

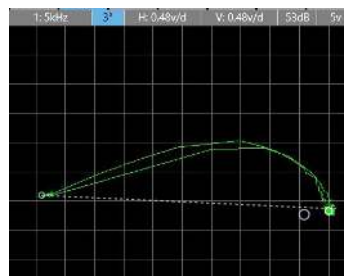


| Category | Feature | MIZ-21C | Nortec-600 | MIZ-21C Advantages |
|-------------------------|---|---|---|---|
| Instrument Form Factor | Size | 267 × 122 × 38 mm (10.5 × 4.8 × 1.5 in) | 236 x 167 x 70 mm (9.3 x 6.57 x 2.76 in) | <ul style="list-style-type: none"> • Smaller: Makes one handed control possible |
| | Weight | 1.2 kg (2.6 lb) | 1.7 kg (3.75 lb) | <ul style="list-style-type: none"> • Lighter: Reduces user fatigue |
| | Ergonomics | Single-hand operation with ambidextrous controls | Need two hands to operate, has limited ambidextrous controls | <ul style="list-style-type: none"> • Easier to perform inspections in difficult to reach areas |
| | Touchscreen | ✓ | ✗ | <ul style="list-style-type: none"> • Intuitive: Easier and faster to use |
| | Eddy Current Array | ✓ | ✗ | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • 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) | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • Higher data resolution • Increase probability of detection |
| | Independent filter settings/frequency | ✓ | ✗ | <ul style="list-style-type: none"> • Configure each channel separately to find exactly what you are looking for |
| C-Scan/Waterfall | High resolution, color C-scans | ✓ | ✗ | <ul style="list-style-type: none"> • 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. | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • Save data for analysis or for archival purposes • Storage buffer enables inspection completion by a single technician |

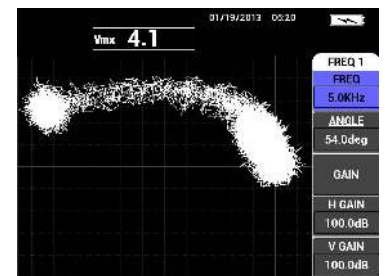
Signal to Noise Ratio Comparison

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



53 dB Gain
40:1 Signal to Noise Ratio



Nortec 600

100 dB Gain
5:1 Signal to Noise Ratio