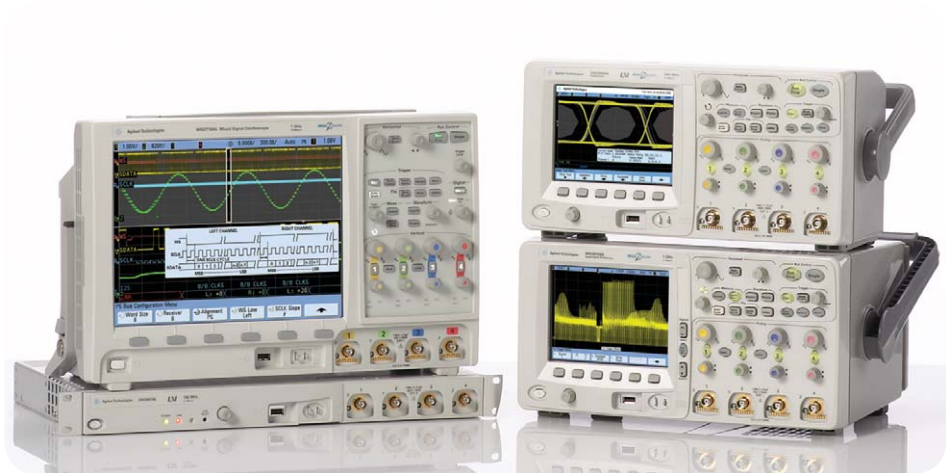


N5466A Agilent InfiniiVision Oscilloscopes Software Upgrade

Data Sheet

Get the most current features available that make your device validation and testing easier and more reliable.



Features:

- **Serial Lister** - In addition to seeing decoded packet data on the bus waveform itself, you can view all captured packets in a listing view where the decode match the on-screen waveform data. Compatible with Segmented Memory Application – N5454A (opt SGM)
- **FlexRay Eye Diagram Mask Testing (TP1 and TP4)**. Perform automatic pass/fail eye-diagram mask tests based on published FlexRay physical layer standards. Also requires the Mask Testing option (N5455A, or LMT) and the FlexRay decode and trigger option (N5432B, FR2, or predecessors).
- **FlexRay Event Triggering**. Trigger on a Frame End Sequence. Also requires the FlexRay decode and trigger option (N5432B, FR2, or predecessors).
- **Measurement Statistics** - Statistical data for enabled measurements such as mean, min, max, standard deviation and count
- **Waveform Tracking Cursors** - Tracking Cursors provides an additional mode for cursor positioning beyond the current manual method. When cursor tracking is enabled, changing a cursor's x-axis position results in the y-axis cursor tracking the corresponding y-axis (voltage, current, etc.) value.
- **Sequence Triggering on the 5000 series**. Arm on Event A, trigger on Event B, with option to reset on Event C or time delay.



Agilent Technologies

The N5466A InfiniiVision Oscilloscope Software Upgrade provides the latest features and enhancements for your 5000, 6000, 6000L and 7000 series oscilloscopes.

Agilent Technologies' serial decode lister

Provides detailed insight into your serial bus in a table format that is easy to read and easy to navigate through long records of captured data.

Figure 1 shows an example of the listing table decoding a SPI bus

With Agilent's mask testing capability and Flexray Eye Diagram features, you can perform automatic pass/fail eye-diagram mask tests based on published FlexRay physical layer standards.

Figure 2 below shows an example of a Flexray mask test.

Get up to 4 simultaneous measurements with 5 additional statistics beyond just the current value. These measurements are optimized to run fast, in some cases, up to nearly 1K measurements/second can be achieved.

