2026 Accessory Compatibility Guide

VideoRay AN AVS COMPANY

Customize your VideoRay Mission Specialist ROV configuration with a variety of accessory and sensor options! This Accessory Compatibility Guide is designed to help you choose which system configuration works best for your operational and mission needs.

This chart compares the Defender, Ally, and Pro 5 models and includes most VideoRay-integrated products to help you choose topside and subsea compatible accessories and sensors.

Don't see a certain component or configuration? Contact VideoRay at sales@videoray.com

_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 PC, is not viewed/recorded in UI

_ACCESSORY/MODULE	_DEFENDER	_ALLY	_PRO 5	_NOTES
[SYSTEM CONFIGURATIONS]	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 Max Ranges: 400m ETDS Reel, 450m Loose
NEUTRAL TETHER	✓	✓	✓	Neutral Buoyancy - 454kg Breaking Strength 60 Mbps, O.D.: 11.7mm, Temp: -40 - +80C Max Ranges: 300m ETDS Reel, 400m Loose
NEGATIVE TETHER	✓	✓	✓	Neutral Buoyancy - 170kg Breaking Strength 60 Mbps, O.D.: 4.4mm, Temp: -40/+80C Max Ranges: 400m ETDS Reel, 400m Loose
EXPEDITIONARY TETHER	✓	⚠	⚠	Neutral Buoyancy - 170kg Breaking Strength 60 Mbps, O.D.: 4.4mm, Temp: -40/+80C Max Range: 500m Expeditionary Reel
FIBER OPTIC TETHER	✓	⚠	⚠	Neutral Buoyancy - 300kg Breaking Strength 1 Gbps, 100 Mbps, O.D.: 4.5mm, Temp: -40/+80C Ranges: 1.5km Fiber Reel capacity, 2km+ Loose
HYBRID FIBER OPTIC TETHER	✓	⚠	⚠	Negative Buoyancy - 726kg Breaking Strength 1 Gbps, 100 Mbps, O.D.: 12-17mm, Temp: -40/+80C Range: 500m VideoRay Hybrid Reel or Custom Reel
EXTENDED TDS REEL	✓	✓	✓	Manual wind, retractable handle, custom slip ring, and hard-sided case, flor use with topside or subsea battery power
EXPEDITIONARY REEL	✓	⚠	⚠	500 m of 4.4 mm Copper tether, IP65, removable handle, level wind, battery SOC meter, for use with subsea battery power
SUBSEA BATTERIES	✓	⚠	⚠	Subsea ROV power in Li-Ion, 300 or 1,000 meter depth ratings

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[MULTIBEAM SONAR]	Transmits/receives multiple acoustic beams for detailed real-time seafloor and target imaging			
BLUEPRINT OCULUS M750D/MT750D	✓	✓	✓	Forward-looking SONAR with 750kHz/ 1.2MHz frequencies at 120/40m ranges
BLUEPRINT OCULUS M1200D/MT1200D	✓	✓	✓	Forward-looking SONAR with 1.2MHz/ 2.1 MHz frequencies at 40/10m ranges
BLUEPRINT OCULUS M3000D/MT3000D	✓	✓	✓	Forward-looking SONAR with 1.2MHz/ 3.0 MHz frequencies at 30/5m ranges
TELEDYNE BLUEVIEW M900-2250 MK2	✓	✓	✓	Forward-looking SONAR with 900kHz/2.25MHz frequencies at 100/10m ranges
TRITECH GEMINI 1200IKD	✓	✓	✓	Forward-looking SONAR with 720kHz/1.2MHz frequencies at 120/50m ranges
[SIDE SCANNING SONAR]	Transmits/receives acoustic beams to the sides of the ROV, generally used for larger-area imaging			
MARINE SONIC ARC SCOUT MKII *2026 standard integration, check for availability*	✓	✓	✓	Side scan SONAR with 150kHz - 1.8 MHz options with user-friendly software for detection, inspection, and survey operations
[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/BRAVO 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, 2km 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, ~100m range, 300m depth rating standard, 6km optional
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
LATERAL FLEXICLEAN	✓	✓	✓	Rotating subsea tool for fast and efficient cleaning
CAVITATION CLEANER	✓	✓	✓	Underwater cleaning for inspection and maintenance with minimum impact on coatings and surfaces
[3D MODELING]	Surveying & mapping at your fingertips			
VOYIS DISCOVERY MONO *UI display when integrated as main camera*	✓	✓	✓	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 MCM/UXO ordnance neutralization/disposal.
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

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