



CIRRUS AIRCRAFT REVOLUTIONIZES PASSENGER SAFETY

News / Business aviation, Manufacturer



Passenger Safety is being Revolutionised! Do you think it is possible to land a small aircraft with just the touch of a single button? To have an answer and know everything in detail - read carefully!

Cirrus Aircraft introduces Safe Return™ – a revolutionary emergency autoland system that enables passengers to land the Vision Jet™ with just the touch of a single button. Once activated when available, Safe Return assumes control of the aircraft and transforms the Vision Jet into an autonomous vehicle that navigates to the nearest suitable airport for landing, communicates with air traffic control, lands and brings the aircraft safely to a complete stop. The Vision Jet, with both Safe Return and the award-winning Cirrus Airframe Parachute System® (CAPS®), provides a comprehensive, must-have total safety solution unique to G2 Vision Jet operators.

“Our mission is to make personal aviation more accessible by continuing to improve passenger comfort and safety,” said Zean Nielsen, Cirrus Aircraft Chief Executive Officer. “Safe Return delivers the next step towards autonomous flight, bringing a new level of confidence to the overall flying experience by providing the ultimate level of safety and control to passengers. Together, with the Cirrus Airframe Parachute System® (CAPS®), we

have once again set a new standard for safety in personal air travel.”



Easily accessible by passengers in the Vision Jet cabin, Safe Return is activated by the touch of a button when available. Once pressed, the autonomous system analyzes terrain and datalink weather to determine the optimal airport for landing, and simultaneously begins communication with Air Traffic Control (ATC). Powered by the Perspective Touch+™ by Garmin® flight deck, Safe Return utilizes all available aircraft data streams, including available fuel, to safely navigate the Vision Jet to the identified airport and transition on to final approach for the appropriate runway based on ground winds. Autothrottle – launched earlier this year on the new G2 Vision Jet – and the automatic flight control system manage the aircraft’s speed, altitude and path, while the system automatically lowers the flaps and landing gear on final approach. Safe Return culminates in the aircraft making a fully autonomous landing on the intended runway and coming to a complete stop, allowing passengers to exit the aircraft.

Included during this entire process is constant communication with ATC – another layer of autonomy that provides assurance to passengers experiencing a critical situation. Upon activation, Safe Return immediately transmits an emergency message to ATC. Using text and speech technology, the system communicates the aircraft’s intentions over the appropriate ATC frequency, the 121.5 emergency voice frequency, and also switches to the universal emergency transponder code. ATC is automatically updated at regular intervals of the aircraft’s location, emergency situation and intended airport landing location. These communications begin the process of activating emergency services at the airport of intended landing to assist the passenger and pilot upon arrival. Safe Return can be easily disengaged by the pilot with a simple press of the Autopilot disconnect button on the yoke if a passenger inadvertently activates the system.

In 2016, Cirrus Aircraft ushered in a new era in personal transportation with the FAA certification of the world’s first single-engine Personal Jet – the Vision Jet. The turbine aircraft defined a new category in aviation – the Personal Jet™ – with its spacious pilot and passenger-friendly cabin featuring panoramic windows, reclining seats, comfortable legroom for five adults and two children and the only turbine aircraft with a whole airframe parachute system as standard equipment. Earlier this year, Cirrus Aircraft unveiled and began delivery of the G2 Vision Jet, offering enhanced performance, comfort and safety with increased cruise altitude, speed and range, and a newly-upgraded Perspective Touch+™ by Garmin® flight deck. The company expects to begin

delivery of Vision Jets equipped with Safe Return in early 2020.

30 OCTOBER 2019

ARTICLE LINK:

<https://to.50skyshades.com/news/manufacturer/cirrus-aircraft-revolutionizes-passenger-safety>