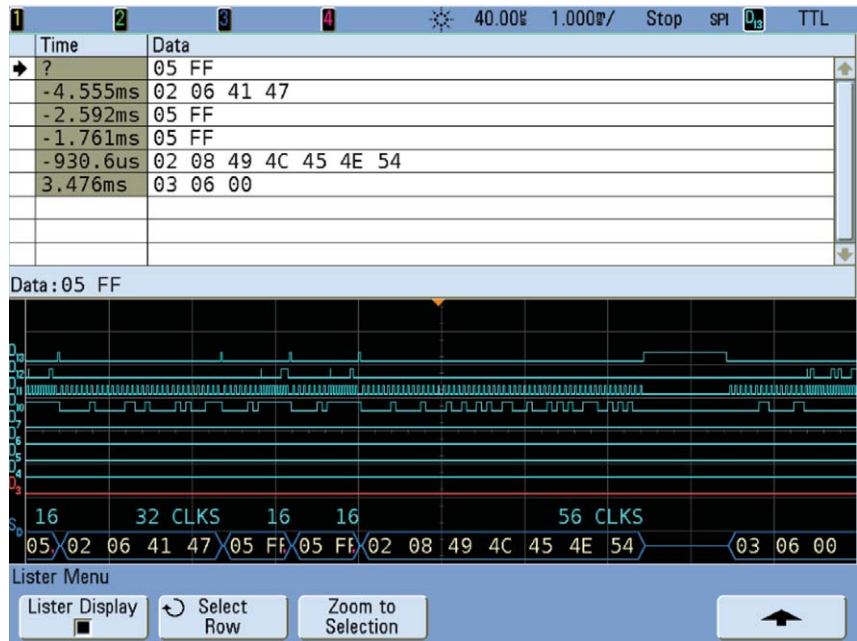


Figure 1: Agilent's Flexray Eye Diagram

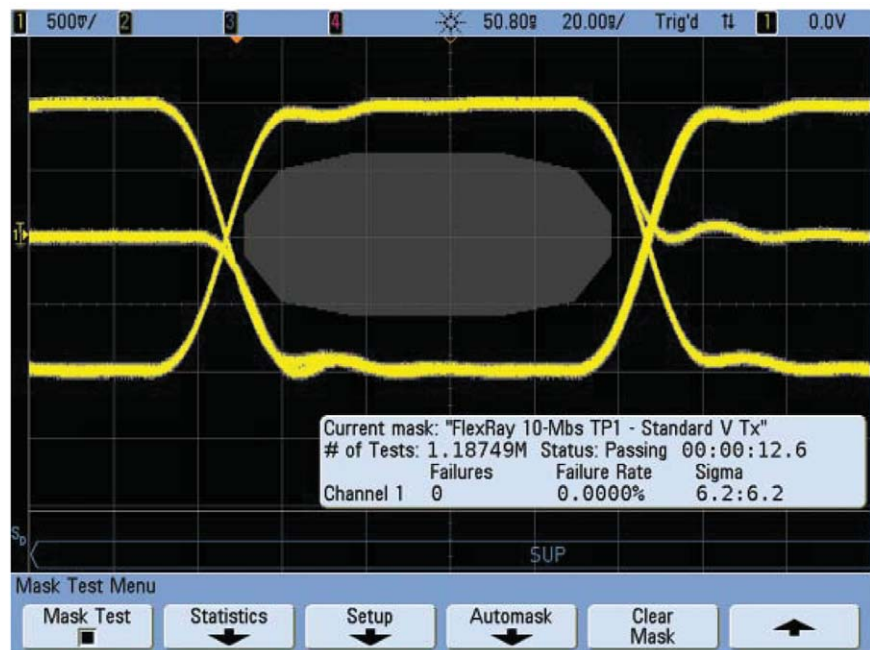
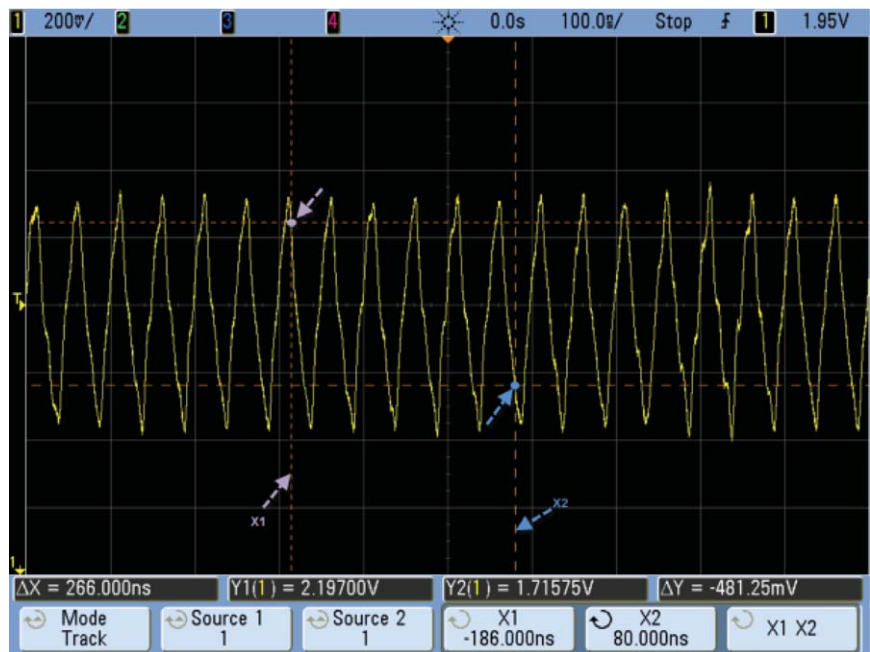
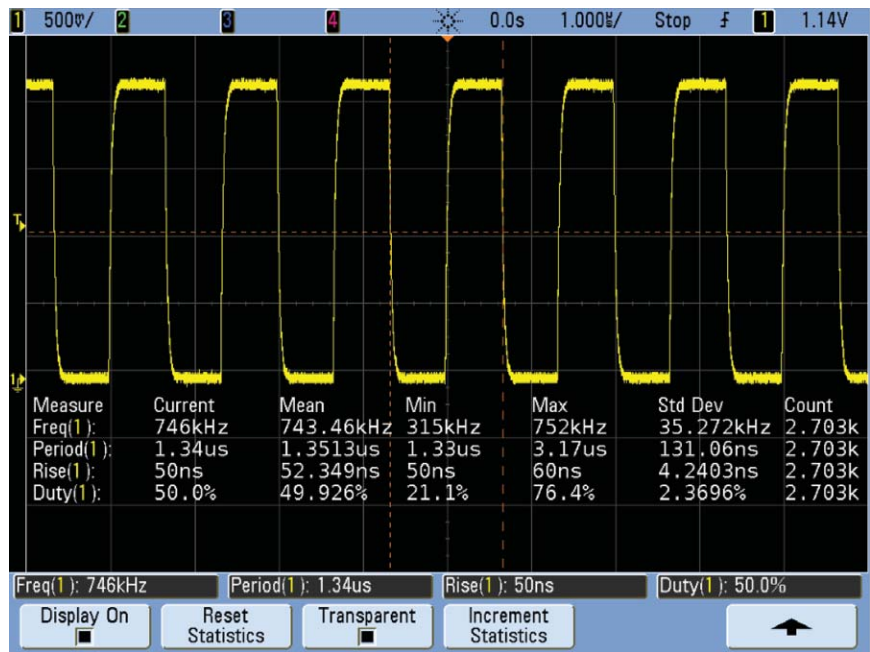


