the BMAA, Unit 6 Somerville Court, Banbury Business Park, Adderbury, Oxfordshire, OX17 3SN. BMAA Type Approved Microlight - 20230511</small></p>		

UNITED KINGDOM BRITISH MICROLIGHT AIRCRAFT ASSOCIATION CONDITIONS OF PERMIT TO FLY NO PR072588/001		
		
Page 1 of 1 Dated: 29th February 2024		
Nationality and Registration Marks <b>G-CMTZ</b>	Constructor and Constructor's Designation of Aircraft <b>PIPISTREL D.O.O PIPISTREL ALPHA BCAR-S 164A</b>	Aircraft Serial Number <b>AT164A0012</b>
<p>Where relevant, the Conditions associated with this Permit supersede those specified in the manufacturers' operating limitations.</p> <ol style="list-style-type: none"> <li>1. The aircraft shall be maintained in an airworthy condition.</li> <li>2. The aircraft shall be operated in accordance with the current procedures and limitations contained in the applicable technical publications and with the manufacturers instructions for the type and model of aircraft.</li> <li>3. The aircraft is permitted to fly only for non-aerobatic operation. Non-aerobatic operation includes: <ul style="list-style-type: none"> <li>(i) any manoeuvre necessary for normal flying.</li> <li>(ii) stalls.</li> <li>(iii) steep turns in which the angle of bank does not exceed 60 degrees.</li> </ul> </li> </ol> <p style="text-align: center;"><small>Permit issued by the British Microlight Aircraft Association Ltd, CAA approval ref. DAJ/8909/84</small></p> <p><small>No entries or endorsements may be made on this Permit or the Certificate of Validity except by an authorised person. If either document is lost, the British Microlight Aircraft Association should be informed at once. Any person finding these documents should forward them immediately to the BMAA, Unit 6 Somerville Court, Banbury Business Park, Adderbury, Oxfordshire, OX17 3SN. BMAA Type Approved Microlight - 20230511</small></p>		

**2. Which engine is fitted in the Alpha BCAR ?**

*The well known and trusted Rotax 80 hp engine is fitted as standard in the Pipistrel Alpha BCAR. This engine is rugged, reliable, quiet and frugal, which compliments the sleek low drag shape of the Alpha, giving it a very good range and speed performance on not much fuel consumption.*

*The Alpha BCAR delivers power instantly and without hesitation – a comprehensive electronic instrument panel displays the necessary information to the Pilot. The Garmin suite of Avionics, i.e. Radio + Intercom + Transponder with ADSB out + GPS delivers a freshly updated interactions with Ground Control.*

**3. What is the Maintenance for the Alpha BCAR?**

*The fully composite and monocoque type structure of the aircraft eliminates corrosion and reduces routine maintenance and inspection costs.*

*The rugged landing gear is made of composite materials in one C shaped piece, making it easy to inspect before every take off or after every landing.*

*The carbon wings and tail are easily removable for transport by road or by container if required. .*

**4. What about reliability and operating costs ?**

*The well-proven Rotax 80 hp motor is easy to maintain with very low costs; there are many trained engineers all over the UK and in Europe who offer servicing facilities, if the owner/pilot wants; alternatively, the Pilot/Owner can perform the routine maintenance on airframe and engine by themselves.*

*The operating costs are amazingly low; for instance, the Alpha will cruise at 90 knots and consume just 10 litres of Unleaded Petrol per hour; it does not require AvGas to run.*

*The overall result of all these breakthrough innovations is a drastic reduction in the operating costs, significantly contributing to the affordability of pilot training.*

**5. How quiet and clean is it?**

*Featuring noise levels of just 60 dB, the Alpha BCAR is considerably quieter than other aircraft of similar size and type. Due to it's speed, the Alpha BCAR leaves the area faster thus reducing noise perception for its admirers on the ground.*

**6. How safe is it?**

*As part of its certification and approval process in the UK, the manufacturer, Pipistrel had to prove its ability for design and production organisation capability to the UK CAA. This is a very thorough and costly process, and the UK CAA regularly makes inspections of the Pipistrel factory and its design and production staff to ensure that quality of the aircraft is never compromised.*

*Each aircraft produced by Pipistrel is test flown thoroughly by their expert pilots before released to the customers.*

*The seal of approval by the UK CAA and the BMAA is given to each aircraft with its Permit to Fly.*

*Each Alpha BCAR is fitted with a ballistic recovery parachute system in the unlikely event of a mid-air collision or loss of control, thus the Pilot has a second chance to be safe. .*

7. Which Instruments and equipment are fitted in the Alpha BCAR?

The Alpha BCAR 164-A is supplied as standard, ready to fly Microlight aircraft with all flying instruments, radio, intercom, transponder, gps, twin usb charger ports to power any tablets or phones in flight, wing tip and tail beacon lights, super bright LED landing light, electric airbrakes, electric pitch trim, electric auxiliary fuel pump, dual controls, wheel brake with locking pin, leather seats and upholstery, cabin vents for fresh air and cabin heating vent, which **does not** take heat from the exhaust box like in most other aircraft of similar type; thus eliminating the risk of CO poisoning when heating is turned on normally.



