

NovaScope 6000



HIGH PERFORMANCE ULTRASONIC THICKNESS GAGE



Introduction

For more than 40 years, the NovaScope series instruments have been the first choice for high precision thickness measurements.

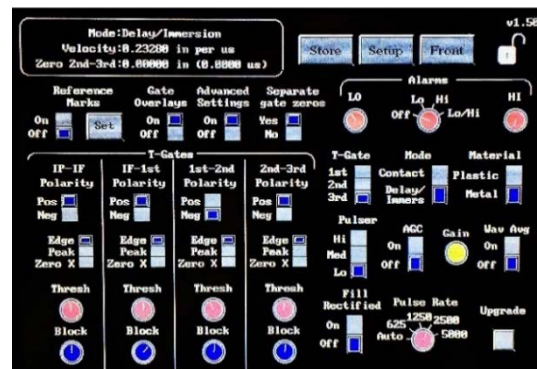
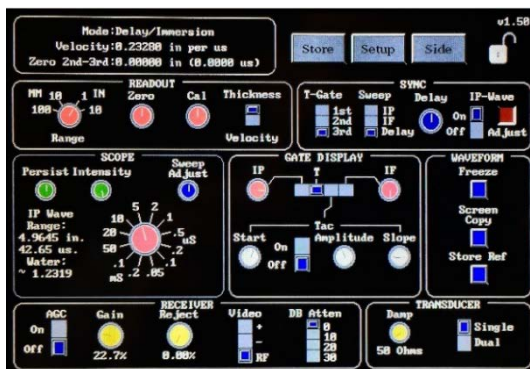
Introduced to the market in 2015, the latest iteration designated NovaScope 6000 incorporates the proven, traditional features which customers came to appreciate and rely on throughout the instrument's generations. In addition, new capabilities have been designed which offer advanced possibilities to fine-tune and customize measurement setups. The instrument is loaded with a series of parameters and adjustment options to make literally any conventional UT probe from any manufacturer work at its best. From a handling perspective, it also became battery-operated as well as lighter than ever before.

Key features

- 0.5 MHz - 30 MHz transducer frequency
- 15Ω – 350Ω adjustable damping (1Ω increments)
- Adjustable PRF up to 5000Hz
- 0.0001" resolution on 1" measurement range
- Portable and battery-operable
- Superior resolution, high-contrast color scope display
- 2GB built-in and 2GB external/removable storage
- 2-layer menu structure - simple and quick parameter access
- Control lock feature disables controls from inadvertent change

Applications

- High resolution turbine blade inspection
- Thickness measurements on investment wax castings
- Bond inspection on multi-layer composites
- Metals, plastics, composites, glass, rubber
- Corrosion, erosion, chemical-milled inspections



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Technical Specifications

General	Package	NovaScope 6000 unit, Li-Ion battery, AC charger (110-240V), User manual, COC
	Dimensions	6.5in x 11.5in x 13in, 16lbs 165mm x 292mm x 330mm, 7.3kg *Inclusion of tilt handle increases the W to 13.5"(343mm)
	Power source	Li-ion battery (4 hours autonomy) or AC power (110/220V)
	Operating temp.	32 F - 122 F (0 °C to 50 °C)
	Storage temp.	-4 F - 140 F (-20 °C to 60 °C)
	Connector type	Dual BNC
Display	Scope screen	5.7" High Contrast TFT portrait orientation adjustable brightness and persistence
	Control screen	5.7" TFT including Touch Screen Control landscape orientation
	Units	Inch/mm
Transducer	Type	Single and dual element Contact, Delay, Immersion, Through-transmission
	Frequency	0.5 MHz - 30 MHz
Performance	Thickness	0.005" – 99.999"
	Resolution	0.0001" on 1" range +/- 0.001mm on 10mm range 0.001" on 10" range +/- 0.01mm on 100mm range
	Velocity	0.0010 in/us - 1.0000 in/us
Modes	Presentation	Dual A-Trace, A-Trace plus selectable gate traces - IP, IF, T or TAC
	Gating style	Step Gate + Bar Block/Measure
Pulser	Pulser voltage	125V (low), 170V (medium), 250V (high)
	PRF	625Hz, 1200Hz, 2500Hz, 5000Hz
Receiver	Receiver Gain (no AGC)	72dB (AGC – Automatic Gain Control)
	Receiver Gain (AGC)	40dB dynamic range, 72dB (AGC – Automatic Gain Control)
	Damping	15Ω - 350Ω (1Ω increments)
	Attenuator	0dB, 10dB, 20dB, 30dB (selectable)
	Bandwidth	30MHz at -3dB
	Display modes	RF, +HW, -HW, FW
	Sweep width	Switchable down to 50ns, continuously variable down to 33ns
	Reject	Variable threshold to 80%
Gates	T-gate	Adjustable sync 1-80us, selectable on positive or negative half cycles
	IP-gate	0.25us – 25us, 1.0us - 90us on delay and immersion
	IF-gate	0.1us – 8.0 us
	TAC gate	Start control 0.2us – 6us, amplitude control 0dB - 17dB, Slope control 1us – 50us
	Multiple gates	IP-1 st , 1 st -2 nd , 2 nd -3 rd IP blocking, IF blocking, IF-1 st blocking, 1 st -2 nd blocking
	Start/stop trigger	Neg-Neg, Neg-Pos, Pos-Neg, Pos-Pos half cycles
Alarms	Modes	Low, High, Low & High
Outputs		Alarms, IP sync, analog thickness out, high-speed binary (compatible with previous Novascope generations), VGA (Control touch screen), Micro HDMI (Scope display), USB, RS232
Storage	Internal	2GB
	External	2GB SD Card (included)
Options	External switches	Foot switch, hand switch



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