



velleman®
INSTRUMENTS

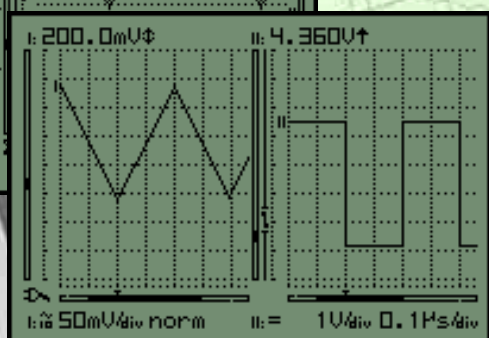
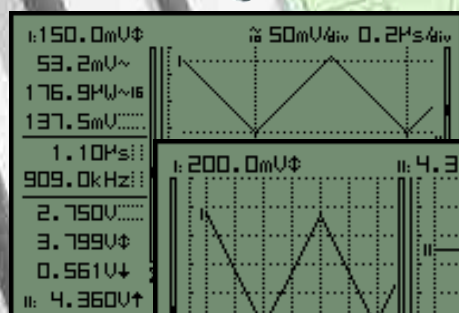
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APS230

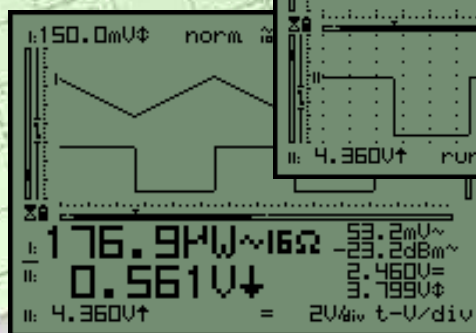
Advanced Personal Scope



2x 240MS/s



StereoScope mode



Features

- ☑ Two input channels
- ☑ High contrast LCD with **backlight**
- ☑ Full auto set up for vol t/div and time/div
- ☑ Recorder **roll mode**, up to 25h per screen
- ☑ Trigger mode: run - normal - once - roll..
- ☑ Adjustable trigger level and slope
- ☑ Peak measurements: Max, min. and pk to pk
- ☑ Measurements: rms, dB(rel), dBV and dBm
- ☑ **Direct Audio** power measurements
- ☑ x1 and x10 probe calculation option
- ☑ Several display modes
- ☑ **StereoScope** mode for audio measurement
- ☑ X and Y position shift
- ☑ Memories with compare function
- ☑ Battery pack included, with fast charge

General specifications

- 2 Channels
- input impedance : 1 Mohm / 30pF
- Bandwidth 2 x **30MHz**
- Sampling **240MS/s per channel**
- step markers for voltage, time...
- vertical resolution: 8 bit
- Sensitivity down to **20µV**
- Volts per division down to **1mV**
- Time base from 10ns to 1 hr/div
- AC/DC input coupling selection
- Full Auto Setup function
- RS232 communication with Pc
- dimensions: 230x150x50mm
- weight: 870g incl. battery

APS230

Advanced Personal Scope

SPECIFICATIONS:

Maximum sample rate	2x 240MS/s for repetitive signals (2x 60MS/s for single shot events)
Maximum input amplifier bandwidth	30MHz (-3dB) per channel
Input impedance	1Mohm // 20pF (standard oscilloscope probe)
Maximum input voltage	100Vpeak (AC + DC), 200Vpeak-peak (AC only)
Input coupling	DC, AC and GND (GND for auto zero reference)
Vertical resolution	8 bit \pm 1bit linearity
Trigger modes	Run, Normal, Once, Roll mode for 10s/div and slower timebase
Trigger level	Adjustable with positive or negative slope selection
LCD Graphics	128 x 192 pixels with LED backlight
Signal storage	256 samples per channel, 2047 in roll mode
dBm measurement (0dBm= 0.775V)	From -80dB tot +40dB (up to 60dB with X10 probe) \pm 0.5dB accuracy
dBV measurements (0dBV= 1V)	From -78dB tot +38dB (up to 58dB with X10 probe) \pm 0.5dB accuracy
True-rms measurement	From 0.03mV to 80V (up to 400Vrms with X10 probe) 2.5% accuracy
Peak to peak AC sensitivity (sinewave ref.)	32μV to 160V (1mV to 1000V with x10 probe) 2% accuracy
Timebase range in 36 steps	10ns to 1hour/division
Input sensitivity range in 14 steps	1mV to 20V/division at X1 - 10mV to 200V/div at X10
Probe calibration output	1,2KHz / 3Vpp
Supply voltage	9VDC/ min 500mA regulated adapter
Batteries	6V / 1800mA battery pack NiMH rechargeable
Charge current for rechargeable batteries	400mA fast charge
Battery current (average)	On: 350mA, with backlight: 400mA, standby current: < 100 μ A
Operating temperature	0 to 50°C (32 to 122°F)
Fysical characteristics	Dim: 230x150x50mm (9x5.9x1.97") Weight: 870g incl. Batteries
Interface to PC	Internal optical isolated RS232, 57600bd for screen and data load/set
Firmware	Upgradable through internet
Protection	IEC1010, 600V CATII, pollution degree 1 (IP40)

Package includes:

- ☒ APS230 unit
- ☒ RS232 cable (9 pole sub D)
- ☒ 2 Insulated 60MHz X10 measuring probes
- ☒ User manual
- ☒ Adaptor
- ☒ Battery pack

Options:

- Extra battery pack: BPAPS230
- Soft bag: GIB

