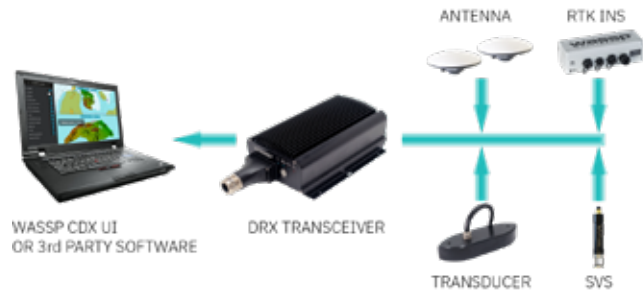# S3r
AN INTEGRATED SOLUTION

The WASSP S3r Solution is a fully integrated kit which includes all the core components required for a Multibeam Survey operation, designed to ensure functionality, ease of use and cost effectiveness, all while achieving accuracies required by international survey standards.

The S3r kit is an integrated option which includes the following components:

COMPONENT	OVERVIEW
Multibeam Echosounder Transducer	WASSP Wideband Fairing Transducer
MBES Processor (DRX)	WASSP IP66 DRX-32
RTK INS Sensor	Position, Heading, Pitch, Roll & Heave
Antenna	Dual Antenna GNSS RTK
SVS Antenna	Sound Velocity
UI	WASSP CDX with RPM
System Wiring Cables	Power, Ethernet, Sensor & Antenna

The WASSP S3r Solution integrates with a range of 3rd party software platforms including:

THE WASSP S3r PACKAGE SPECIFICATIONS

IP66 DRX-32		
	Water resistant IP66 black box processor	Depth range 1-300m
	9-12VDC 30w/2.5Ah consumption @12VDC	IP66 Gland Attachment included
	Ping Rate upto 100 times per second	Includes Cabling

WIDEBAND FAIRING TRANSDUCER		
	Centre Frequency adjustable by kHz from 120-200kHz	Optional Fairing block for Hull fitting Cable
	Chirp Range upto +/- 30kHz	Optional Plate for Pole fitting
	WASSP Operation up to 20kn	Cable Length - 5m/10m/20m

RTK INS SBG SYSTEMS		
	Ellipse Dual Antenna RTK GNSS / INS	Immune to magnetic distortions
	0.05° Roll and Pitch (RTK)	1 cm RTK GNSS Position
	0.2° Heading (Dual Antenna RTK GNSS L1/L2) Heave accuracy – 5cm or 5%	

SVS VALEPORT		
	Range: 1375 - 1900m/s	Voltage: 9 - 28V DC
	Resolution: 0.001m/s	Power: 0.25W (SV) 0.35W (SV+Pressure)
	100mm: Total max theoretical error ±0.017m/s	

CDX WITH RPM		
	Visualisation, Data processing & Control UI	RPM module can be run standalone with 3rd party software
	Data management	
	Automatic inbuilt Notification system	

SURVEY LICENSE	
	Includes an uncorrected data format that is required for interfacing to third party software such as HYPACK, BeamworX, QINSy, EVIA and WASSP Data Manager GSF output.

PACKAGE OPTIONS

The S3r solution package can be configured with a number of different options depending on your current component and boat configuration. Contact us to discuss a tailored package according to your needs