华巽云科技投资控股（青岛）集团有限责任公司

水域救援无人船

型号：HXY-Ⅱ | 品牌：CETIG 华巽云



产品简介

水域救援无人船 · HXY-Ⅱ

华巽云科技投资控股（青岛）集团有限责任公司
0532-84123835（工作日 08:00–17:30） | huaxunyun2021@163.com | 山东省青岛市黄岛区海军路 1000 号
www.cetig.cn

本说明书内容以产品实际交付版本为准；规格如有变更，恕不另行通知。

技术参数

船体系统

船体设计：	Trimaran hull with rubbing strakes; resists Beaufort 3 wind and sea state 2; IP67 watertight
Hull length 110–130 cm; hull weight ≤ 15 kg; maximum load ≥ 40 kg	
最大船速：	≥7m/s
马达推进器：	Ducted thrusters without rudder steering; max ≥ 7,200 rpm; plug-in mounting, easy to replace, adaptable to more water conditions
数据存储：	Local (multi-channel) and remote storage ensure data is never lost
移动通讯：	Built-in eSIM + Nano dual communication module, with additional interfaces
Built-in single-beam echosounder works alongside an ADCP for simultaneous bathymetry and cross-section flow measurement,	
主控防尘防水等级：	≥IP67；
防护功能：	Automatic reverse in shallows, live video, low-battery and signal-loss auto return, and 360° omnidirectional video
Built-in mmWave radar, detection range ≥ 40 m	
测流要求（自适应水流）：	During flow measurement the vessel automatically adjusts bow attitude, heading and speed to keep a straight survey line

定位定姿系统

Main controller integrates positioning/heading board and INS module	
卫星系统：	Supports four satellite systems (BDS, GPS, GLONASS, Galileo)
单点定位精度：	Horizontal ≤ 1.5 m; vertical ≤ 2.5 m
RTK horizontal ≤ 8 mm + 1 ppm; vertical ≤ 15 mm + 1 ppm	
Heading function, accuracy ≤ 0.2° (1 m baseline)	

岸基系统

基站通讯方式：	Supports radio, network and CORS
智能遥控器作用距离：	Radio ≥ 2 km; 4G unlimited (network dependent); bridge ≥ 2 km
数据传输方式：	Supports bridge and 4G; video: 4G + bridge
控制模式：	Supports manual and automatic modes
Shore station can be a standard laptop or Windows tablet, easy to maintain and replace	

功能模块：	Autonomous navigation, vessel parameter control, multi-angle video display and coordinate transformation
Satellite base-map import for survey planning; power-on self-test	

测深系统

波束开角：	5°-8°；
测深范围：	≥0.15-300m；
最大采样率：	≥30Hz；
工作频率：	Supports 200 kHz and 25 kHz dual frequency with real-time sound-velocity correction for better environmental adaptability.
Supports Bluetooth and Wi-Fi	
测深精度：	Not less than ±1 cm + 0.1% h (h = water depth)
主机重量：	≤ 1 kg; lightweight, hull-mounted; depth measurement and shallow-water obstacle avoidance