



The PCS500 and the PCS100 are digital storage oscilloscopes that uses a computer and its oscilloscopes that uses a computer and its monitor to display waveforms. All standard oscilloscope functions are available in the supplied Windows programme. It works just like a normal oscilloscope with the difference that all operations can be performed with the mouse. Use the computer's parallel port for connection. The scope is completely optically isolated from the computer port. Any waveform displayed on the screen can be stored for later use in decuments or for the comparison of waveforms. documents or for the comparison of waveforms.

Two separately digitised 50MHz channels with a sample rate up to 1GHz each. PCS100 :

One channel (12MHz) with a sample rate up to 32MHz.

- ✓ Auto Setup function
- √ Input impedance : 1Mohm // 30pF

- Record and display of screens & data

 Max. input voltage: 100V (AC + DC)

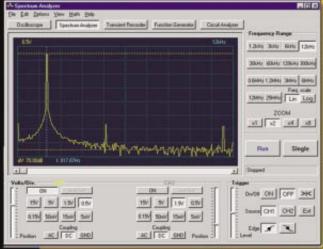
 Input coupling: DC, AC and GND

 Supply voltage PCS500: 9Vdc/1000mA

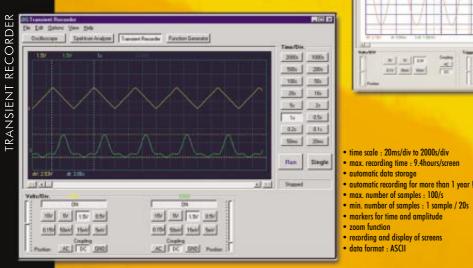
 Supply voltage PCS100: 9Vdc/500mA

 Dimensions: 230 x 165 x 45mm
- √ Weight PCS500 : 490g
- Weight PCS100: 400g
- ✓ Optional : bag (GIB) : PROBE60S insulated scope probe

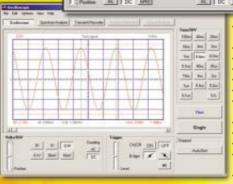
PCS500A / PCS100A: adapter incl. PCS500 / PCS100 : adapter not incl



- frequency range PCS500 : till 25MHz / frequency range PCS100 : till 16MHz
- linear or logarithmic frequency scale
 operating principle : FFT (Fast Fourier Transform)
- FFT resolution : 2048 points
- markers for amplitude and frequency



100m 50m 20m 10m 5m 2m 1m 65m 0.2mm 0.1mm 50mm 20mm The So 2e Se 65s 62s 03s 5A ON OFF SK 18/ SV 1.9/ 8:5V 197 97 1.57 6:97 HE SHO THO 015V 50vV 15vV 5vV 0.194 SDAV 1544 SAV 1 to 12



- timebase PCS500 : 20ns to 100ms per division timebase PCS100: 100ns to 100ms per division
- trigger source PCS500 : CH1, CH2, EXT or free run
- trigger edge : rising or falling
 trigger level : adjustable in steps of 1/2 division
- step interpolation : linear or smoothed
- markers for : voltage, frequency and time
- input sensitivity PCS500 : 5mV to 15V/ division input sensitivity PCS100 : 10mV to 3V/ division
 pre-trigger function (PCS500 only)
- true RMS read-out (only AC component)
 recording length : 4096 samples / channel
- sampling frequency PCS500 : real-time 50MHz
- sampling frequency PCS100 : real-time 32MHz
- sampling frequency PCS500 repetitive: 1 GHz (Equivalent Sampling Rate)

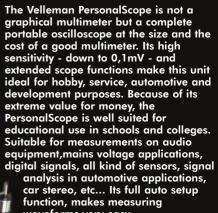


HPS10 PERSONAL SCOPE









waveforms very easy.



analog bandwid

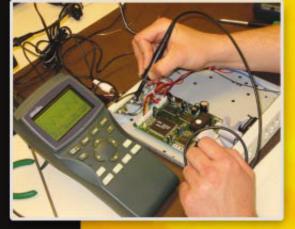


X and Y position signal shift DVM readout with x10 option Audio power calculation (rms and peak) dBm, dBV, DC, rms ...measurements
Signal markers for Volt and Time Frequency readout (through markers) Recorder function (roll mode) Signal storage (2 memories)

LCD 128x64 pixels High contrast LCD Up to 20h on alkaline batteries Supply: 5 x AA Alkaline, Nicd or NiMH batteries (not incl.)

Includes battery charging circuit

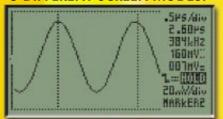
HPS10 user manual insulated safety probe



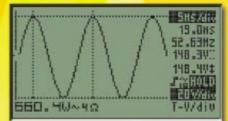




5 DIFFERENT SCREEN MODES:

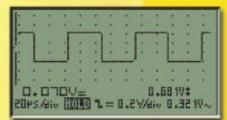


normal screen

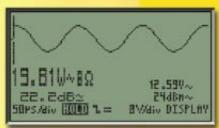


normal screen with large dvm





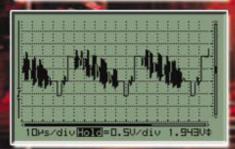
wide screen with dvm

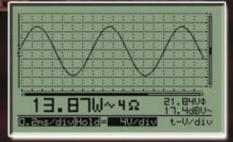


wide screen with large dvm

HPS40

500ns/div 0.754sl 1.33MHzi 22.05V 07.71V 10.40Vf 17.8d8V Probe x1 40/div t-W/div





See the residual times higher priced competition

noise on 5 to 10

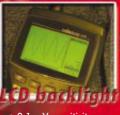
HPS40 impressive low noise, even on highest sensitivity

Screens and data can be transferred to a computer, through an optical isolated RS232 port. Even instant screen shots can be taken, while measuring! Two memories, signal markers, X+Y position shift and adjustable trigger level, make this scope complete. A roll/recorder function is also provided to make long time recordings, like power monitoring or battery charge/discharge curves.

