



Glass upgrade for the EMB-120 Brasilia



## EMB-120 G700 TXi Standard Features

- Four Screen PFD/MFD Garmin G700 TXi System with dual, 10.6" Primary Flight Displays with moving map and dual 7" Multi Function Displays with Chartview. TIS-B and FIS-B can also be displayed on the PFD/MFD's.
- Dual solid-state GRS-79 Attitude and Heading Reference Systems (AHRS)
- Dual digital GDC-72 Air Data Computers (ADC)
- Dual Flight Director display
- Synthetic Vision Technology (SVT), which allows flight crews to see 3-D "virtual reality" database landscapes on the pilot and copilot PFDs – even in solid IFR or nighttime VFR conditions
- Dual Garmin GTN 650's GPS/Nav/Comms providing WAAS/SBAS-certified GPS with LPV, VHF Nav with ILS and VHF Comm with 25kHz or 8.33 kHz spacing, TAWS A and ADS-B In - TIS-B and FIS-B.
- ADS-B "Out/In" compliant, dual extended-squitter GTX-345R Mode S transponders
- GWX-75 Solid-State full-color Doppler weather radar with 12" Antenna, automatic tilt compensation
- GTS 855 TCAS I Traffic Collision Avoidance System
- Interface to existing DME-42, ALT-55B Radar Altimeter, APS-65 Autopilot
- Garmin SafeTaxi airport diagrams that allow crews to view their position on taxiways with a built-in database of U.S., Canadian or European airport diagrams
- Modular rack-mounted LRU's under the cabin floor and in nose compartment



Pre-Mod Instrument Panel



Post-Mod Instrument Panel

## Garmin G700 TXi

*Worldwide Aircraft Services, Inc.*

For EMB-120 operators facing avionics obsolescence issues, dispatch-reliability concerns and the need to extend the operational life and capabilities of their aircraft, there is now an integrated flight deck solution that solves each of these problems – and more: The Garmin G700 TXi upgrade.

It does this while improving situational awareness and efficiency.

Consolidating all the primary flight, navigation, weather, terrain, traffic and radio frequency readouts once scattered across a myriad of instrument, the G700 TXi glass upgrade package with dual GTN 650's, provides Primary Flight Displays (PFD's) at the captain and first-officer positions. Each PFD clearly depicts aircraft attitude, airspeed, climb rate, altimeter and horizontal course/heading information. With Synthetic Vision technology (SVT), your crew can now fly with a realistic 3-D view of topographic features surrounding their aircraft, adding a whole new level of safety. Using sophisticated graphics modeling, Garmin SVT tracks the navigation system's terrain alerting database to recreate this "virtual reality" landscape that looks so real and life like, it's almost like having a clear day "out-the-window" view – even in solid IFR or nighttime VFR conditions. Plus, SVT offers a flight path vector that predicts your aircraft's direction to simplify precision flying.

Just inboard of each PFD you'll find dual GDU700P displays with feature rich MFD capabilities: chart display, airways, approaches, weather radar and TAWS. At the top of the center console, you'll find dual GTN 650 GPS/Nav/Comms with WAAS GPS, providing LPV approach capability as well as ILS/VOR/LOC and Glideslope capabilities. Integrated control/display for the GTX 345R Mode S/ADS-B transponders and VHF Comms with 8.33 or 25 KHz channel spacing are also included.

In the center of the panel a Mid-Continent MD302 Standby Attitude Module resides, giving Attitude, Altitude, Airspeed, Slip, Vertical Trend and Heading information in the event of an emergency.

### Saving Weight

Not only does the Garmin G700 TXi suite bring the latest avionics capabilities to your EMB-120 cockpit, but, it also removes an estimated 195 lbs. of hardware and wiring as well.

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