

## AWS Standard B Scan Intelligent Portable Digital Ultrasonic Flaw Detector MFD620C



### Product Details:

<b>Place of Origin:</b>	HONG KING
<b>Brand Name:</b>	MITECH
<b>Model Number:</b>	MFD620C

### Payment & Shipping Terms:

<b>Minimum Order Quantity:</b>	1 set
<b>Packaging Details:</b>	Standard export carton box
<b>Delivery Time:</b>	Goods in stock, could send out within three days
<b>Payment Terms:</b>	100% T/T, Paypal or Wester Union
<b>Supply Ability:</b>	500 sets/month

### Detailed Product Description

## AWS Standard B Scan Intelligent Portable Digital Ultrasonic Flaw Detector MFD620C

### Ultrasonic Flaw Detector MFD620C AWS standard B scan

#### Description:

The MFD620C is an advanced digital ultrasonic flaw detector featuring a multi-color TFT LCD and a host of new features to meet challenging inspection requirements. It combines powerful flaw detection and measurement capabilities, extensive data storage, and the ability to transfer detailed inspection data to the PC via its high-speed USB port.

The instrument incorporates many advanced signal processing features including a 15MHz RF bandwidth to permit testing of thin materials, narrowband filters to improve signal to noise in high gain applications, a spike pulser for applications requiring higher frequencies, and a tunable square wave pulser to optimize penetration on thick or highly attenuating materials.

The instrument can be widely used in locating and sizing hidden cracks, voids, disbands, and similar discontinuities in welds, forgings, billets, axles, shafts, tanks and pressure vessels, turbines, and structural components.

## **Applications:**

Peak Hold:

Automatically searching the peak wave inside the gate and hold it on the display.

Equivalent diameter calculation: find out the peak echo and calculate its equivalent diameter.

Continuous Record: Record the display continuously and save it to the memory inside the instrument.

Defect Localization: Localize the defect position, including the distance, the depth and its plane projection distance.

Defect Sizing: calculate the defect size

Defect Evaluation: Evaluate the defect by echo envelope.

DAC: Distance Amplitude Correction

AVG: Distance Gain Size curve function

Crack measure: Measure and calculate the crack depth

B-SCAN: Display the cross-section of the test block.

## **Specifications:**

- Range: 0 to 6000 mm, at steel velocity
- Material Velocity: 1000 to 15000m/s
- Display Delay: -20 to 3400  $\mu$ s
- Probe Delay/Zero Offset : 0 to 99.99 $\mu$ s
- Sensitivity: 110 dB max in selectable resolution 0.1, 1.0, 2.0, 6.0 dB and locked.
- Test Modes: Pulse echo, dual element and thru-transmission
- Pulser: Tunable Square Wave Pulser
- Pulse Repetition Frequency ranges from 10 Hz to 1000 Hz
- Pulse Energy: 200V, 300V, 400V, 500V, 600V selectable
- Bandwidth (amplifier bandpass ): 0.5 to 15 MHz
- Gate Monitors: Two independent gates controllable over entire sweep range
- Rectification: Positive half wave, negative half wave, full wave, RF
- System Linearity: Horizontal: +/-0.2% FSW, Vertical: 0.25% FSH, Amplifier Accuracy +/-1 dB.
- Reject (suppression): 0 to 80% full screen height
- Units: Inch or millimeter
- Transducer Connections: BNC or LEMO
- Power Requirements: AC Mains 100-240 VAC, 50-60 Hz
- Operating Temperature: -10°C to 50°C
- Storage Temperature: -30°C to 50°C

## **Competitive Advantage:**

- With English display, master-slave menu, shortcut key and digital swiftly knob, it's designed with leading technology and can be used very conveniently.
- With digital color TFT LCD display, it can choose the background colour and wave color according to the environment. And the LCD brightness also can be set freely by yourself
- Designed with high performance security-guarantee battery module, it's easy for disassembly and assembly. And it can charge independent with offline. And the large capacity and high performance Lithium-ion battery module make the instrument' continuously working time to above 8 hours,

- With small size and light weight, the instrument can be hold by one hand. It's durable in use and lead industry trend.

**Standard Package:**

No.	Item	Quantity
1	Main Body	1
2	Straight Beam Probe 4P, 10mm	1
3	Angle Probe 4P8*9, 60°	1
4	Machine-probe Cable	1
5	Battery Module	1
6	Power Adapter (Charger)	1
7	Support Pillar	1
8	Manual	1
9	Instrument Case	1
10	Software with cable	1

