



The Sciencetech 62, 5 digit and Sciencetech 63, 6 digit are high speed, high accuracy, Digital Bench Top Multimeters that meet the measurement needs of voltage-current and resistor accurate measurements. Their outstanding performances, such as fast reading rates (Max. 45 Readings/Second) and DC voltage measurement accuracy up to 0.005% provide a high standard in your work bench.

### Features

- 12 different measurement capabilities
- DCV/ACV, DCI/ACI, W2 W/W4 W, Frequency/ period Diode Test /continuity- dB/dBm etc.
- High brightness vacuum fluorescent dual display
- True-rms AC voltage and current measurement, Frequency bandwidth up to 100 KHz/300 KHz
- DCV measurement accuracy up to 0.01 % / 0.005, resolution; 1 mV/0.1JL/V
- Max. measurement rate: 45 results per second
- Equal accuracy frequency measurement greater than 1 MHz, Min resolution 10 mHz
- Zeroing (REL) mode
- 2 W, 4 W Resistance measurement
- Build in mX+b, %, dB, dBm etc. mathematics calculation function
- 512 reading storage and MAX/ MIN/ AVER/ STD statistics
- HI/ IN/ LO for speed sieving
- RS-232 interface for easy communication and optional GPIB
- Calibration without opening the case
- 10 sets of meter status can be stored and loaded





### Technical Specifications

Test Parameter	(DCV), (ACV), (DOI), (ACI), (ACI), ( $\Omega$ 2 W), ( $\Omega$ 4 W), (FREQ), (PERI), (CONT), (DIODE).
Mathematics Calculation Function	mX + b, % dB, dBm, REL
Range	Auto, Manual
Display	VFD
Trigger	Mode
	INT/ MAN/ EXT
	Programmable Time Delay
	0 -6000 mS
Reading Storage and Statistics	2 to 1024 sets of reading can be stored, loaded and counted Type of statistics : MAX. MIN. AVER. STD
Reading Hold	To give best stable reading for each of the Test Parameter according to the given accuracy
Limitation Measurement	To judge III. IN, LO and display with ALARM for 1 HI/LO
Storage setting	10 setting files can be stored loaded
Calibration	Recommended Fluke 5520A with NB 62 Accurate calibration software (option)
Communication Interface	GPIB (option), RS 232C. SCPI command programmable

#### Specifications

Accuracy :  $\pm$  (reading % + full scale reading %)

#### Full Scale Reading and reading Rate (Reading /Second)

Reading Rate	Reading Rate			
	Slow	Medium	Fast	
	<b>Scientech 62</b>	<b>Scientech 63</b>		
Full scale Reading	119,999	1,99,999	119,999	11,999
Reading rate (reading /Sec.)	DCV, DCI	3.7	2.3	24
	ACV, ACI	2.3	1.5	4.5
	$\Omega$ - 2 W	3.7	2.3	21

#### (DCV)

	Range	Min. Resolution	Max. Accuracy (One year)
Scientech 62	100 mV-1000 V	1 $\mu$ V	0.010% + 0.0035%
Scientech 63	100 mV-1000 V	0.1 $\mu$ V	0.005% + 0.0010%

#### (DCI)

	Range	Resolution	Max. Accuracy (One year)
Scientech 62	10mA-10A	100 nA	0.050% + 0.010%
Scientech 63	10mA-10A	10 $\mu$ A	0.005% + 0.005%

#### (1KHz) (ACV)

	Bandwidth	Range	Min. Resolution	Max. Accuracy (One year)
Scientech 62	10 Hz-100 KHz	100 mV-750 V	1 $\mu$ V	0.10% + 0.10%
Scientech 63	5 Hz-300 KHz	100 mV-750 V	0.1 $\mu$ V	0.06% + 0.05%

#### (ACI)

	Bandwidth	Range	Min. Resolution	Max. Accuracy (One year)
Scientech 62	10 Hz-10 KHz	10 mV-750 V	100 nA	0.25% + 0.0.8%
Scientech 63	5 Hz-300 KHz	100 mV-750 V	0.1 $\mu$ V	0.15% + 0.06%

#### ( $\Omega$ 2 W $\Omega$ 4 W)

	Range	Measurement Current	Min. Resolution	Max. Accuracy Resolution(One year)
Scientech 62	100 $\Omega$ -1000 M $\Omega$	0.7 $\mu$ A-1mA	1 m $\Omega$	0.030% + 0.005%
Scientech 63	100 $\Omega$ -1000 M $\Omega$	0.7 $\mu$ A-1mA	100 $\mu$ $\Omega$	0.015% + 0.002%

#### (Frequency)

	Range	Voltage Sensitivity	Min. Resolution	Max. Accuracy (One year)
Scientech 62	5 Hz 1.1 MHz	40 mV <sub>rms</sub>	10 $\mu$ Hz	0.005% + 0.002%