

# CETACEAN RESEARCH TECHNOLOGY

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## SpectraPLUS Features and Specifications

Key Feature	SpectraPLUS-RT	SpectraPLUS-SC	SpectraPLUS-DT
Hardware Supported	Multimedia Sound Cards	Multimedia Sound Cards	Data Translation DT-9800 Industrial A/D modules
Maximum Sampling Rate	200 kHz*	200 kHz*	2.0 MHz*
Maximum Channels	2	2	16
Maximum Sampling Precision	24 bit*	24 bit*	24 bit*
Composite Channels (Transfer Function, Multichannel average, etc)	0	1	16
Supported Modes	Real Time	Real Time, Record/Playback, Post Process	Real Time, Record/Playback, Post Process
Available Displays	Spectrum	Time Series, Spectrum, Phase, Spectrogram, 3-D Surface	Time Series, Spectrum, Phase, Spectrogram, 3-D Surface
Frequency Resolution	Fixed FFT size, 1/1 Octave, 1/3 Octave	Selectable FFT size, 1/1 through 1/96 Octave	Selectable FFT size, 1/1 through 1/96 Octave
Input Gain	Variable* (4 fixed steps#)	Variable* (4 fixed steps#)	Fixed Steps*
Calibrated Inputs	Uncalibrated (Volts or Millivolts#)	Uncalibrated (Volts or Millivolts#)	Volts or Millivolts
Calibration to Transducer	Use external reference signal (use transducer sensitivity#)	Use external reference signal (use transducer sensitivity#)	Use actual transducer sensitivity or external reference signal
Transducer Power	Phantom* (IEPE#)	Phantom* (IEPE#)	IEPE*
Triggering	No	Analog Input	Analog or TTL with User Accept/Reject option
Tachometer channel support	No	No	Yes
Order Analysis	No	No	Yes
Automation Support	No	Yes	Yes
* Hardware dependent #When SpectraDAQ-200 is used			