

2026 Product Comparison Guide

MISSION
SPECIALIST
SYSTEMS

_ WRAITH
EXPEDITIONARY

_ DEFENDER

_ ALLY

_ PRO 5



| RELEASE YEAR | 2025 | 2017 | 2024 | 2019 |
|--------------------------|---|---|---|---|
| DESCRIPTION | Modular, configurable 10 thruster / 6 true DOF ROV with expeditionary platform and powerful navigation capabilities | Modular, configurable 7 thruster / 6 DOF ROV with many expansion options and strong current-handling capability | Modular 4 thruster / 4 DOF ROV designed for power and lift with an upgrade path to Defender ROV | Modular 3 thruster / 3 DOF ROV successor to VideoRay's original Pro Series ROVs |
| TOPSIDE POWER | No | Yes | Yes | Yes |
| SUBSEA BATTERY | Yes | Yes | Not currently available | No |
| LIGHTS | Selectable spot/flood LED 2 x 7600 lumens | Selectable spot/flood LED 2 x 7600 lumens | Selectable spot/flood LED 2 x 7600 lumens | Selectable spot/flood LED 2 x 7600 lumens |
| CAMERA | Ultra 4k Smart Camera NVIDIA Jetson Orin NX Processor, 1 TB SSD | Ultra 4k Smart Camera NVIDIA Jetson Orin NX Processor, 1 TB SSD Opt. rear-facing camera Perception accessories: Voys & Vaarst Cameras | Ultra 4k Smart Camera NVIDIA Jetson Orin NX Processor, 1 TB SSD | Ultra 4k Smart Camera NVIDIA Jetson Orin NX Processor, 1 TB SSD Opt. rear-facing camera |
| BASE WEIGHT | 99.8 kg (220 lbs) | 17.2 kg (38 lbs) | 13.6 kg (30 lbs) | 11.8 kg (26 lbs) |
| DIMENSIONS | 131.2 x 77.6 x 34.3 cm (51.7 x 30.6 x 13.5 in) | 71.1 x 39.4 x 23.8 cm (28.0 x 15.5 x 9.5 in) | 64.1 x 30.5 x 30.5 cm (25.3 x 12.0 x 12.0 in) | 51.5 x 33.0 x 25.7 cm (20.3 x 13.0 x 10.1 in) |
| DEGREES OF FREEDOM [DOF] | 6 DOF: Surge, Heave, Yaw, Sway, Pitch, & Roll | 6 DOF: Surge, Heave, Yaw, Sway, Pitch, & Roll | 4 DOF: Surge, Heave, Yaw, & Sway | 3 DOF: Surge, Heave, & Yaw |
| DEPTH RATING | 1,000 meters | 300 m std configuration 1,000 m+ deep configs | 300 meters | 300 meters |
| THRUST | Forward: 36.3+ kg Reverse: 18.0 kg Lateral: 9.4 kg Surface: 36.4 kg | Forward: 23.6 kg Reverse: 15.0 kg Lateral: 8.6 kg Surface: 23.1 kg | Forward: 16.8 kg Reverse: 15.0 kg Lateral: 6.1 kg Surface: 9.5 kg | Forward: 20.3 kg Reverse: 13.0 kg |
| SPEED | Forward: 4.3 kts Vertical Heave: 1.0 m/s Vertical Transit: 2.0 m/s Sway: 0.9 kts | Forward: 3.8 kts Vertical: 0.8 m/s Sway: 0.9 kts | Forward: 4.0 kts Vertical: 0.8 m/s Sway: 0.9 kts | Forward: 4.4 kts Vertical: 0.8 m/s |

| | _ W R A I T H E X P E D I T I O N A R Y | _ D E F E N D E R | _ A L L Y | _ P R O 5 |
|----------------------------|--|---|--|--|
| BOLLARD PULL | 36.4 kg | 52lbs | 50lbs | 50lbs |
| MAX RANGE | Up to 450 m with Performance Tether (PPT) Up to 1.5 km with Fiber Optic Tether and Subsea Battery Power | Up to 450 m with Performance Tether (PPT) Up to 1.5 km with Fiber Optic Tether and Subsea Battery Power | Up to 450 m with Performance Tether (PPT) | Up to 450 m with Performance Tether (PPT) |
| CONTROL SOFTWARE | VideoRay MissionLink | Greensea IQ | Greensea IQ | Greensea IQ |
| MANIPULATOR | 2-Function | 2-Function | 2-Function | 2-Function |
| INTEGRATED USBL | OceanComm M3 | Blueprint Subsea Seatrac | Not yet available | Blueprint Subsea Seatrac |
| INTEGRATED DVL | WaterLinked A125 | Nortek DVL500 Compact | WaterLinked A50 | No |
| INTEGRATED FL SONAR | Blueprint Oculus Multibeam | Blueprint Oculus Multibeam Tritech Gemini Multibeam | Blueprint Oculus Multibeam | Blueprint Oculus Multibeam |
| INTEGRATED SIDE SCAN SONAR | Not currently available | Marine Sonic ARC Scout MKII <i>Available 2026</i> | No | No |
| ROV GPS / GNSS | No | Yes | No | No |
| MAX LIFT PILOTING | 36.3 kg (80.0 lbs) manipulator payload | 9.5 kg (20.9 lbs) manipulator payload | 10.0 kg (22.1 lbs) manipulator payload | 1.4 kg (3.1 lbs) manip payload |
| MAX RETREIVAL | >100 lbs | >100 lbs | >100 lbs | >100 lbs |
| SUPPORTED ACCESSORIES* | Factory-integrated accessories and sensors not yet available | Cathodic Protection Gauge Ultrasonic Thickness Gauge Flooded Member Gauge Water Quality Sonde NDT Cleaners Industrial Cutter 3 to 7-Function Manip MCM/UXO | Factory-integrated accessories and sensors not yet available | Cathodic Protection Gauge Ultrasonic Thickness Gauge Flooded Member Gauge Water Quality Sonde |
| WEBSITE VideoRay.com | /Products/Mission-SpecialistWraith | /Products/Mission-SpecialistDefender | /Products/Mission-SpecialistAlly | /Products/Mission-SpecialistPro5 |

* Some sensor data does not display or record in Greensea IQ interface and requires an external PC; contact VideoRay for more information.