



CIRRUS ANNOUNCES SR SERIES G7+ FEATURING SAFE RETURN EMERGENCY AUTOLAND

News / Manufacturer



Cirrus announced the new SR Series G7+ featuring Safe Return Emergency Autoland by Garmin. With the integration of this technology, anyone in the cabin can activate Safe Return Emergency Autoland with the touch of a button in the event of an emergency, commanding the aircraft to navigate to a suitable nearby airport and land autonomously. This advancement in aviation safety provides pilots and passengers of the world's best-selling high-performance single-engine piston aircraft with an automated emergency landing option in the event of pilot incapacitation or a similar in-flight emergency. Cirrus is currently delivering the SR Series G7+ with Safe Return Emergency Autoland.

The SR Series G7+ introduces more new features, including Automatic Database Updates enabled by Cirrus IQ PRO for pilot convenience, Runway Occupancy Awareness for safety and Smart Pitot Heat powered by the Perspective Touch+ flight deck for reduced pilot workload. Together, these features combined with Safe Return Emergency Autoland and the company's signature Cirrus Airframe Parachute System, bring to market the SR Series G7+, a robust aircraft embedded with advanced technology, automation and safety innovations.

Zean Nielsen, Chief Executive Officer of Cirrus commented: “We’re excited to introduce the SR Series G7+, the aircraft that anyone can land in the event of an emergency with the touch of a single button. As the largest personal aircraft manufacturer in the world, delivering approximately 600 SR Series aircraft per year, the addition of Safe Return Emergency Autoland on a single-engine piston aircraft brings technology previously only available on larger turbine and turboprop aircraft to a greater number of pilots, spouses and their passengers for added peace of mind. The SR Series G7+ launch, along with our expanding ecosystem and Cirrus IQ platform, underscores our commitment to safety and relentless pursuit of innovation.”

Cirrus has historically led the industry in making safety innovations such as the Cirrus Airframe Parachute System and now Safe Return Emergency Autoland as standard equipment. With over 10,000 SR Series aircraft manufactured and 17 million flight hours accumulated since 1999, Cirrus continues to grow the industry and invent solutions that make flying safer and more approachable.



Safe Return Emergency Autoland

The Safe Return Emergency Autoland system uses a combination of advanced sensors, sophisticated algorithms and automated flight control systems to enable the aircraft to autonomously land safely without pilot input. With a single push of a button, the system takes control of the aircraft, communicates with air traffic control, navigates to the nearest suitable airport while avoiding terrain and adverse weather, autonomously lands the aircraft bringing it to a complete stop, shuts down the engine and stops the propeller so that passengers can exit the aircraft safely.

Safe Return Emergency Autoland Activation:

- **Straightforward Activation:** In the event of an emergency, the pilot or passengers can activate the system with a simple push of a button, which is centrally positioned in the aircraft's cabin ceiling, initiating Safe Return Emergency Autoland.

- **Advanced Algorithms:** The system is powered by sophisticated onboard sensors and algorithms that adapt to changing conditions and enable navigation through the airspace, calculate runway parameters, and detect real-time weather and terrain.
- **Fully Automated Flight Control:** Safe Return Emergency Autoland autonomously controls the autopilot and engine to fly the aircraft and execute a safe landing sequence.
- **Air Traffic Control:** The system continuously communicates with air traffic control during the flight and automatically switches to different frequencies as the aircraft travels to the most suitable airport.
- **Passenger Experience:** Passengers are kept informed with straightforward information on the flight displays, including airport destination, arrival time, and remaining fuel. Next steps are also clearly communicated over headsets. Passengers can press the “Talk” button on the flight display to speak directly to air traffic control.

Safe Return Emergency Autoland can be activated both manually and automatically. Anyone in the cabin can activate Safe Return Emergency Autoland at the press of a button. If a pilot is alone or those in the cabin are unable to activate it manually, Safe Return Emergency Autoland is designed to activate automatically if the system determines that the pilot is flying erratically or is unresponsive. Safe Return Emergency Autoland can be disconnected by pressing the autopilot disconnect button at any time the pilot decides.

Additional SR Series G7+ Features

With the SR Series G7+, Automatic Database Updates powered by Cirrus IQ PRO are now available through a subscription in the Cirrus IQ app for connected aircraft owners. Automatic Database Updates allow owners to receive automatic avionics database updates via Wi-Fi or LTE to ensure the most current and accurate data for navigation. These updates can occur while the aircraft is powered off and the owner is away from the aircraft. When the aircraft is powered up, essential databases are automatically synchronized across compatible avionics.

Runway Occupancy Awareness leverages ADS-B traffic data to predict and alert pilots of potential runway incursions from nearby airborne aircraft or other aircraft on or approaching the runway. Visual and aural alerts are provided on the pilot’s primary flight display and 3D SafeTaxi map to maximize situational awareness, a safety feature that is especially useful at busy airports.

Smart Pitot Heat is enabled by systems integration through Perspective Touch+ to reduce pilot workload and automate the flying experience. The system performs a self-test before every flight and automatically turns on or off in flight depending on outside air temperatures, making it one less system to manage.

Cirrus Safety Innovation Philosophy

Cirrus has a long history of revolutionizing aviation safety and remains steadfast in its mission to continuously innovate, remove barriers of entry and invite more people to experience Personal Aviation with safety and peace of mind built into every aircraft. From advancing avionics systems to exploring autonomous flight, Cirrus is committed to manufacturing aircraft that not only meet today’s needs but also anticipate tomorrow’s challenges.

By adding the Safe Return Emergency Autoland system to the SR Series G7+, Cirrus is helping to ensure that pilots and their passengers can travel with a greater sense of security, knowing that if there is an in-flight emergency, their aircraft has the capability to respond autonomously.



07 MAY 2025

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