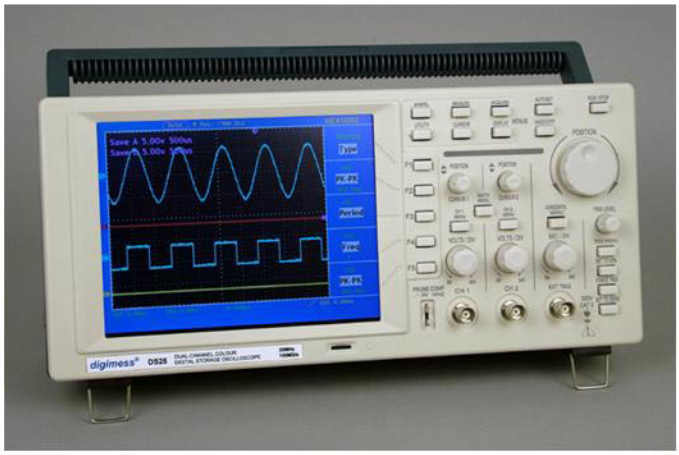
DS25 Colour 25MHz digital oscilloscope

***digimess*®** concept

CE



The ***digimess*®** DS25 is a general purpose 25MHz bandwidth, 2 channel 100MS/s, colour digital storage oscilloscope. This compact and light weight unit (optional battery pack) features a large 7.8 inch colour STN LCD display with 640 x 480 resolution and 256 colours. The specification includes a sampling rate from 10S/s to 100MS/s (12.8GS/s max equivalent), 8 bit vertical resolution, Auto-setup and Auto-calibration. Up to 4 waveforms can be stored and a USB interface is fitted as standard. The oscilloscope is supplied with two X1/X10 probes, USB lead, PC software, mains lead and manual.

Specification

DISPLAY		**TRIGGER**	
Screen	7.8 inch Colour STN LCD	**Trigger source**	CH1, CH2, EXT, EXT/5,
Resolution	640 x 480, 256 colours	**Trigger mode**	Auto, Norm, Single, Edge, TV
Type	Dots or vectors	**Trigger coupling**	AC, DC, HF Rej, LF Rej
Persistence	Off, 1s, 2s, 5s, infinite	**Trigger sensitivity (Edge triggering)**	DC coupling : CH1 & CH2: 1div, EXT: 0.1V, EXT/5: 0.5V AC coupling 1 div for >50Hz
Waveform interpolation	Sin (x)/x		
Format	YT and XY	**Trigger level range**	INT: ± 6 divs from screen ctr, EXT: ± 600mV, EXT/5: ± 3V
Zoom	Expands window to full size between 2 cursors	**Trigger level accuracy (for signals with rise/fall times ≥ 20ns)**	INT: ± 0.3divs, EXT: ± (40mV + 6% of set value) EXT/5: ± (200mV + 6% of set value)
INPUT		**Trigger displacement**	655 divs for pre-trig and 4 divs for post-trig
Coupling	DC, AC	**Trigger sensitivity (video & typical mode)**	INT: 2 divs of pk-pk value, EXT: 400mV, EXT/5: 2V
Impedance	1MΩ ± 2%, 20pF ± 3pF	**Video triggering**	Supports PAL, NTSC and SECAM for any field or line
Max input voltage	300V (peak) CAT II		
Channel delay time (typical)	150ps	**X/Y MODE**	
Probe attenuation coefficient	X1, X10, X100, X1000	**X axis Y axis**	CH1/CH2
DATA ACQUISTION		**PROBE COMP SIGNAL**	
Real time sampling rate	100MS/s max per channel	**Output voltage**	5V
Equivalent sample rate	12.8GS/s max per channel	**Frequency**	1kHz square wave
Sampling modes	Sample, Peak Detection, Average	**MEASUREMENT**	
Average	4, 16, 64, 128	**Cursor**	Voltage difference (ΔV) and time difference (ΔT)
HORIZONTAL		**Auto**	Pk-pk value, average value, rms value, freq and period
Sampling range	10S/s - 100MS/s	**WAVEFORM MATHS**	
Record length	6k points per channel	**Function**	CH1-CH2, CH2-CH1, CH1+CH2
Time base range	5ns/div - 5s/div, 1-2-5 steps	**GENERAL**	
Sample rate /delay time accy	± 100ppm for any time interval	**Power supply**	100-240Vac rms 50/60Hz
Time interval (T) measurement accuracy full bandwidth	≥ 1ms Single: ± (1 sample time int + 100ppm x reading + 0.6ns) >average 16 : ± (1 samp int + 100ppm x reading + 0.4ns)	**Battery (optional)**	7.4V lithium rechargeable
		Power consumption	< 15W
		Working temperature	5 - 40C
VERTICAL		**Relative humidity**	20 - 80%
A/D converter	8 bit resolution, 2 channel	**Weight**	1kg
Sensitivity	5mV/div - 5V/div	**Dimensions (W x H x D)**	350 x 157 x 120mm
Displacement range	± 10div (5mV/div - 5V/div)	**ORDER INFORMATION**	
Analogue bandwidth	25MHz	**HUC75-00 DS25**	25MHz colour scope
Single bandwidth	Full bandwidth	**HUC75-10 DS25-BATT**	25MHz colour scope with battery option fitted
Low frequency response	≥ 5Hz AC coupling -3dB		
Rise time	≤ 17.5ns		
DC gain accuracy	± 5%		
DC measuring accuracy average sampling mode	± 5% reading + 0.05 divs after averaging more than 16 times		