

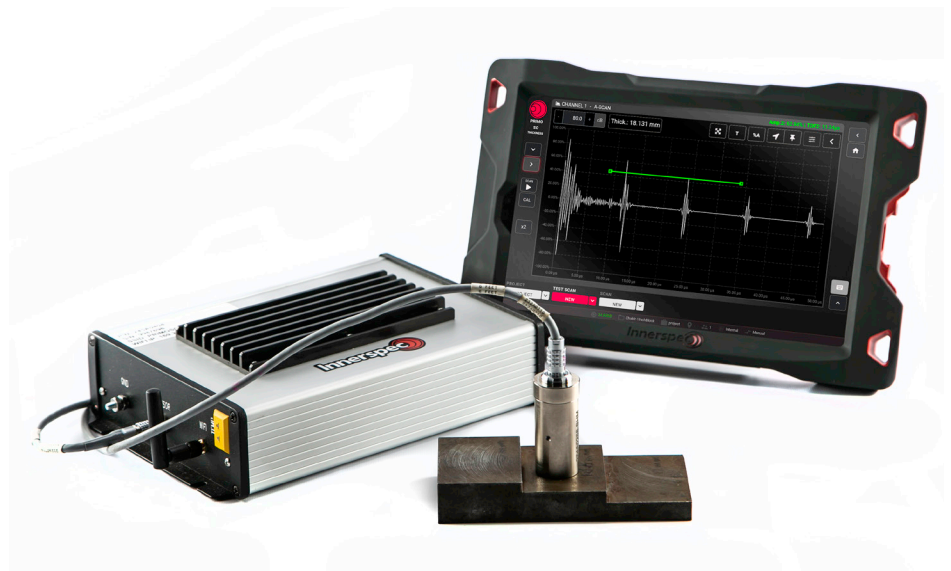
PRIMO SC

Thickness Measurement | Flaw Detection
Material Properties Measurement

PRIMO SC is a compact high-power UT instrument capable of generating very high voltages and long bursts of energy using a patent pending ultrasonic pulser-receiver. PRIMO SC is used mainly for normal beam applications using both Electro-Magnetic Acoustic Transducer (EMAT) and Dry-Coupled Ultrasound (DCUT) transducers. PRIMO SC runs on Innerspec Technologies Operating Platform (ITOP) using our NDT-Web™ User Interface.

Equipment Highlights

- 1 to 8 channels for normal beam EMAT applications
- Applicable for thickness measurement, 0° flaw detection, bolt-load measurement, measurement of stress, and material property measurements such as nodularity and anisotropy.
- Up to 1000Vpp per channel, 1 to 3 cycles and up to 3000 PRF for scanning speeds greater than 1 m/s with 1mm resolution
- Self-contained IP54 industrial enclosure that can be located anywhere near the point of inspection. NDT-Web™ user-interface broadcast via wireless and/or Ethernet connection to any external device -PC, Tablet- running any operating system (Windows, MAC, Linux, Android)



USA | Spain | China | Mexico

Primo SC – Technical Specifications

Ultrasonic Channels	1
Bandwidth	1.5MHz – 10MHz
Pulse Repetition Rate	up to 3000 Hz
RF Pulser	Toneburst Waveforms 8 kW Power Output 1% Maximum Duty
Receiver	Pulse-Echo Mode 1 k Ω Input Impedance 20 dB to 90 dB Gain <0.05 dB Gain Resolution
Analog / Digital Converters	14-bit, 100MHz
Filtering	FIR Digital Filters
Rectification	Full-wave, +/- half-wave, and RF mode
Evaluation Gates	Interface plus 2 Gates Amplitude and Time Measurements
Encoder Interface	A/B Quadrature (Differential or TTL)
Software	ITOP with NDT-Web™
Probe Connector	2-Pin Lemo 0B
Operating Temperature	0°C (32°F) to 40°C (105°F)
AC Power Input	100-240VAC, 50-60Hz
Other I/O	Thermocouple Input (Type K) General Purpose I/O (24V) USB-A M12-D Industrial Ethernet
Dimensions	9 ³ / ₄ "W x 6 ¹ / ₂ "H x 2 ⁵ / ₈ "T 248mm x 165mm x 67mm
Weight	1.8Kgs (4lbs)

ARORA
NDT Products & Accessories

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