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MIZ-21C

Delivering an Inspection Advantage

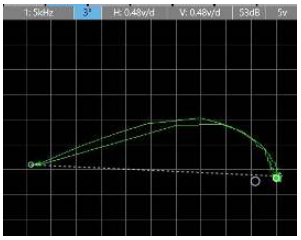
ZETEC
THE INSPECTION ADVANTAGE

Category	Feature	MIZ-21C	Nortec-600	MIZ-21C Advantages
Instrument Form Factor	Size	**267 × 122 × 38 mm (10.5 × 4.8 × 1.5 in)**	236 x 167 x 70 mm (9.3 x 6.57 x 2.76 in)	• **Smaller: Makes one handed control possible**
	Weight	**1.2 kg (2.6 lb)**	1.7 kg (3.75 lb)	• **Lighter: Reduces user fatigue**
	Ergonomics	**Single-hand operation with ambidextrous controls**	Need two hands to operate, has limited ambidextrous controls	• **Easier to perform inspections in difficult to reach areas**
	Touchscreen	✓	✗	• **Intuitive: Easier and faster to use**
	Eddy Current Array	✓	✗	• **Wider coverage for faster inspections** • **Provides 3D view of data** • **Better assists flaw morphology**
Eddy Current Technology	Gain	**10 dB to 123 dB**	0 dB to 100 dB	• **Greater ability to use digital gain which increases resolution while maintaining signal to noise and preventing probe saturation**
	Drive voltage	**Up to 12 Vpp (19 Vpp for ECA) in 0.1 volt increments**	3 settings: Low(2V)/ Med(5V)/High(8V)	• **Higher voltage for increased probe sensitivity and higher signal to noise ratio** • **Ability to set any voltage for fine tuning of a probe**
	Signal to noise (1 Ω Impedance change signal)	**40:1**	5:1	• **Higher data resolution** • **Increase probability of detection**
	Independent filter settings/frequency	✓	✗	• **Configure each channel separately to find exactly what you are looking for**
C-Scan/Waterfall	High resolution, color C-scans	✓	✗	• **Easily identify different layers for bolt hole inspections** • **Easily see flaws** • **Increase probability of detection**
Signal Calibration	Buffer to review and calibrate data	✓	Freeze function to freeze screen image. Gain and angle adjustments will alter the image to estimate the effect.	• **Very accurate signal calibration** • **Adjust filters and evaluate the effect on the signal** • **Adjust calibration parameters without the need to continuously scan data**
Storage	Ability to store data files	**60 s or 10 meters**	Only whatever is on the screen at the current time	• **Save data for analysis or for archival purposes** • **Storage buffer enables inspection completion by a single technician**

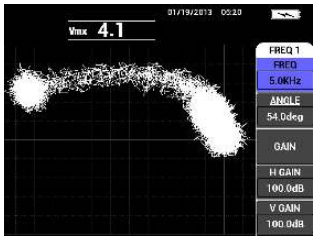
Signal to Noise Ratio Comparison

For a given change in impedance, the MIZ-21C has a significantly higher signal to noise ratio. This is due in part to the fact that the MIZ-21C does not require as much gain as the Nortec 600. The example to the right is a 1 Ω signal (lift-off) across 10 divisions. The Nortec 600 uses 100 dB of gain and the MIZ-21C uses just 53 dB of gain to produce an equivalent signal. The signal to noise ratio is 5:1 for the Nortec 600 and 40:1 for the MIZ-21C.

1 Ω signal across 10 divisions



MIZ-21C
53 dB Gain
40:1 Signal to Noise Ratio



Nortec 600
100 dB Gain
5:1 Signal to Noise Ratio