



Product Name	GAOTek Metal Crack Detector
Product SKU	GAOTek-CRD-124
Product URL	https://gaotek.com/product/gaotek-metal-crack-detector/

Contact us: sales@gaotek.com

Based in New York City & Toronto, GAO Tek Inc. is ranked as one of the top 10 global B2B technology suppliers. GAO ships overnight within the U.S. & Canada & provides top-notch support thanks to its 4 decades of experience.



Contents

Standard Package	3
Optional accessories	3
Model	4
Specifications	4
Optional probes	6
Specifications	7



GAOTek Metal Crack Detector

GAOTek-CRD-124

Our ultrasonic flaw detectors are portable, microprocessor-based instruments that are suitable for both shop and field use. They are integrated with international advanced digital integration and new EL display technology and are smart Digital Ultrasonic Flaw Detector propelled by GAOTek. SUD series flaw detectors have almost all the functions to meet the requirements of professional applications for non-destructive testing.

Standard Package

- Main Unit ----- 1
- 2.5 MHz-20Ø straight probe ----- 1
- 4MHz 60º 8x9mm angle probe ----- 1
- Probe cable (Q9 to Q9) ----- 1
- Probe cable (Q9 to C5) ----- 1
- Power adapter ----- 1
- Data managing software ----- 1
- Interface cable ----- 1
- Test certificate ----- 1
- Operation manual ----- 1
- Carrying case ----- 1

Optional accessories

- Standard block V-1 (IIW1)
- Standard block V-2 (IIW2)
- Probe cable Q9-Q9
- Probe cable Q9-C5
- Probe cable C9-Q9
- Probe cable C9-C5
- Lithium-ion battery
- Leather sheath



Model	Specifications
Measuring range (mm)	0 to 10000, @ steel velocity
Frequency range (MHz)	0.5 MHz to 20 MHz
Pulse Repetition Frequency (Hz)	30 Hz to 1000 Hz
Display Delay (µs)	-20 µs to +3400 µs
Vertical linearity error	3%
Horizontal linearity error	0.2%
Gain (dB)	120
Probe delay / Zero offset (µs)	0.0 µs to 99.99 µs
Material velocity	1000 m/s to 15000 m/s
Sensitivity margin	≥ 62 dB
Dynamic scope	≥ 32 dB
Probe Types	single, dual, THRU
Reject (suppression)	0% to 80% full screen height
Transducer Connections	BNC (Q9)
Memory	1000 A graph
Independence setup	500
Automated display precise flaw location	Depth d, level p, distance s, amplitude, sz dB, φ
Peak hold and Peak memory	Available
Automated gain and gain scan	Available



B scan	Available
DAC	Available
AVG	Available
TCG	Available
AWS	Available
Predefined standards	13
Automated calibration (IIW)	Available
Make video	Available
Bluetooth connection to mobile	Available
Curved surface correction	Available
Crack Height Measure	Available
Pulse energy / Pulse width	Available
Gate alarm / DAC alarm	Available
Spheroidization Rate test	Available
Nominal operating time	10 hours
Typical recharge time	5.5 hours
Display	5.7 inches LED True Color
Operating temperature	-20 °C to 50 °C
Dimension HxWxD(mm)	(9.45 in x 7.09 in x 1.97 in) 240 mm x 180 mm x 50 mm
Net weight	3.97 lbs. (1.8 kg)



StandardsJB/T 10061-1999, JJG 746-2004

Optional probes

- 5MHz, 6x6mm, 45°
- 5MHz, 6x6mm, 60°
- 5MHz, 6x6mm, 70° 2MHz, 8X9mm, 45°
- 2MHz, 8X9mm, 60°
- 2MHz, 8X9mm, 70°
- 4MHz, 8X9mm, 45°
- 4MHz, 8X9mm, 60°
- 4MHz, 8X9mm, 70°
- 2MHz, 14X16mm, 45°
- 2MHz, 14X16mm, 60°
- 2MHz, 14X16mm, 70°
- 4MHz, 14X16mm, 45°
- 4MHz, 14X16mm, 60°
- 4MHz, 14X16mm, 70°
- 2MHz, 20X22mm, 45°
- 2MHz, 20X22mm, 60°
- 2MHz, 20X22mm, 70°
- 4MHz, 20X22mm, 45°
- 4MHz, 20X22mm, 60°
- 4MHz, 20X22mm, 70°
- 2MHz, 12mm, 0°
- 4MHz, 12 mm, 0°
- 2MHz, 20mm, 0°
- 4MHz, 20 mm, 0°
- 0.5MHz, 24mm, 0°
- 1MHz, 24 mm, 0°
- 2MHz, 24mm, 0°
- 4MHz, 24 mm, 0°
- 2MHz, 12 mm, 0° DUAL
- 4MHz, 12 mm, 0° DUAL
- 2MHz, 20 mm, 0° DUAL
- 4MHz, 20 mm, 0° DUAL
- 2MHz, 24 mm, 0° DUAL



- 4MHz, 24 mm, 0° DUAL
- 4MHz, 3x10mm, 45°, FD=10mm
- 4MHz, 3x10mm, 60°, FD=8mm
- 4MHz, 3x10mm, 70°, FD=6mm

Specifications

Angle probe (Single)	5MHz, 6x6mm, 45 DEGREE
	5MHz, 6x6mm, 60 DEGREE
	5MHz, 6x6mm, 70 DEGREE
	2MHz, 8X9mm, 45 DEGREE
	2MHz, 8X9mm, 45 DEGREE
	2MHz, 8X9mm, 60 DEGREE
	2MHz, 8X9mm, 70 DEGREE
	4MHz, 8X9mm, 45 DEGREE
	4MHz, 8X9mm, 60 DEGREE
	4MHz, 8X9mm, 70 DEGREE
	2MHz, 14X16mm, 45 DEGREE
	2MHz, 14X16mm, 60 DEGREE
	2MHz, 14X16mm, 70 DEGREE
	4MHz, 14X16mm, 45 DEGREE
	4MHz, 14X16mm, 60 DEGREE
	4MHz, 14X16mm, 70 DEGREE
	2MHz, 20X22mm, 45 DEGREE
	2MHz, 20X22mm, 60 DEGREE
	2MHz, 20X22mm, 70 DEGREE
	4MHz, 20X22mm, 45 DEGREE
4MHz, 20X22mm, 60 DEGREE	
4MHz, 20X22mm, 70 DEGREE	
Angle probe (Dual)	4MHz,3x10mm,45 DEG, FD=10mm
	4MHz,3x10mm,60 DEG, FD=8mm
	4MHz,3x10mm,70DEG, FD=6mm
Probe cable	Q9-Q9
	Q9-C5
	C9-Q9
	C9-C5
	Q9-Microdot
	Q9-C5 (dual)