



Twin Commander

690 A/B

Aircraft Spec Sheet

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1. General Information

Designation: Twin Commander AC90 - 690 A / B

Amount: 4 aircraft in fleet - 2 US registered / 2 EASA Registered

Type: High Performance Twin turbine, Pressurized, High wing monoplane with retractable tricycle undercarriage.

Powerplants: Two turboprop Garret AiResearch (Honeywell) TPE331-5 and -10
Producing a total of 1435 HP.

Propellers: Two Hartzell 3 blade, constant speed, full feathering and reversible

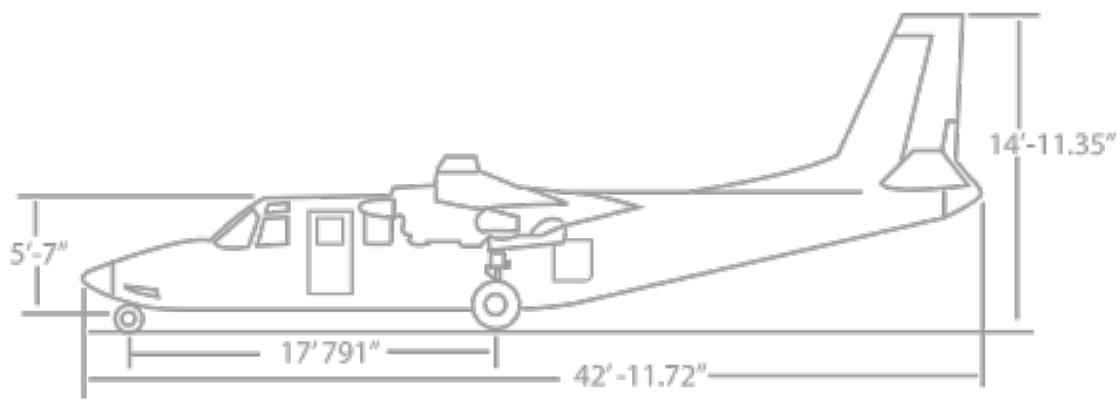
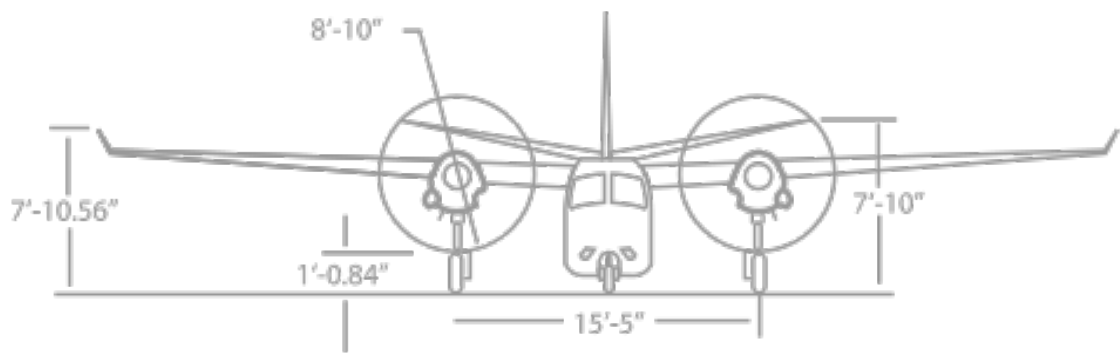
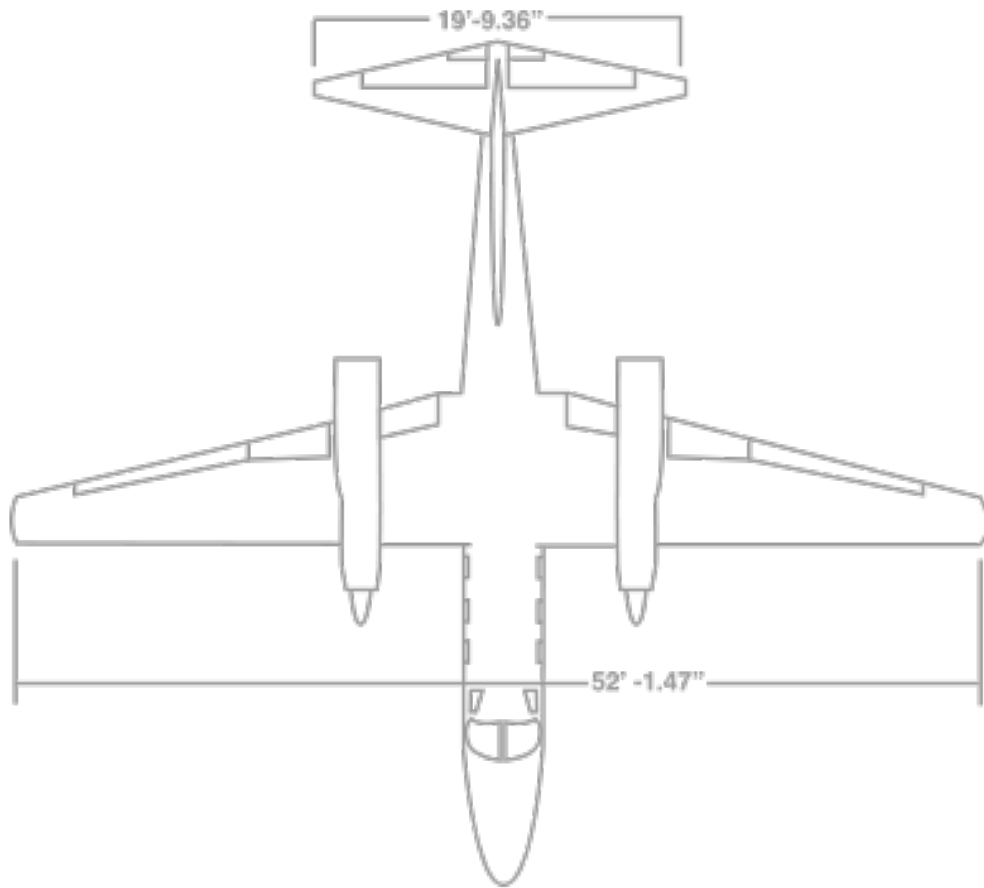
Equipment: IFR (incl. DME & ADF), PBN (incl. SBAS), TCAS, TAWS, Sat Com
Worldwide operations possible

