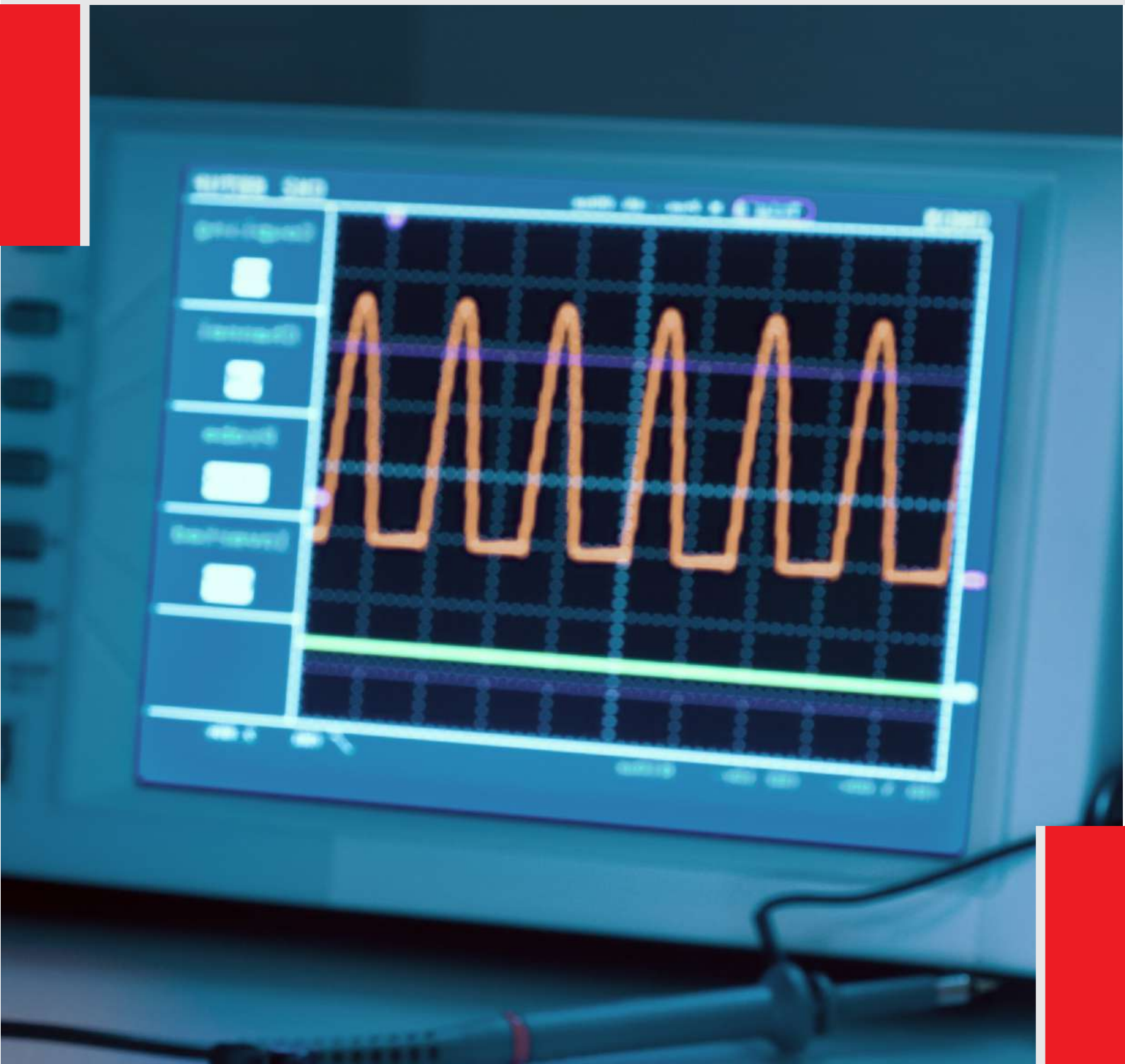


Ultrasonic Pulser Receiver System



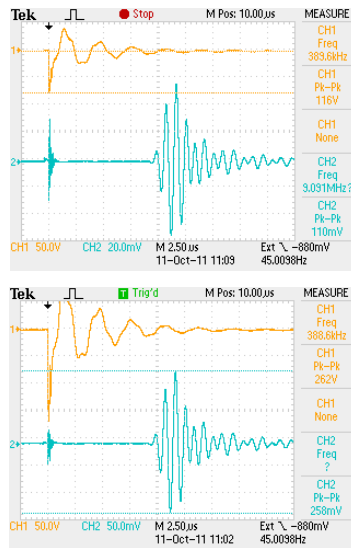
Non Destructive Evaluation

POWERHOUSE OF ULTRASONIC TECHNOLOGY[®]



