



# TIME TC700 Concrete Ultrasonic Tester



The TIME TC700 Non-Metal Ultrasonic Tester can detect internal defects, allowing you to measure crack depth, homogeneity, and thickness of the damaged layers. It can also measure concrete strength, pile integrity and thickness.

The TIME TC700 detects internal defects and crack depth, measures concrete homogeneity and damaged layer thickness, and performs concrete strength testing, pile integrity inspection, and thickness measurement.

## Features

- Dual-channel, real-time waveform display with a screen refresh rate of more than 30fps.
- Automatic interpretation of acoustic parameters (sound time, amplitude, frequency - all fully automatic)
- High receiving sensitivity & large penetration depth of up to 10 meters in concrete
- Compact and portable structure makes the unit ideal for onsite use
- Utilizes an AC and DC power supply, the DC power supply can work continuously up to 10 hours
- Data analysis and processing software complies with current specifications
- Extended functions: impact-echo concrete thickness tester, rock mass parameter determination, and concrete-filled steel tube test.

## Technical Specifications

Model	TIME TC700 Non-Metal Ultrasonic Tester
Mainframe	Dedicated Microcomputer System
Acoustic Time Reading Range	0-640kμs
Acoustic Time Readability	±0.05μs
Amplitude Reading Range	0-177dB
Gain Accuracy	3%
Amplifier bandwidth	5Hz – 1MHz
Transmission Voltage	250, 500, 1000V Multigear Adjustable
Sampling Period	0.05, 0.1, 0.2, 0.4, 0.8, 1.6, 3.2, 6.4μs Adjustable
Operation	Button & Photoelectric Knob
Trigger Mode	Signal Trigger, External Trigger
Receiver Sensitivity	≤10μV
Signal Acquisition mode	Continuous Signal, Transient Signal
Number of Channels	Dual Channel
Channel Isolation	No less than 42dB
Maximum Penetration Distance	10m
Display	640 x 480
Universal Interface	Parallel Port, USB Port
Power Supply Mode	1. Built-in Lithium battery supplies continuous power for 6 hours 2. AC:220V±10%; DC: 12V (AV & DC) 3. External large capacity battery, which can work continuously for 8-10 hours
Weight	1.8kg
Dimensions	250mm x 200mm x 100mm



## Packing List

TIME TC700

Planar Transducer

Single Cable

User Manual

Time Software & Warranty Card

Carrying Case