Duty: Aerial Survey, Patrol, ISR, Film, Air-to-Air Photo, R&D flights

Dimensions:

Wing span:	46.55' 14.19m
Length:	44.35' 13.52m
Height:	14.95' 4.56m
Tread:	15.42' 4.70m
Cabin Entry Door:	2. 21' x 3.92' .67 x 1.19m
Cabin Height (Inside Interior):	4.47' 1.36m
Cabin Length:	14.25' 4.34m
Cabin Width (Inside Interior):	4.01' 1.22m
Cabin Volume:	224 ft ³ 6.34m ³
Baggage compartment height:	3.81' 1.16m
Baggage compartment width:	3.50' 1.07m
Baggage compartment length:	4.83' 1.47m
Baggage compartment volume:	46.5 ft ³ 1.32 m ³
Baggage door height:	2.60' .79m
Baggage door width:	1.64' .50m
Baggage compartment load limit:	600 lbs 272 kg





Weights:

	AC90 690A	AC90 690B
Ramp Weight:	10,300 lbs/4,682 kg	10,375 lbs/4,716 kg
Take-off Weight:	10,250 lbs/4,659 kg	10,325 lbs/4,693 kg
Landing Weight:	9,600 lbs/4,364 kg	9,675 lbs/4,398 kg
Standard Empty Weight:	6,126 lbs/2,785 kg	6,195 lbs/2,816 kg
Useful Load:	4,174 lbs/1,897 kg	4,180 lbs/1900 kg
Zero Fuel Weight:	8,750 lbs/3,977 kg	8,750 lbs/3,977 kg
Baggage:	600 lbs/272 kg	600 lbs/272 kg

2. Performance

Operating Speed

Maximum Cruise (100% 12,000 ft.TAS@ 10,325 lbs/4,683 kg)	328mph/285kts
Normal Cruise Speed (96%20,000 ft.TAS@ 10,325 lbs/4,683 kg):	321mph/279kts
Twin Engine Best Rate of Climb Speed (CAS):	161mph/140kts
Twin Engine Best Angle of Climb Speed (CAS):	133mph/116kts
Single Engine Best Rate of Climb Speed (CAS):	132mph/115kts
Single Engine Best Angle of Climb Speed (CAS):	126mph/109kts
Minimum Control Speed (CAS):	99mph/86kts
Stall Speed, Clean (CAS):	94mph/82kts
Stall Speed, Gear and Flaps Down (CAS):	89mph/77kts

Cruising Ranges

Long range cruise at 288mph/250.3kts/463.4kmh (TAS) average at 31,000 ft
96% rpm with 45 min. fuel reserve: 1,693 SM/ 1,471 NM, 2,724 KM

High speed cruise range at 320mph/278kts/515kmh (TAS) average at 25,000 ft
96% rpm with 45 min. fuel reserve: 1,458 SM/1,266 NM/2,346 KM



3. Electrical system + Mission Bus

Aircraft General:

Two 30V / 300 A engine-driven starter-generators
Two Concord 24V Lead Acid 43 Ah Batteries
Dual inverter equipped for 26VAC and 115VAC

Mission Bus:

A 28V / 100 A system is installed, with possibility to modify if needed

Camera power panel includes two 15A and two 35A Amphenol connectors
(MS3102A-20-23S 2P F Connector)

Electrical load indication for operator



4. Camera Hatch & Interior

- 21" Floor Level Camera Port in aft cabin Location
- Forward sliding electric door installed
- Optical Glass installed for oblique Camera's (removable)

