

MultiScope: 22-320

World-sole handheld test & measuring equipment realized on a modular design

Multiscope

with 20MSa/s Dual Channel Storage Oscilloscope Module

Switch your MultiScope in different oscilloscopes, a Logic Analyzer, Frequency Counter, Frequency Generator, Dual Channel Multi Meter, LAN-Test Adapter and many more useful Test & Measuring Equipment.

Connects to your PC and remote controlled via Internet

Stand-alone oscilloscope features:

- Independently floated isolation between both channels
- Various triggering options
- Cursor Measuring Functions
- Auto-Setting Mode
- Selectable Memory Depth
- Serial PC interface optical isolated
- Highest security standards certified by UL, USA
- High price/performance ratio



Options:

- PC Software V2.0 includes Serial Cable
- Signal Probes 1:1/10:1 20MHz
- AC Adapter
- Rubber Protection Boot
- Hard-shell anti-static carry case

(included in Cat.No. 22-321)

MultiScope Master Unit 22-320

LCD	128 x 64 dots, LED green, monochrome
Serial Interface	RS232, opto-isolated, 56KBaud, 8 data
Serial Cable	6 ft (with PC Software included)
Keyboard	25 function silicone keys
Batteries	6 x 1.5V "AA"-size (not included)
Battery Life	8 to 16 hours typical for alkalines (pending on module, usage and LCD back light switched off)
AC Adapter	optional
Master Unit	200 x 90 x 55 mm
Weight	320 g
Carrying Case	space for master, 4 modules, accessories/Cables and AC Adapter, optional
Weight	835 g

Operation Environment	Full accuracy from 0 to 40°C and 80% RH (non-condensing) at 30°C
Storage Environment	0° to 40°C
Certifications	CE, IEC1010, UL #90MA
Rubber protection boot	optional

Dual Channel 20MS/s Oscilloscope Module 22-321

Channel	2, Independently floated isolated
Timebase Channel 1	50ns (20MS/s) to 200ms/div
Timebase Channel 2	50ns (20MS/s) to 200ms/div
Second timebase on channel 2 to magnify recorded signal on Channel 1	
Analog Bandwidth	DC – 2MHz
Coupling	AC/DC Channel 1 and 2
Input Impedance	Probe set to 1:1, 1MOhm/60pF Probe set to 1:10, 10MOhm/30pF
Sensitivity	2mV to 40V/div (100mV to 5V/div in [1,2,5] steps)
Max. Input Voltage	Without Probe max. 40Vpp With Probe max. 400Vpp
Resolution	8 Bit
Vertical Accuracy	±2%
Max. vertical Move	±4 divisions
Scope Modes	Normal and Single Shot
<u>True sampling rates</u>	
Normal	0.5 µs/div (20MS/s) to 200ms/div
Single shot	0.5 µs/div (20MS/s) to 200ms/div
Time Base Accuracy	>±0.5%
Horizontal Move	25 divisions
Trigger	Free Run or On Trigger
Trigger Source	Channel 1 negative or positive transition
Trigger Level	6 bit resolution
Trigger Delay	16 steps
Memory Depth	128, 256, 512 or 8KB samples/channel, selectable
Auto Setting	for Timebase Ch1/2,

Input Voltage Ch 1/2

Firmware	vertical/horizontal cursors all parameter selectable by Master Unit or via PC attached, Numerical Measurement, trigger/zero level, cursors, select Keyboard click, cursors, grid, LCD back light, store recorded data.
PC Software	on 3.5" disk, running under Windows95/98/NT Internet remote-control function via Internet, Printing recorded data, Serial Data Protocol published, optional
Signal Probes	1:1/10:1 selectable, 4ft, max. 600V optional
Dimensions Module	70 x 70 x 27 mm
Weight	110 g
Operating Environment	Full accuracy from 0 to 40°C and 80% RH (non-condensing) at 30°C
Storage Environment	0 to 40°C
Certifications	CE, IEC1010, UL #90MA

Made in Germany