Figure 1: Measurement Statistics and Tracking Cursors

Tracking Cursors provides a means of adjusting horizontal position for cursors X1 and X2, where Y1 and Y2 (respectively) then track the waveform at the intersection with the X1 and X2. With this feature, you can vary inputs X1 and/or X2 to see what the resulting Y(X1) or Y(X2) value is on the waveform.



Agilent InfiniiVision Portfolio

Agilent's InfiniiVision lineup includes 5000, 6000 and 7000 Series oscilloscopes. These share a number of advanced hardware and software technology blocks. Use the following selection guide to determine which best matches your specific needs.



**Largest display,
shallow depth**



**Optional battery,
100 MHz MSO**



**Ideal for ATE
rackmount
applications**



**Smallest form
factor, lowest
price**

Bandwidth	7000 Series	6000S Series	6000L Series	5000 Series
100 MHz Bandwidth	•	•	•	•
300/350 MHz Bandwidth	•	•	•	•
500 MHz Bandwidth	•	•	•	•
1 GHz Bandwidth	•	•	•	
MSO Models	•	•	•	
GPIB Connectivity		•	•	•
Rackmount height	7U	5U	1U	5U
Battery option		•		
Display size	12.1"	6.3"		6.3"
Footprint (WxHxD)	17.9"x 10.9"x 6.8"	15.7"x 7.4"x 11.1"	17.1"x 1.7"x 10.6"	15.2"x 7.4"x 6.9"



Agilent's InfiniiVision oscilloscope portfolio offers:

- A variety of form factors to fit your environment
- Responsive controls and best signal visibility
- Insightful application software
- Responsive deep memory with MegaZoom III

Ordering Information

The N5466A is compatible with all Agilent InfiniiVision Series oscilloscopes (5000, 6000, and 7000 series) and is available as an after-purchase product upgrade. The following options are also available for InfiniiVision series oscilloscopes.

Model number user installed	Option number factory installed	Description
N5466A	N/A	InfiniiVision Oscilloscope Software Upgrade
N5468A	SND	I2S triggering and decode (4 and 4+16 channel models only)
N5457A	232	RS232/UART triggering and decode (4 and 4+16 channel models only)
N5423A	LSS	I2C/SPI serial decode option (4 and 4+16 channel models only)
N5424A	AMS	CAN/LIN automotive triggering and decode (4 and 4+16 channel models only)
N5432B	FR2	FlexRay automotive triggering and decode (4+16 channel models only and requires VPT1000 FlexRay Vehicle Protocol Tester)
N5454A	SGM	Segmented Memory
N5455A	LMT	Mask Waveform Limit Testing

Note that additional options and accessories are available for Agilent InfiniiVision Series oscilloscopes. Refer to the appropriate 5000, 6000, or 7000 Series data sheet for ordering information about these additional options and accessories, as well as ordering information for specific oscilloscope models.

