Accessory Compatibility Guide

VideoRay

You can customize your VideoRay Mission Specialist vehicle with a variety of options, and we've provided an Accessory Compatibility chart to assist you. This chart compares the Defender, Ally, and Pro 5 models with various third-party products to help you choose compatible accessories and components for your needs.

Key

- ✔ Compatible with Factory or Component Integration
- ⚡ External PC and Accessory Software Required
- ✖ DIY Compatibility
- ⚠ Not Recommended or Supported
- ⚙ UDEV Rules Software Configuration Required
- 👁 Displayed in separate window on PC, cannot be viewed or recorded through Greensea

ACCESSORY/MODULE	DEFENDER	ALLY	PRO 5	NOTES
CONFIGURATION OPTIONS	Mission Specialist controller, power, tether, and reel configurations			
WORKHORSE CONTROL CONSOLE	✔	✔	✔	Our original topside configuration
WORKHORSE SPLASHPROOF CONTROLLER	✔	✔	✔	IP65 rated and several configurations
PERFORMANCE TETHER (PPT)	✔	✔	✔	Neutral Buoyancy - 635kg Breaking Strength 60 Mbps, O.D.: 9-10mm, TEMP: -40 - +80C Range: 400m ETDS Reel, 450m Loose
NEUTRAL TETHER	✔	✔	✔	Neutral Buoyancy - 454kg Breaking Strength 60 Mbps, O.D.: 11.7mm, Temp: -40 - +80C Range: 300m ETDS Reel, 400m Loose
NEGATIVE TETHER	✔	✔	✔	Neutral Buoyancy - 170kg Breaking Strength 60 Mbps, O.D.: 4.4mm, Temp: -40/+80C Range: 500m Expeditionary Reel
EXPEDITIONARY TETHER	✔	✔	⚠	Neutral Buoyancy - 170kg Breaking Strength 60 Mbps, O.D.: 4.4mm, Temp: -40/+80C Range: 500m Expeditionary Reel
FIBER OPTIC TETHER	✔	⚠	⚠	Neutral Buoyancy - 300kg Breaking Strength 1 Gbps, 100 Mbps, O.D.: 4.5mm, Temp: -40/+80C Range: 500m Expeditionary Reel, 1.5km Fiber Reel or 2km+ Loose/Bag
HYBRID FIBER OPTIC TETHER	✔	⚠	⚠	Negative Buoyancy - 726kg Breaking Strength 1 Gbps, 100 Mbps, O.D.: 12-17mm, Temp: -40/+80C Range: 500m VR Hybrid Reel or 1.25km Loose/Custom Reel
EXTENDED TDS REEL	✔	✔	✔	Manual wind, retractable handle, custom slip ring, and hard-sided case
EXPEDITIONARY REEL	✔	✔	⚠	500 m of 4.4 mm Copper or 4.5 mm Fiber Optic tether, IP65, Removable handle, Level wind, Battery SOC meter
SUBSEA BATTERIES	✔	✔	⚠	Subsea ROV power in Li-Ion or NiMH and 300 or 1,000 meter ratings

ACCESSORY/MODULE	DEFENDER	ALLY	PRO 5	NOTES
MULTIBEAM SONAR	Transmits/receives multiple acoustic beams for detailed real-time seafloor and target imaging			
BLUEPRINT OCULUS M750D SONAR	✓	✓	✓	Forward-looking SONAR with 750kHz/ 1.2MHz frequencies at 120/40m range
BLUEPRINT OCULUS M1200D SONAR	✓ 🔌	✓	✓ 🔌	Forward-looking SONAR with 1.2MHz/ 2.1 MHz frequencies at 40/10m range
BLUEPRINT OCULUS M3000D SONAR	✓ 🔌	✓	✓ 🔌	Forward-looking SONAR with 1.2MHz/ 3.0 MHz frequencies at 30/5m range
TELEDYNE BLUEVIEW M900 SONAR	✓ 🔌	⚠	✓ 🔌	Forward-looking SONAR with 900kHz frequency at 100m range
TRITECH GEMINI 720/1200 SONAR	✓	⚠	✓	Forward-looking SONAR with 720kHz frequency at 120m range
SCANNING SONAR	Active sonar for real-time navigation and target imaging up to 360˚ around the ROV			
TRITECH MICRON DST SONAR	✓ ✕ 🔌	⚠	✓ ✕ 🔌	Scanning SONAR centered on 700kHz frequency up to 360˚ at 75m
MANIPULATORS	Performs tasks like cutting, sampling, rigging, and retrieving in multiple configurations			
REACH ALPHA DUAL FUNCTION MANIPULATOR	✓ ⚠	✓	✓	Rotating manipulator with several effector options
EDDYFI INUKTUN DUAL FUNCTION MANIPULATOR	✓	✓	✓ ⚠	Robust rotating manipulator with several quick-change effector options
STANDARD SINGLE FUNCTION MANIPULATOR	✓ ⚠	✓	✓	Our original manipulator with a standard effector
REACH ALPHA 3, 4, 5	✓	⚠	⚠	3, 4, and 5-function manipulator arms with several effector options and control software
REACH X 7-FUNCTION MANIPULATOR	✓	⚠	⚠	Seven-function single or dual AIS manipulator arms with several effector options and control software
POSITIONING & NAVIGATION	Sensors using various positioning technologies to track and maintain GNSS positioning			
BLUEPRINT SEATRAC LIGHTWEIGHT USBL	✓ ⚙	⚠ ⚙	✓ ⚙	High accuracy USBL acoustic positioning systems for real-time ROV and diver tracking, 300m depth rating
BLUEPRINT SEATRAC STANDARD USBL	✓ ⚙	⚠ ⚙	✓ ⚙	High accuracy USBL acoustic positioning systems for real-time ROV and diver tracking, 2,000m depth rating
TRITECH MICRONNAV USBL	✓	⚠	✓	Small ROV and diver support USBL acoustic positioning system, 750m depth rating
NORTEK DVL500	✓	⚠	⚠	Superior bottom tracking in a compact design, 175m range, 300m depth rating
WATER LINKED A50 DVL	⚠	✓	⚠	Compact DVL with outstanding performance, 50m range, 300m depth rating
TRITECH MICRON ECHOSOUNDER	✓ 👁	⚠	⚠	Robust altimeter providing height off the seabed, 75m range, 750m depth range

