

# ***Ultrasonic Testing Equipment***



## ***Ultrasonic Quality Assessment Technology For Concrete***

**POWERHOUSE OF ULTRASONIC TECHNOLOGY<sup>®</sup>**





## Ultrasonic Concrete Tester (Ultrasonic Pulse Velocity Meter)



- Auto Digital Calibration
- High Range & Accurate
- Large Digital Display
- Battery Operated
- Android and IOS Connectivity
- PC Connectivity
- Data Memory



UCT is a fully portable instrument for assessing the strength of concrete either in situ or precast. It complies with the British Standard BS -4408 (Part V – 1974), BS-1181 and ASTM C-597. It is designed with field conditions in mind and is very simple to operate. Its accuracy and stability are unmatched. It generates low frequency pulses and measures the time of flight in the material. The time is displayed by 5 digit display.

The time of flight and hence the velocity is related to the mechanical strength of concrete. The majority of concrete testing requires transducers with frequency of 50 to 100 kHz. However higher frequencies are preferred for testing small specimens and achieving better timing accuracies. Wide range of transducers are offered with UCT. The high quality of transducers has been exploited to the fullest extent and the accuracy of the measurement is improved over the entire range to 100 nano seconds.

**Meets National And International Standards IS, BS-4408, BS-1881, ASTM C-597**

- Non destructive Quality Assessment of in situ or precast concrete
- Crack & Void detection
- Determination of Homogeneity of concrete
- Elastic property measurement of concrete

## Specifications

### 460X

Model No.	4600L	4605	4607	4612
Display	2.4" TFT Display	2.4" TFT Display	2.4" TFT Display	7" TFT Display
Zero Correction	Auto setting / Keypad	Auto setting / Keypad	Auto setting / Keypad	Auto setting / Touch
Battery Indication	On TFT display	On TFT display	On TFT display	On TFT display
Dimensions in (mm)	150 x 80 x 60	150 x 80 x 60	150 x 80 x 60	150 x 80 x 60
Weight (kg) including Batteries	0.5 Kg	0.5 Kg	0.5 Kg	0.5 Kg



## Specifications model 460X (4605/ 4600L)

### Technical Specifications

Test Mode	Through transmission mode
Range	10 $\mu$ sec to 9999.9 $\mu$ sec
Measurement units	Time
Resolution	$\pm$ 0.1 $\mu$ sec
Calibrated accuracy	$\pm$ 0.1 $\mu$ sec
Transducer	Contact Type
Operating Temperature	0° to 50° c
Power	7.2V DC
Display response time	Instantaneous
Testing range	Upto 4-5 meters with 50 kHz Above 5 meters with 25 kHz



### Additional Features

#### Features of Android App

- Semi direct method calculation
- Time velocity calculation
- Crack depth calculation
- Readings and users data can be saved into an excel sheet

### Accessories

#### Standard Accessories

- 1 set of 7.2 volt Li-Ion Cells
- Probe cables: 2 Nos. (4m each)
- Transducers: 2 Nos. (2" diameter, 60 kHz/ 1.2" diameter, 50 kHz)
- Calibration Block - 2 Nos

#### Optional Transducers

Available in 1" and 2" sizes & frequency range 25 to 250 kHz (UHF/BNC Connectors) Equipments & Probes available for Wood, Rocks and similar Materials.





## App & PC Software

*Introducing our latest app & Software for Ultrasonic Concrete Tester.  
Empowering users with precision, efficiency, and convenience, it revolutionizes concrete testing.*