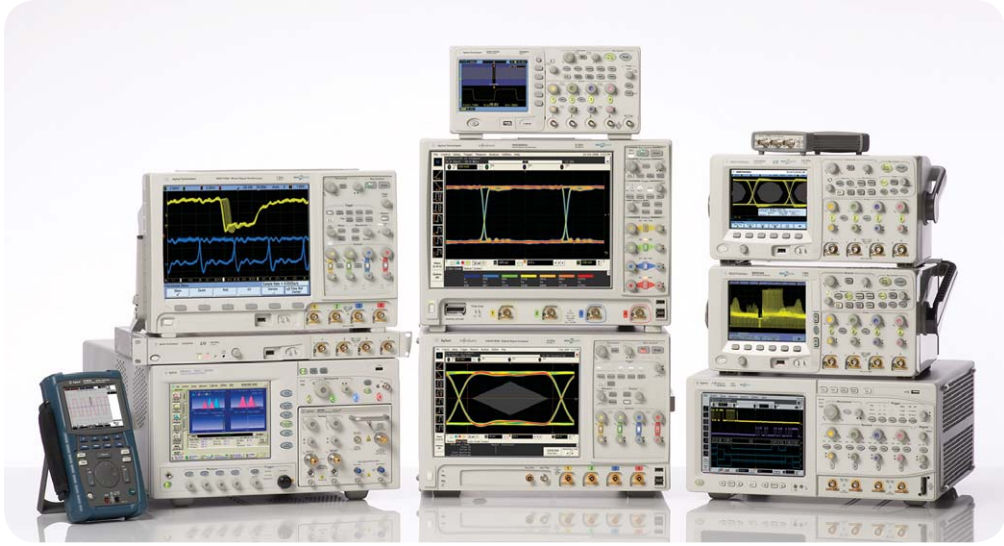
Publication title	Publication type	Publication number
<i>Agilent Technologies Oscilloscope Family Brochure</i>	Brochure	5989-7650EN
<i>Agilent 7000 Series InfiniiVision Oscilloscopes</i>	Data sheet	5989-7736EN
<i>Agilent 6000 Series InfiniiVision Oscilloscopes</i>	Data sheet	5989-2000EN
<i>Agilent 5000 Series InfiniiVision Oscilloscopes</i>	Data sheet	5989-6110EN
<i>Agilent InfiniiVision Series Oscilloscope Probes and Accessories</i>	Data sheet	5968-8153EN
<i>I²S datasheet</i>		
<i>Segmented Memory Acquisition (5454A) for Agilent InfiniiVision Series Oscilloscopes</i>	Data sheet	5989-7833EN
<i>RS-232/UART Triggering and hardware-based decode (N5457A) for Agilent InfiniiVision Series Oscilloscopes</i>	Data sheet	5989-7832EN
<i>I²C and SPI triggering and hardware-based decode (N5423A) for Agilent InfiniiVision Series Oscilloscopes</i>	Data sheet	5989-5126EN
<i>CAN/LIN (N5424A) decode and triggering option for Agilent InfiniiVision Series Oscilloscopes</i>	Data sheet	5989-6220EN
<i>FlexRay (N5432B) decode and triggering option for Agilent InfiniiVision Series Mixed Signal Oscilloscopes</i>	Data sheet	5989-9635EN
<i>Evaluating Oscilloscopes for Best Signal Visibility</i>	Application note	5989-7885EN
<i>Debugging Embedded Mixed-Signal Designs Using Mixed Signal Oscilloscopes</i>	Application note	5989-3702EN
<i>Using an Agilent InfiniiVision MSO to Debug an Automotive CAN Bus</i>	Application note	5989-5049EN
<i>Choosing an Oscilloscope with the Right Bandwidth for your Applications</i>	Application note	5989-5733EN
<i>Evaluating Oscilloscope Sample Rates vs. Sampling Fidelity</i>	Application note	5989-5732EN
<i>Evaluating Oscilloscope Vertical Noise Characteristics</i>	Application note	5989-3020EN

To download these documents, insert the publication number in the URL:

<http://cp.literature.agilent.com/litweb/pdf/xxxx-xxxxEN.pdf>

Product Web site

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