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# 水面救援机器人（四涵道推进）HXY-S-04

## Surface Rescue Robot (Quad Ducted Thrusters) HXY-S-04

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| 型号 SKU | HXY-S-04 |
| 产品类别 | 水面救援装备 / Surface Rescue Equipment |
| 文档版本 | V1.0 · 2026-10 |
| 语言 | 中文 / English（双语） |

## 1. 产品概述 Product Overview

HXY-S-04 水面救援机器人采用两个双通道推进器（四涵道）布局，动力强劲且姿态稳定：水上空载速度≥8 米/秒、载人速度≥2.1 米/秒，拖拽力≥1000kg，可快速抵达并拖带落水者返航。续航≥90 分钟，遥控距离≥2 公里，遥控器待机≥20 小时，GPS 定位，IP68 防水等级，支持从 30 米高空抛投入水。

The HXY-S-04 uses two dual-channel thrusters in a quad-ducted layout for strong, stable propulsion: 8m/s unloaded, 2.1m/s loaded and 1,000kg+ of towing force reach casualties fast and bring them home. Endurance runs 90+ minutes, remote range 2km, transmitter standby 20+ hours, with GPS positioning and IP68 waterproofing — drop it from 30m straight into action.

可选配图传功能，实时回传搜救画面；还可通过遥控器远程开关照明灯，为夜间搜救提供照明。整机重量≤12kg，两人即可抬运，是专业救援队伍的全天候水面救援平台。

Optional video transmission relays live search footage, and the lighting system can be switched on from the transmitter for night SAR. At ≤12kg total, two operators can carry it easily — an all-weather rescue platform for professional teams.

## 2. 核心特点 Key Features

- **四涵道动力**：双双通道推进器，动力强劲
  **Quad-duct power**: dual dual-channel thrusters
- **高速抵达**：空载航速≥8米/秒
  **Fast arrival**: ≥8 m/s unloaded
- **强力拖拽**：拖拽力≥1000kg
  **1,000kg+ towing force**:
- **超长续航**：≥90分钟
  **90+ minutes endurance**:
- **夜视搜救**：可选遥控照明灯，夜间搜救照明
  **Night SAR**: optional remote-controlled lighting
- **实时图传**：可选图传功能实时回传画面
  **Live video**: optional real-time transmission
- **IP68防水**：30米高空投落无忧
  **IP68**: drop from 30 m without worry

## 3. 技术规格 Technical Specifications

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| 推进<br>Propulsion | **两个双通道推进器（四涵道）（Two dual-channel thrusters (quad ducted)）** |
| 续航时间<br>Endurance | **≥90min** |
| 浮力<br>Buoyancy | **≥390N** |
| 水上拖拽力<br>Towing Force | **≥1000kg** |
| 水上空载速度<br>Unloaded Speed | **≥8米/秒（≥8 m/s）** |
| 载人速度<br>Loaded Speed | **≥2.1米/秒（≥2.1 m/s）** |
| 总重量<br>Total Weight | **≤12kg** |
| 投落高度<br>Drop Height | **≥30米（≥30 m）** |
| 防水等级<br>Waterproof Rating | **IP68** |
| 电池容量<br>Battery Capacity | **≥26Ah** |
| 遥控距离<br>Control Range | **≥2.0公里（≥2.0 km）** |
| 遥控器待机时间<br>Transmitter Standby | **≥20h** |
| 定位模式<br>Positioning | **GPS** |
| 可选配<br>Optional | **图传功能，实时回传画面（Video transmission with live feed）** |
| 可选配<br>Optional | **遥控器远程控制照明灯开关，夜间搜救照明（Remote-controlled light for night SAR）** |
| 外形尺寸<br>Dimensions | **1100×800×200mm** |

## 4. 应用场景 Applications

- 江河、湖泊、水库等内陆水域的人员落水救援与物资投送
  Man-overboard rescue and payload delivery in rivers, lakes and reservoirs
- 近海、海岸线、港口与码头的巡逻值守与应急处置
  Patrol, standby and emergency response along coasts, harbours and piers
- 洪涝灾害、城市内涝等水域险情的快速抵近侦察
  Rapid close-range reconnaissance during floods and urban inundation

- 应急管理、海事、消防救援队伍的常态化训练与实战配备
  Routine training and operational deployment for emergency, maritime and fire rescue teams

## 5. 包装与交付 Packaging & Delivery

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| 包装方式<br>Packing | **采用瓦楞纸箱（或按需求木箱）包装，内衬防震材料，适配长途海运与空运。**<br>**Packed in corrugated cartons (or wooden cases on request) with shock-absorbing lining, suitable for long-distance sea and air freight.** |
| 交付内容<br>Delivery Contents | **主机 / 整套装备、标准配件、中文与英文说明书、合格证、保修卡。**<br>**Main unit / complete set, standard accessories, Chinese and English manuals, certificate of conformity and warranty card.** |
| 定制服务<br>Customisation | **支持 OEM / ODM、标识定制、包装定制与说明书本地化，可按项目需求配置。**<br>**OEM / ODM, logo and packaging customisation and manual localisation are available to project requirements.** |
| 质保与售后<br>Warranty & Service | **整机质保 12 个月（易损件除外），提供远程技术支持与备件供应。**<br>**12-month warranty for the main unit (consumable parts excluded), with remote technical support and spare-part supply.** |
| 认证文件<br>Certification | **可按需要提供现有认证及检测报告文件，具体以实际获证情况为准。**<br>**Existing certificates and test reports can be provided on request; actual certification status prevails.** |

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