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AUXILARY CAMERAS	Add alternative views and perspectives of the ROV's surroundings			
ATLANTAS STORM IP CAMERA	✓	✕ ⊘	✓ ⊘	Plug-n-play fixed-focus HD camera with 720 or 1080p video stream and PIP display
SEAMOR SD EXTERNAL CAMERA	✓ ⊘	⊙ ⊘	✓ ⊘	Standard definition positionable camera, 600m depth rating
GOPRO EXTERNAL CAMERA	✓	✓	✓	Integrated mount for housing GoPro HERO
INSPECTION AND NDT	Safely evaluate materials and infrastructure without damage or exposing divers to hazardous environments			
IMPACT SUBSEA FMD	✓ ⚡	⊙	⊙	Flooded Member Detector for ROV/Diver use, 500 kHz standard, 400-600 kHz selectable, 100/200m cable options
CYCLONE CP SYSTEM	✓ ⚡	⊙	✓	Contact, proximity, and cell-to-cell cathodic protection readings, 500m depth rating
CYGNUS UT GAUGE	✓ ⚡	⊙	✓	Multiple echo mode for accurate thickness readings, 500m depth rating
EXO2 WATER QUALITY SONDE	✓ ⚡	⊙	✓	Multiparameter water quality sonde with 7 sensor ports, optional depth sensor, and battery compartment. 250m depth rating
LASER SCALER	✓	⊙	✓	Laser beams for accurate FOV measurements and reference
CAVITATION CLEANER	✓	⊙	⊙	Underwater cleaning for inspection and maintenance with minimum impact on coatings and surfaces
3D MODELING				
VOYIS DISCOVERY MONO	✓ ⚡	⊙	⊙	4k smart camera integrated with Nova Mini LEDs that provides an ultra-wide FOV. 300m depth rating
VOYIS DISCOVERY STEREO	✓ ⚡	⊙	⊙	4k stereo camera for real-time 3D reconstruction with EIVA VSLAM software. Up to 4,000m depth rating
VOYIS PERCEPTION SKID	✓	⊙	⊙	Pre-integrated skid that incorporates required sensors for accessible dynamic laser scanning and image mapping
VAARST SUBSLAM	✓ ⚡	⊙	⊙	4k stereo imagery with live and post-processed photogrammetry with live stream capability for remote teams
CODA OCTOPUS	✓ ⚡	⊙	⊙	Real-time 3d sonar solution specializing in underwater construction/inspection industries
MINE NEUTRALIZATION	Upon identificaiton/classification, safely neutralize/destroy underwater mines or other UXO.			
ECS VIPER MDS	✓	⊙	⊙	Cost-effective unit for neutralization and disposal of mine/IED/UXO ordnance.
ZERO POINT TITAN	✓	⊙	⊙	12 gauge firing system for mine/IED/UXO disruption
SONARDYNE IT 6	✓	⊙	⊙	Wireless acoustic initiation transponder for use with other mine/IED/UXO neutralization devices
ATLANTAS TORNADO	✓	⊙	⊙	Through-tether firing device that enables safe, remote activation of electrical detonators and disruptors

212 East High Street, Pottstown, Pennsylvania, USA | +1 (610) 458-3000 | sales@videoray.com | **VideoRay.com**   3 of 3

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