The inertial reference system (IRS) provides inertial navigation data for user systems. It uses a laser gyroscope ring instead of the usual speed gyros to achieve the angular speed of roll, pitch, and yaw. The system is called a strapdown because its sensors are, in fact, directly mounted on a glider, the system is called a strapdown because its sensors are, in fact, directly mounted on a glider. The inertial reference system (IRS) includes two inertial reference units (IRUs) with an integrated system (ISU) and an integrated navigation computer (INC). The IRUs, one for each wing, provide the IRS with the attitude, navigation, and flight control data. The ISU is mounted on the fuselage and provides the IRS with the necessary electrical power and data processing for the IRS to function properly. The INC is mounted on the fuselage and provides the IRS with the necessary electrical power and data processing for the IRS to function properly. The INC is mounted on the fuselage and provides the IRS with the necessary electrical power and data processing for the IRS to function properly.

The IRS provides inertial navigation data to the user system by providing the necessary electrical power and data processing for the IRS to function properly. The INC is mounted on the fuselage and provides the IRS with the necessary electrical power and data processing for the IRS to function properly. The INC is mounted on the fuselage and provides the IRS with the necessary electrical power and data processing for the IRS to function properly. The INC is mounted on the fuselage and provides the IRS with the necessary electrical power and data processing for the IRS to function properly. The INC is mounted on the fuselage and provides the IRS with the necessary electrical power and data processing for the IRS to function properly. The INC is mounted on the fuselage and provides the IRS with the necessary electrical power and data processing for the IRS to function properly. The INC is mounted on the fuselage and provides the IRS with the necessary electrical power and data processing for the IRS to function properly. The INC is mounted on the fuselage and provides the IRS with the necessary electrical power and data processing for the IRS to function properly. The INC is mounted on the fuselage and provides the IRS with the necessary electrical power and data processing for the IRS to function properly. The INC is mounted on the fuselage and provides the IRS with the necessary electrical power and data processing for the IRS to function properly.