PERSONAL SCOPE

Our goal with the HPS40 was to develop a user-friendly, feature-packed and genuinely "hand-held" oscilloscope. A number of characteristics were on our wish list: low noise, high sensitivity, modest weight, a backlit LCD and a choice between regular batteries or rechargeable ones. Furthermore, the scope also offers a selection of 5 different screen layouts. Both novices and professional users will admire the fast

and fully automatic setup function, allowing them to perform measurements without physically touching the unit! Floating measurements are completely safe thanks to the battery-powered operation and the (included) fully insulated measuring probe. These features make the HSP40 indianaged to the applications. indispensable to the professional user, service centres and even to the hobbyist.



optically isolated RS232 output for PC

- 0,1 mV sensitivity
- 5mV to 20V/div in 12 steps
- 50ns to 1hour/div time base in 34 steps
- Full auto set up Adjustable trigger level
- X and Y position signal shift
- +27 DVM readout
- Audio power calculation (rms and peak) in 2, 4, 8, 16 & 32 ohm
 • dBm, dBV, DC, rms ...measurements
- Signal markers for Volt and Time
- Frequency readout (through markers)
- Recorder function (roll mode)
- Signal storage (2 memories)
 High resolution LCD 192x112 pixels
- Data or bitmap download to PC



CONTAINS

- ✓ HPS40 unit
- √ Users manual
- Flexible carry protection holster
- Insulated, safety probe
- RS232 connection lead (to DB9)
- Handy hard protection carry case
 OPTION
- mains adaptor PS905 PS905USA for USA



SOFTWARE free download from our website





Select your most suitable	HANDHELD SCOPES		PC SCOPES	
most suitable VELLEMAN scope			1111	
vellemen*///	HDG 10		PCS100*	
INSTRUMENTS		HPS40	LP9 100.	Legann.
Number of channels	1	1	1	2
Maximum sample rate	10MS/s	40MS/s	32MS/s	2 x 1GS/s
Maximum bandwidth	up to 2MHz	up to 12MHz	12MHz all ranges	50MHz all ranges
Real time sample rate (single shot event)	1MS/s	5MS/s	32MS/s	2 x 50MS/s
Number of screen layout modes	5 128x64	5 192x112	apr. 520x295	F20-205
LCD screen / PC signal screen size (pixels) LCD backlight	120004	192X112 ☑	dpr. 520x295	apr. 520x295
Memory length (bytes)	256	256	4096	2 x 4096
Sensitivity Vpp	0.1mV	0.1mV	0.3mV	0.1mV
Volt /div range and number of steps	5mV to 20V / 12steps	5mV to 20V / 12steps	10mV to 3V / 6 steps	5mV to 15V / 8 steps
Maximum visible voltage with X 10 probe	600VDC incl ACp	600VDC incl ACp	120VDC incl ACp	600VDC incl Acp
Fastest time / div	0.2μs	0.05µs	0.1 <i>µ</i> s	0.02µs
Slowest time / div in recorder or roll mode	3600s	3600s	2000s	2000s
Data or screen capture to computer		☑ RS232	Ø	Ø
PC software	/	Download only	PC-Lab2000 CD	PC-Lab2000 CD
Operation through computer (LPT port)			Optical isolated	Optical isolated
Screen memories	2 ☑	2 ☑	PC harddisk	PC harddisk
Stand alone operation (portable) Standard oscilloscope probe compatible	∀	∀	☑	Ø
Recorder mode	<u> </u>	<u> </u>	N N	I
Spectrum analyser mode			<u> </u>	Ø
Bode plot option if used with PCG10 generator	/	/	<u> </u>	<u> </u>
X position and Y position shift	<u> </u>	☑	Ø	Ø
X 10 probe calculation option	Ø	Ø		
Adjustable trigger level		Ø	Ø	Ø
External trigger input				Ø
Pre trigger function				Ø
Zoom function for time/div			☑	☑
Screen memory compare / recall	<u> </u>	<u> </u>	₫	Ø
DVM with X10 probe option	Ø	∀		
Auto set-up FULL Auto set-up SEMI	☑		<u> </u>	✓
Auto set-up SEMI Dynamic screen (auto fit) for markers	☑	1	V	V.
Signal markers (dt / dV / 1/dt)	☑	<u> </u>	Ø	Ø
Audio power calculation	∀	<u> </u>		
dBm measurement	<u> </u>	<u> </u>	Ø	Ø
dBV measurement	Ø	Ø		
AC only true rms measurement	Ø	Ø	Ø	Ø
AC + DC true rms measurement	☑	Ø		
DC measurement with zero reference set-up	Ø			
Mathematical functions CH1+Ch2, Invert,,,	-	_		Ø
Auto power off option	 ✓	<u> </u>	/	/ / / / / / / / / / / / / / / / / / /
Demo mode	<u></u>	<u>▼</u>	☑ (software)	(software)
Battery / rechargeable battery operation Low battery indication	<u>A</u>	<u>▼</u>		,
Battery charge circuit	<u> </u>	<u>√</u>	/	/
Holster included (BAGHPS)		<u> </u>	/	/
Case (GIB)				7
Oscilloscope probe included (PROBE60S)	\square	<u> </u>		
Test lead included	/		<u> </u>	V
Blow moulded carrying case (CASEHPS)		Ø	/	/
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