

The Unmanned Surface Vessel used in Hydrographic Surveying

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SUMMARY

This presentation is about a project case in Changjiang River, using unmanned surface vessel (USV) for hydrographic surveying.

Changjiang River is the longest river in China, The water flow speed is very high, and the shore side shallow water is also very difficult to reach. The traditional surveying technology using a normal vessel with human driving, it's very dangerous and can not reach the shallow water. USV system is perfectly suitable for this case.

The USV system is an integrated system combining echosounder, GNSS receiver and other sensors carried on the unmanned vessel. It realized the remote control and auto steering in the water. The data is transferred to the computer by real-time.

With this USV system, it improved the working efficiency and safety.