

BRAZILIAN OPERATOR LOOKS TO THE FUTURE WITH GLOBAL EXPRESS XRS UPGRADES

Nothing is more important to professional pilot Eduardo Cabral than providing his passengers with a safe and comfortable experience every time they fly.

Case Study



Honeywell

Cabral is one of three experienced pilots who fly a Bombardier Global Express XRS business jet owned by prominent Brazilian businessman Michael Klein, best known as a major player in Brazil's retail industry.

"Michael Klein has owned business aircraft for many years, so they clearly recognize the benefits private jets provide for business and personal travel," Cabral said. "They purchased the Global Express in 2022 for its performance, cabin size and range. More than 90% of our destinations are outside of South America, primarily in the United States and Europe, and we flew more than 200 hours during a recent four-month period."

A busy flying schedule is just fine with Cabral. He counts his time in the Global Express cockpit as a highlight of an aviation career that began in 2007 and includes a stint flying for Brazil's largest business jet operator, which employed about 80 pilots and managed some 40 aircraft.

"This is my first time flying a long-haul business jet and I am truly impressed by it, Cabral said. "The Global Express is a pleasure to fly on international flights, and the Honeywell upgrades we're installing make a huge difference in safety, performance and passenger satisfaction."

UPGRADES POSITION THE XRS FOR TODAY AND TOMORROW

Shortly after acquiring the aircraft in 2022, the owner approved a multi-year effort to upgrade the avionics and navigation system as well as the weather radar systems on the 2005 model aircraft.

"We reached out to Jose Vinicius (JV) at Honeywell, who helped us develop an effective four-year roadmap for upgrades that allows us to keep up with changes in the operating environment and enhance the aircraft's market value," Cabral said. "Without upgrades like these, an older aircraft will soon be on the ground, unable



to meet regulatory requirements or perform mandatory operations."

JV, Honeywell Sales Manager for South America, was impressed with the pilots' professionalism, technical expertise and ability to communicate upgrade benefits to the aircraft owner.

"Michael Klein is investing in technologies that will enable a generational improvement in aircraft capabilities at a fraction of the cost of acquiring a new airplane," he said.

"When this current series of upgrades is complete in 2026, the family will have a fully refreshed aircraft with capabilities similar to much newer business jets."

EDUARDO CABRAL
PROFESSIONAL PILOT

ROADMAP TO THE FUTURE FOR THE GLOBAL XRS

LCD COCKPIT DISPLAYS – 2023

The team initiated the modernization process in 2023 by replacing the aircraft's obsolete cathode-ray tube (CRT) cockpit displays with Honeywell DU-875 liquid crystal display (LCD) units. According to Cabral, "The new displays are clearer, brighter and easier to read than the old CRTs, which improves pilot comfort and situational awareness. The synthetic vision system (SVS) is invaluable, especially in mountainous areas."

The SVS provides 3D color images of runways, terrains and obstacles, giving pilots a clear view of the virtual flight path. This increased level of situational awareness is instrumental when flying to unfamiliar locations, in adverse weather conditions, or at night, thereby reducing errors and pilot workload.

FLIGHT MANAGEMENT SYSTEM – 2024

The flight management system (FMS) was upgraded in 2024 by replacing the control display unit (CDU) with one featuring a full-color touchscreen display to reduce pilot workload and enhance situational awareness. "The FMS upgrade was essential to keeping the aircraft current and enabling international flight operations," Cabral said.

"It makes flying simpler and more enjoyable."

EDUARDO CABRAL
PROFESSIONAL PILOT

INTUVUE RDR-7000 WEATHER RADAR SYSTEM – 2025

The installation of the Honeywell IntuVue RDR-7000 weather radar system has been a game-changer for

Cabral and his fellow pilots. "The RDR-7000 is an enormous improvement over previous weather radar systems I have flown," he said. "It displays a full range of weather conditions and provides us with the right information at the right time so we can navigate around storm clouds."

The RDR-7000 proved its value during a recent return flight from Florida, he added. "The radar was very accurate in detecting bad weather and turbulence off the coast, giving us plenty of time to alter our course and avoid the hazardous conditions."

Better weather information and features like turbulence detection give passengers a smoother ride, too. "Even experienced flyers like Michael Klein appreciate the RDR-7000's ability to help us detect and avoid turbulence, hail and other hazards," Cabral said. "Advanced weather detection improves the safety and comfort of business jet travel."

JETWAVE SATELLITE COMMUNICATION SYSTEM – 2026

In 2026, the team will install Honeywell's JetWave satcom system in the Global Express XRS. The aircraft does not currently have a satcom system onboard, Cabral pointed out. "The owner and his family are looking forward to the seamless connectivity that JetWave will provide for cabin passengers," he said. "They are excited about the fact that JetWave can keep them productive and entertained anywhere we fly."

Honeywell introduced JetWave in 2017 with speeds 10-20 times faster than the most popular satcom systems of the day and an online experience that reminded passengers of the connectivity they enjoy in their office or living room while cruising



IN IT FOR THE LONG HAUL

By upgrading their Global Express XRS, Michael Klein ensures that the aircraft will remain relevant, reliable and mission-ready for many years to come.

"Upgrades are essential as aircraft age and legacy systems become obsolete. I am fortunate to work for an owner who makes modernization a priority, and to work with companies like Honeywell who share our commitment to safety and have the knowledge, commitment and foresight to support us throughout this upgrade process."

EDUARDO CABRAL

For more information

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