Ultrasonic Pulsar Receiver System

The Microprocessor Based Ultrasonic Pulsar Receiver Model MHF-400 & MHE-900 are compatible with other Ultrasonic Instrumentation and allow great flexibility when configuring system for high frequency application or for attenuative materials. Front panel soft touch key pad allows operator to choose various parameters for precise setting. Large Alfa-numeric display allows operator to view all parameter. Gain adjustment and damping, required more frequently can be adjusted with separate knobs provided on front panel.



Various outputs like RF, SYNC, Window, Gate, Etc are available through BNC Connector. These equipment are compatible with PC & bi-directional data transfer is possible through RS 232 connector provided on rear panel. High Frequency Pulsar Receiver MHF-400 is suitable for application requiring high frequency probe, such as thin section examination, or very small defect detection. High Energy Pulsar Receiver MHE-900 is suitable for attenuative materials like concrete, stone, plastic, rubber, etc



Accessories For Ultrasonic Testing



- Transducers in various sizes, types & in frequency range 25 KHz – 25 MHz
- Transducers for high temperature application
- Search tubes & manipulators for immersion scanning
- Cables & Adaptors with various connectors
- 0° shear wave transducers
- Reference blocks conforming to various standards

Technical Specifications

	MHF 400	MHE 900
PULSER:		
Voltage	350 V	900 v max adjustable
Rise Time	< 10 ns	50 nS
PRF	10 KHz 5 KHz	10 KHz 5 KHz
SYNC Signal	+ 5.0 V TTL	+ 3 V TTL
Ext. Trigger	+ 5.0 V TTL	+ 5 V TTL
Excitation	ve spike 300ns	RF Burst, square wave selectable as single pulse/ multi pulse with cycle time/ on time or % width of PRF
Frequency	500 KHz - 35 MHz	20 KHz - 2 MHz
Receiver:		
Gain	103 dB in 1 dB step	103 dB in 1 dB step
Filter	HF - 0.5, 1.0, 2.5, 5.0 MHz LF - 2.5, 5.0, 10 MHz & open	HF - 0.02, 0.1, 0.4, 0.8 MHz LF - 0.05, 0.25, 1.0, 2.0 MHz
Bandwidth	500 KHz to 35 MHz	20 KHz to 2 MHz
RF Output	± VPP	± VPP
General:		
Power	230 V AC, 50 Hz, 1	230 V AC, 50 Hz, 1
PC Communication	RS 232, Bidirectional	RS 232, Birectional
Dimension	350 x 246 x 90 mm	350 x 246 x 90 mm
Weight	4.5 kg	4 kg
Operating Temperature	10 - 50° c	10 - 50° c
Test Mode	Single/Dual (pulse echo), Through Sweep (manual)	Single/Dual (pulse echo), Through Sweep (manual)
Gates	3 Independent gates	1
Measurements	Thickness, Velocity, Time	Thickness, Velocity, Time
Output	RF, Window, Gate	RF, Gate, Window
Display	LCD 4x20 Alfa numeric with backlight	LCD 4x20 Alfa numeric with backlight
Protection	Over Temperature	Over Temperature

Major Advantages

- It provides instantaneous results. Detailed images can be produced with automated systems
- It is nonhazardous to operators or nearby personnel and does not affect the material being tested
- It has other uses, such as thickness measurement, In addition to flaw detection
- It is sensitive to both surface and subsurface discontinuities
- The depth of penetration for flaw detection or measurement is superior to other NDT methods
- Only single-sided access in pulse-echo and transmit receive mode. It is highly accurate in determining reflector position and estimating size and shape

Ultrasonic Evaluation & Inspection

We have successfully been catering to the needs of various industries.



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Non Destructive Testing



Research

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