



Cariboo Chilcotin Divers Ltd.

Serving Industry Throughout Canada



Cariboo Divers Cygnus DIVE is simple to operate, providing accurate and reliable thickness measurements, underwater. Depth rated to 300 metres and works equally as well above the surface.

Available with data logging, topside, HelmetView™ and twin crystal probe options.

MSI™ Measurement Stability Indicator - this is a feature exclusive to the Cygnus. When using the DIVE Gauge in Single-Echo and Echo-Echo modes, MSI™ confirms when a reading is stable by turning the thickness measurement numbers from red to yellow.

Specification

Display	2.8" quarter VGA colour AMOLED (320 x 240 pixels) Large clear thickness measurement (15 mm high numbers), viewable from all angles A-Scan display with automatic X axis Battery level, signal strength, probe type, velocity Measurement mode and units indication
Battery	Single 3.6V Li-ion 8.2 W battery 11 hours continuous measurement Low battery warning 'alert' message
Measurement Modes	Multiple-Echo (three back-wall echoes) using Single Crystal (zero-degree) probes automatically ignores surface coatings and measures only metal thickness Echo-Echo (two back-wall echos) using Twin Crystal probes Single-Echo (first back-wall echo) using Twin Crystal probes
Deep Coat	In Multiple-Echo mode, allows measurement to be made through thicker coatings of suitable materials of up to 20 mm thick
Accuracy	± 0.1 mm (± 0.004 ") or 0.1% of thickness measurement, whichever is greatest, when calibrated in accordance with Cygnus Instruments calibration procedure
Probes	Single Crystal probes: 2.25 MHz 13 mm (standard) S2C

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	2.25 MHz 19 mm S2D 3.5 MHz 13 mm S3C 5.0 MHz 6 mm S5C
Probe Cables	Twin Crystal probes: 2.0 MHz 13 mm x2 (for some plastics e.g. outfall pipes) T2C 5.0 MHz 8 mm x2 (standard) T5B Double outer jacket in tough PU. Coloured yellow for easy locations underwater. Coiled for ease of use. Fischer S105 series connectors. Multiple-Echo (through coatings) with Single Crystal probes: 2.25 MHz = 3.0 to 250 mm 3.5 MHz = 2.0 to 150 mm 5.0 MHz = 1.0 to 50 mm
Measurement Ranges	Echo-Echo with Twin Crystal probes: 5.0 MHz = 4.0 to 50 mm in steel 2.0 MHz = 6.0 to 50mm in steel Single-Echo with Twin Crystal probes: 5.0 MHz = 2.0 to 100 mm in steel 2.0 MHz = 3.0 to 150 mm in steel 0.1 mm - Low resolution mode or measurement >99.95 mm 0.05 mm - High resolution mode and measurement <100.0 mm 0.01 mm - Single-Echo mode only and measurement <100.0 mm 0.05 mm - High resolution mode and measurement <100.0 mm 0.01 mm - Single-Echo mode only and measurement <100.0 mm
Measurement Resolution	mm or inches
Measurement Units	
Probe Zero	Fully automatic probe zeroing for all probes types
V-Path Correction	Automatic V-Path correction for all Twin Crystal probes
Velocity Range	2000 to 9000 m/s in 1 m/s setps
Pulser	Twin channel 70 V spike pulser
Receiver / Amplifier	10 MHz bandwidth, 120 dB range, automatic TCG 60 MHz measurement time-base
Data Logging	One-handed automatic logging of stable measurements. Capacity for up to 5000 points including 640 point A-Scan data.
Data Output	RS-485 single pair, half duplex for surface connection CygLink v4 allows remote logging and viewing of A-Scan graphs.
Computer Software	Survey and report generation to PDF file. Graphic analysis of data and statistical calculations. Designed for Windows 7 and Windows 8.