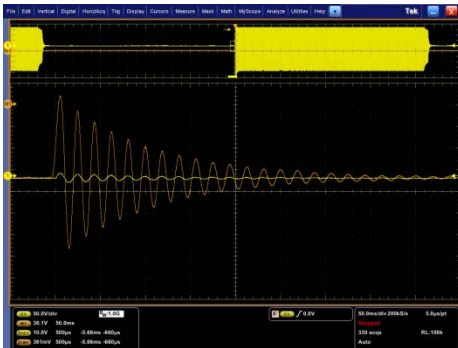


DPO7000C Series vs. Agilent DSO 9000H Series

Competitive Fact Sheet

High Vertical Resolution

Tektronix DPO7000C Series



- ✓ Vertical range is 100 V/div with standard probes, and 10 vertical divisions.
- ✗ Default vertical resolution is 8 bits.
- ✓ HiRes acquisition mode can be used to increase vertical resolution.
- ✓ Standard math filter functions can be used to improve signal-to-noise.
- ✓ Vertical zoom can be used to vertically scale the math waveform.

Agilent DSO 9000H Series

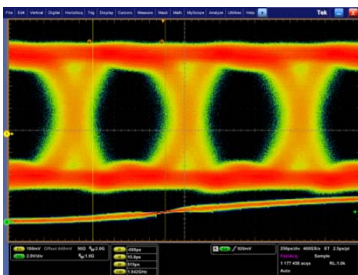


- ✗ Vertical range limited to 50V/div with standard probes, and only 8 divisions.
- ✓ Default vertical resolution is 10 bits.
- ✓ "Bits of Resolution" acquisition selections enable higher vertical resolution.
- ✓ Acquisition averaging and math filtering can be used to improve signal-to-noise.
- ✓ No vertical zoom, but math can be used to scale the waveform.

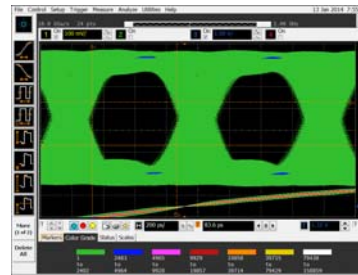
Screen shots above show similar high resolution acquisition of >600V signal with detail of 2-3V ringing pulse, using vertical zoom and filtering on both scopes.

Eye Diagram Display

Tektronix DPO7000C Series



Agilent 9000H Series



1.25 Gb/s eye diagrams, SMA-to-BNC cable connection to scope.

- ✓ Full bandwidth performance on 4 channels on all models.
- ✓ RT, ET, IT acquisition modes available.
- ✓ Color- and intensity-graded displays
- ✗ Limited bandwidth performance on more than 2 channels on top BW models.
- ✗ No ET mode in high resolution modes.
- ✗ Limited color-graded displays, as shown in eye diagram above.

Key Specifications Comparison

	Tektronix DPO7000C Series		Agilent DSO 9000H Series	
Channels	✗	4	✓	4 (+16 digital with MSO opt.)
Bandwidth	✓	500 MHz, 1 GHz, 2.5 GHz, 3.5 GHz	✗	250 MHz, 500 MHz, 1 GHz, 2 GHz
Waveform Capture Rate (max)	✓	>250k wfms/s, with color- / intensity-graded displays	✗	3k wfms/s, with limited color- and intensity-graded displays
Max. Sample Rate (All channels on)	✓	10 GS/s	✗	1.25 - 5 GS/s, depending upon acquisition mode and input terminations
Max. Record Length (All channels on)	✓	25 Mpts (standard) 125 Mpts (optional)	✓	50 Mpts (standard) 128 Mpts (opt., repetitive)
DC Gain Accuracy	✓	±1.0%	✗	±2%
Vertical Resolution	✗	8 bits	✓	10 bits (default)

DPO7000C Series vs. Agilent DSO 9000H Series

Competitive Fact Sheet

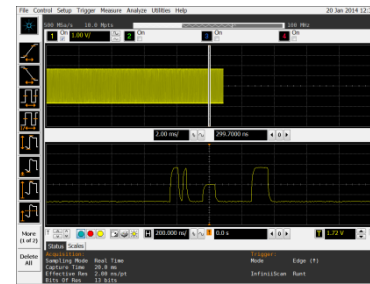
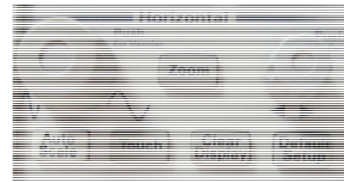
Automated Search

Tektronix DPO7000C Series



- ✓ Two multipurpose controls for easy zooming and scrolling through long records.
- ✓ Standard MultiView Zoom provides 4 separate zooms and can automatically scroll the waveform across the screen.
- ✓ Advanced Search and Mark automatic search is standard.
- ✓ Simultaneously and automatically search for up to 8 different types of events.
- ✓ Search on variety of digital features including setup/hold, logic, serial or parallel buses.
- ✓ Integrated analog, digital, and serial search mechanism.
- ✓ Automatically or manually mark events of interest, and then navigate through the record mark by mark.
- ✓ Search based on signal data values, reliably finding specified events (screen shot shows finding 3 runts and 3 glitches).

Agilent DSO 9000H Series



- ✗ Multiplexed horizontal acquisition and zoom controls.
- ✗ Single zoom window and manual scrolling through data with horizontal position control.
- ✗ All automatic searching is optional.
- ✗ Search for a single occurrence of a single event.
- ✗ No automated search for digital features such as setup/hold or logic/pattern.
- ✗ Separate serial search mechanism for each standard, with different user interface.
- ✗ No automatic or manual marks.
- ✗ Search based on signal data values, finding one specified event

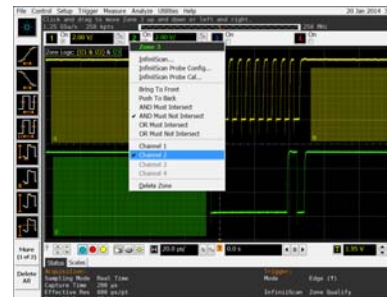
Visual Trigger and Search

Tektronix DPO7000C Series



- ✓ Visual Trigger and Search is standard and is integrated into Wave Inspector search.
- ✓ Up to 8 user-definable regions and can be associated with any of the analog channels.
- ✓ Visual Trigger areas can be moved, re-sized, and shapes can be modified.
- ✓ Visual Trigger can be used with search and Mark All Triggers.

Agilent DSO 9000H Series



- ✗ Infiniiscan Zone Quality is optional and is mutually exclusive with the other Infiniiscan search modes.
- ✓ Up to 8 user-definable rectangles and can be associated with any of the analog channels.
- ✗ Zones can be moved, but not re-sized, and shape can't be modified.
- ✗ Zone Quality triggering doesn't work with search.