

# CENTRE FOR JOINT WARFARE STUDIES



## CENJOWS

### CHINESE AUTONOMOUS UNDERWATER VEHICLE: HSU-001

1. **China's Navy Unveils Its First Ever Large Displacement AUV.** China unveiled its first ever autonomous underwater vehicle (AUV) HSU-001 during its National Day celebration Military Parade on 01 October 2019. The US Navy calls this type of vessels as Large Displacement Unmanned Underwater Vehicle (LDUUV), which is large enough to carry smaller AUVs, or weapons such as mines or torpedoes. They also have sufficient range to loiter in the enemy's backyard for days. At the same time, they are still small enough to be carried to where they are needed by a regular submarine, patrol boat or even a large helicopter, such as those that will be carried aboard China's new amphibious Assault ships (LHDs).



2. However, some analysts suggest that it could be primarily useful for intelligence gathering, since it is not large enough carry large combat payloads in addition to the engine, batteries, and electrical systems that would be necessary to travel underwater for a prolonged period of time. It also doesn't really look like it's made for mine-laying.

The masts atop the drone would be used to transmit intelligence back to the PLA Navy via satellite.

3. **Comments.** The AUV is a strategically smart investment for China because it can be deployed from the mainland, or from one of its many island bases in the South China Sea. The AUV may also have thrusters that would allow it to maintain steady depth in water or move vertically up or down, as well as sideways. The flat nose indicates that it may be equipped with relatively large sonar to detect underwater targets. Its retractable surveillance devices are similar to periscopes. Small rounded protrusions on either sides in forward part of the hull may be part of a homing system that allows tracking of underwater objects.

**Source:** <https://southfront.org/china-unveils-its-first-ever-autonomous-underwater-vehicle/>

4. **Chinese military Showcases GJ-11 stealth attack drone.** The Gongji-11 (GJ-11) stealth attack drone, capable of attacking strategic targets without being detected, was showcased for the first time at the National Day parade on 01 Oct 2019, Featuring a flying wing aerodynamic design similar to the US B-2 strategic bomber, the GJ-11 is reported to be able to fly at 200 km per hour, with an endurance of 40 hours. Since Major General Tan Min, Executive Deputy Director of the Military Parade Joint Command Office said at a press conference prior to the parade that all weapon systems on display were in active service, it indicates that GJ-11 stealth UAV is already part of the Chinese PLA.



5. **Comments.** The UAV is believed to have strong stealth capability, enabling it to sneak deep into enemy territory undetected and launch strikes with weapons carried in its weapons bay. Military observers speculated that the GJ-11 is the final version of the Lijian, or Sharp Sword stealth drone that made its first test flight in 2013, due to similarities.

**Source:** <http://www.globaltimes.cn/content/1165939.shtml>