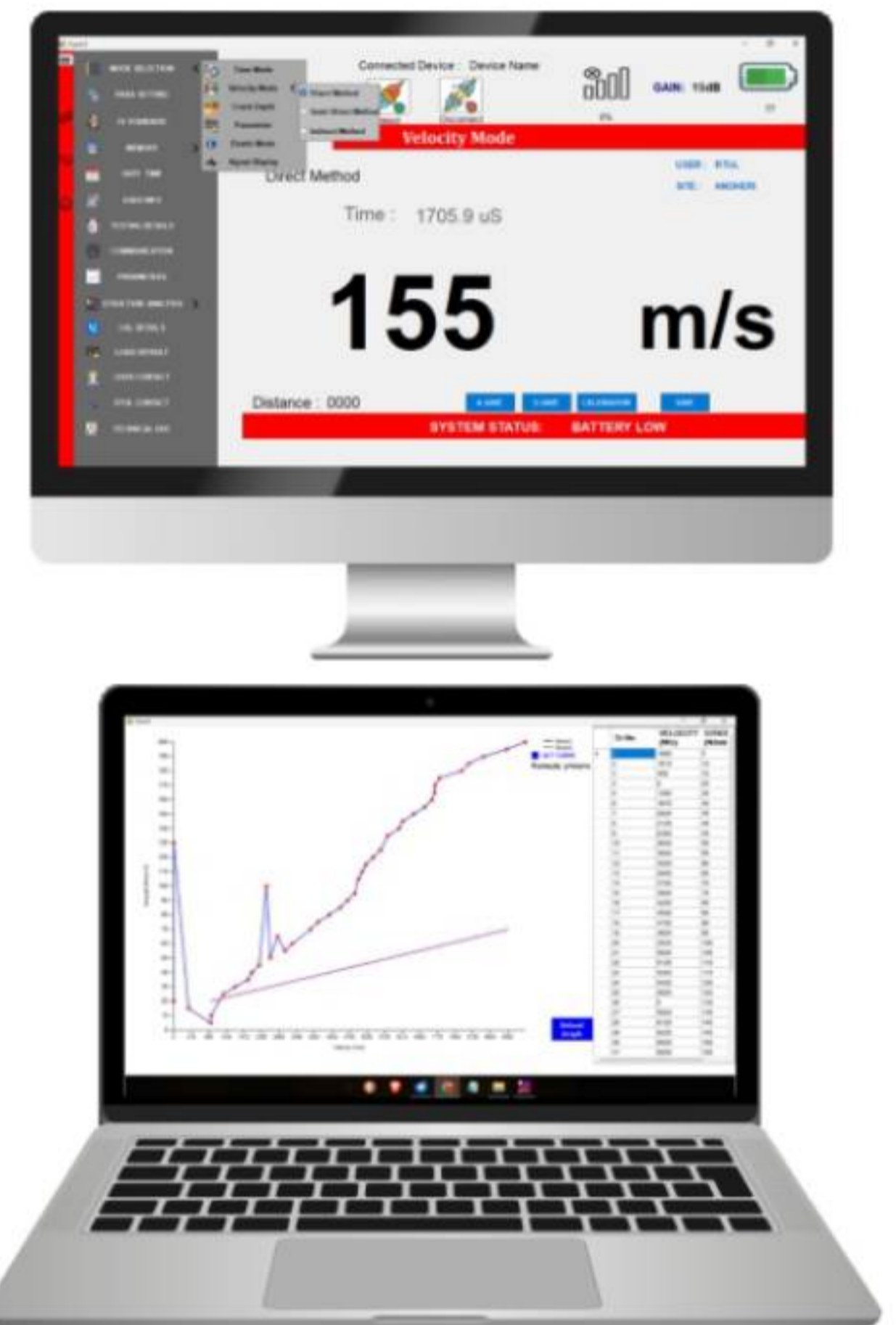


### Unique Features & Benefits of App

- User Friendly Interface
- Bluetooth Connectivity
- Bidirectional data transmission
- Different operating modes (time /velocity crack depth and Parameter mode)
- Well Structured & Detailed Reports Generation to PDF & Excel Files
- Data can easily be stored, analyzed & interpreted

### Unique Features & Benefits of Software

- User Friendly Interface
- PC to Device USB C Connectivity
- Bidirectional data transmission
- Well Structured & Detailed Reports Generation to PDF & Excel Files
- Data can easily be stored, analyzed & interpreted.



The Ultrasonic Pulse Velocity Metre is poised to transform concrete testing with its cutting-edge technology, providing unparalleled convenience, accuracy, and reliability.

Join the concrete testing revolution today with Roop Ultrasonix Ltd.

## ROOP ULTRASONIX LIMITED

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