The Dataman 526 is a dual channel oscilloscope with 150 MHz bandwidth and USB 2.0 connectivity. The 526 advanced PC based oscilloscope is built to meet the demands of development labs and field engineers.

Dataman 526 is a small, fast and powerful oscilloscope offering real time sampling rates of up to 200 megasamples per second and equivalent sampling rates of up to 20 gigasamples per second. Comprehensive software combined with high sampling rates and large onboard sample buffer give the 526 features normally found on more expensive equipment.

**Hardware**

**General**
- USB 2.0/1.1 compatible interface
- Dual channel with external trigger
- 150 MHz bandwidth
- Deflection factor: 10 mV/div to 5 V/div in 1-2-5 sequence
- Maximum real time sampling rate: 200 MS/s
- Maximum equivalent sampling rate: 20 GS/s
- Internal sample buffer: 8,000 per channel
- Powered from USB (no batteries or additional power supply required)

**Vertical Deflection System**
- No. of horizontal divisions: 8
- No. of samples per division: 32
- Deflection factor range: 10 mV/div to 5 V/div in 1-2-5 sequence
- Accuracy: ±2% of current value + 1 pixel
- Resolution: 8 bits (0.39%)
- Frequency response (-3dB): DC: 0-150MHz, AC: 1.2Hz-150MHz
- Step response rise time: max. 2.4 ns

**Features**
- USB powered - no additional power supply is required
- Dual channel with external trigger
- 150 MHz bandwidth
- 200 MS/s real time sampling rate
- 20 GS/s equivalent sampling rate
- 8,000 sample buffer per channel
- Hi-speed USB 2.0 connectivity allowing fast and easy connection to PC’s and laptops
- Comprehensive 2 years parts and labour warranty
- Free life-time software updates

Dataman 526 www.dataman.com
**Output voltage (no load):** 3.3V ± 5%

**Frequency:** 1465Hz

**Output waveform:** Pulse with 1:1 duty cycle

**Output impedance:** 1kΩ to parallel with 10nF and approx. 50Ω serial

**Output connector:** BNC, together with External trigger input

**Display range with respect to trigger event:** 8190 samples before and 63000 samples after trigger event in length of 8192 samples

**Mode of operation:** Sampling before and after trigger with continual selection of the trigger position

**Time base range in 1:1 mode:** 2 ns/d to 100 ms/d in 1-2-5 sequence

**Time base accuracy:** 0.01 % to 100ns/d, 0.5 % for 50ns/d to 5 ns/d

**Real time sampling frequency:** 1kHz to 200MHz

**Equivalent sampling frequency:** 1kHz to 20GHz

**Record length:** 8192 samples per channel

**Time base range using different ZOOM modes:** 200 ps/d to 1.6 s/d

**Threshold setting:** Channel A and Channel B on the whole display range. External fixed on about 1.5V

**Slope selection:** Leading or trailing edge independently on each source

**Minimum trigger pulse period:** 5 ns

**Maximum voltage on external trigger input:** -10V to +13V at 20kHz or less

**Minimum trigger pulse length:** 2.5 ns

**Minimum trigger pulse period:** 5 ns

**Power consumption:** max. 2.25W active

**Operating voltage:** USB1.1: 350mA / USB2.0: 450mA

**Weight:** 0.5Kg (1.1lbs)

**Dimensions:** 182 x 111 x 39mm (7.1 x 4.3 x 1.5inches)

**Weight:** 0.5Kg (1.1lbs)

**Maximum source:** 150MHz

**Zero setting accuracy:** ± 2% of the screen

**Horizontal divisions:** 10

**Adjustments:** Digital filter with ability of setting the valid pulse length up to 131072*Ts for each level and counter of valid triggering events settable from 1 to 32768 for each level. HOLD-OFF settable up to 131072*Ts with selectable AUTO mode, to sample proper amount of data before trigger. (Ts – actual real time sampling period)

**Software**

**User Interface**
The included software allows complete control of the device from a PC and contains standard features expected in modern digital storage oscilloscopes (DSO) such as hold acquisition process, hold-off, zoom. In addition the software offers saving/loading of waveforms for future use, export to clipboard, printing of results and scope settings.

**Package Includes**

**Dataman 526 150MHz Oscilloscope**

- Dimensions: 182 x 111 x 39mm (7.1 x 4.3 x 1.5inches)
- Weight: 0.5Kg (1.1lbs)
- Operating voltage: USB1.1: 350mA / USB2.0: 450mA
- Power consumption: max. 2.25W active

**Software**

- Data logging software
- User manual
- Optional Accessories
- Probes
- Development kits

**Warranty and Support**

- 30 day money back guarantee* - If you don’t like it, send it back
- Two year guarantee - Two years parts and labour warranty, on the 526 150MHz oscilloscope
- Life-Time Technical Support - 526 technical support is available free via our website and telephone helpdesk for life
- Life-Time Software Updates - 526 software updates are available free via our website for life

*Applies to orders from UK/US offices only