Standard equipment fitted to the Alpha BCAR – makes it complete ready to fly model. The customer need not fit any extras as everything the Pilot may wish is fitted as standard.

This comprehensive equipment makes the Alpha BCAR a very good value for money aircraft in its class.

DESCRIPTION	MAKE
AIRSPPEED INDICATOR	KANARDIA
ALTIMETER	KANARDIA
MULTI-FUNCTION DISPLAY + ARTIFICIAL HORIZON (HORIS)	KARNARDIA
ENGINE RPM + HOUR METER	KANARDIA
VERTICAL SPEED INDICATOR + CLOCK	KANARDIA
ENGINE INFORMATION SYSTEM (DAQU)	KANARDIA
MAGNETIC COMPASS (WINTER)	
SLIP BALL	
USB SOCKETS x 2 WITH TYPE A + TYPE C (GSB 15)	GARMIN
RADIO + INTERCOM (GTR 225-A)	GARMIN
TRANSPONDER (GTX 355)	GARMIN
GPS (AERA 660)	GARMIN
STALL WARNER, AUDIO ALARM	GARMIN
STICK SHAKER STALL WARNER	PIPISTREL
ELECTRIC PITCH TRIM SYSTEM AND DISPLAY	PIPISTREL
ELECTRIC AIRBRAKE SYSTEM	PIPISTREL
BRAKES ON MAIN WHEELS, WITH PARKING PIN	PIPISTREL
WING TIP NAV LIGHTS + STROBES plus TAIL BEACON red from AVEO	PIPISTREL
SUPER BRIGHT LED LANDING LIGHT	PIPISTREL
AIRCRAFT RECOVERY PARACHUTE SYSTEM (GRS 6/473)	GALAXY
WHEEL FAIRINGS ON ALL WHEELS	PIPISTREL
LEATHER SEATS AND UPHOLSTERY	PIPISTREL
BAGGAGE COMPARTMENT FOR 10KG LOAD	PIPISTREL
AUXILIARY ELECTRIC FUEL PUMP	PIPISTREL
AUXILIARY CIGAR LIGHTER SOCKET	PIPISTREL
LITHIUM BATTERY 12 V	EARTH X
Optional extra can be ELT of choice	
Optional extra can be Conspicuity device	Pilot Aware
Optional extra can be Tablet with navigation app	SkyDemon
Optional extra can be suitable life jackets for long over water flight	

8. How much fuel does the Alpha BCAR carry?

*Each Alpha BCAR is fitted with a 50 litre petrol tank suitable to use with ethanol additives used in normal unleaded petrol and also suitable for AvGas.*

*The fuel tank is made of plastic material, which is inert to Ethanol. The Rotax engine can be used with upto 10% ethanol or AvGas or UL 91 or UL 100.*

*When flown at 80 knots, the Alpha will consume 9 litres per hour, giving a total endurance of 5 hours 30 minutes and a range of 400 nm.*

*When flown at 100 knots, the Alpha will burn 13 litres per hour, giving a total endurance of 3 hours and 50 minutes and a range of 380 nm.*

*Below is an illustration of the 350 nm range of the Alpha BCAR.*



9. **Where can I test fly and buy the Pipistrel Alpha BCAR ?**

*At present, one can test fly the Alpha BCAR at our home base, Damyns Hall Aerodrome, in Essex. Our experienced flight instructors will show you all the various aspects of the aircraft, and will be able to talk you through the post purchase steps of maintenance, servicing and support that we offer our customers. To book your test flight simply call us on our contact numbers and email.*

*When ready to purchase the Pipistrel Alpha BCAR, simply call us or email us with your full contact details. We can send you the purchase contract to be signed to place the order for your aircraft. Yes, each Alpha BCAR is made to order and generally takes about 6 months to deliver from the factory.*

*A deposit of 30% of the cost is required at the time of placing the order along with the purchase contract.*

*The remainder amount is paid in two instalments; one when your aircraft is on the production line and the final payment when aircraft is ready to be sent from the factory.*

10. **What are the costs to buy the Pipistrel Alpha BCAR?**

*The Pipistrel Alpha BCAR cost price is in Euros and thus the UK Sterling price may fluctuate daily.*

*The price will be fixed when the customer places the order and signs the purchase contract and pays the deposit.*

*For the purpose of information the current price in April 2024 is approximately £125,000.00 including the UK VAT .*

11. **What is the flight endurance and characteristics of the Alpha BCAR?**

*The Alpha BCAR is perfectly suitable for flight training as well as for aerial touring by pilots, with sufficient fuel and baggage capacity as well as speed and comfort.*

Weights	kg
Basic empty	300
Max take off	525
Payload	225
Performance	Kt
Stall speed clean	38
Stall with flaps	33
Cruise speed	100
Max horizontal speed	125
VNE	134
Best climb speed	76
Best glide ratio	15:1
Service ceiling	18000 feet
Endurance	5 hours
Fuel Capacity	50 litres
Baggage compartment	10 kg

For more details see

[www.flyaboutaviation.com](http://www.flyaboutaviation.com)  
[www.pipistrel-aircraft.com](http://www.pipistrel-aircraft.com)

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