BK2560 series

Digital Storage and Mixed Signal Oscilloscopes

B&K PRECISION®
ELECTRONIC TEST INSTRUMENTS

Sefram

Overview

- Large 8" widescreen display

- Bandwidth up to 300 MHz

- 2 GSa/s maximum sample rate

- 140 Mpts maximum record length

- 16 digital channels with logic analyzer (MSO models)

- Serial bus decoding supporting I2C, SPI, UART/RS232, CAN, and LIN protocols (Decode upgrade)

- Built-in Function and Arbitrary Waveform Generator (AWG upgrade)

- 140,000 wfms/s maximum waveform capture rate

- FFT including seven other math functions: Addition, Subtraction, Multiplication, Division, Integration, Differential, and Square Root

- 36 automatic measurements

- Standard LAN and USBTMC-compliant USB device port

- 3 Year Warranty

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Front Panel

8-inch TFT-LCD display
8-inch high resolution TFT-LCD display lets you see more details in your signal.

Advanced triggering
Isolate the signal with advanced triggering including Edge, Slope, Pulse, Video, Window, Interval, DropOut, Runt, and Pattern trigger types.

Auto setup
Vertical, horizontal, and trigger controls are automatically adjusted for fast signal display.
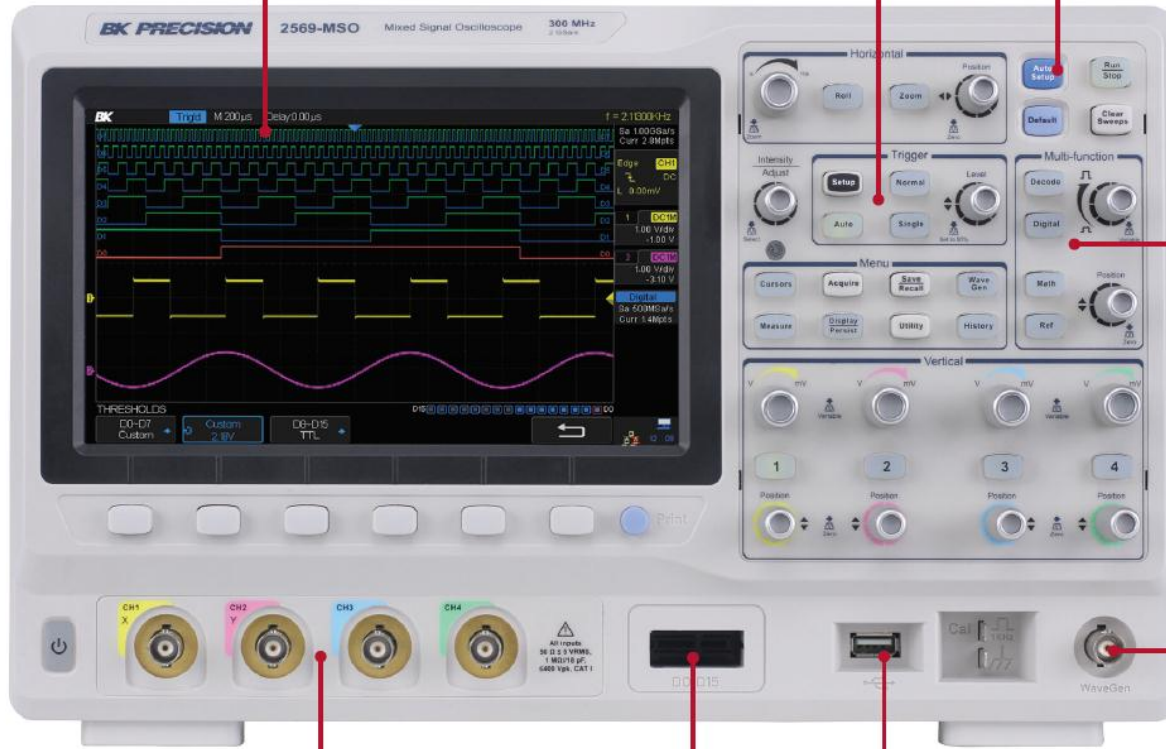
Serial Decoding
Decode and analyze I²C, SPI, UART/RS232, CAN, and LIN protocols and display results in binary, decimal, hex, or ASCII in real-time. Enabled with decode upgrade or try 30 times for free with each unit.

Arbitrary Waveform Generator Output
The 25 MHz waveform generator is enabled with the generator upgrade or try 30 times for free with each unit.

Intuitive channel operation
All channels in the 2560 Series are clearly indicated by their own color, labeled on the input, knobs, and display.
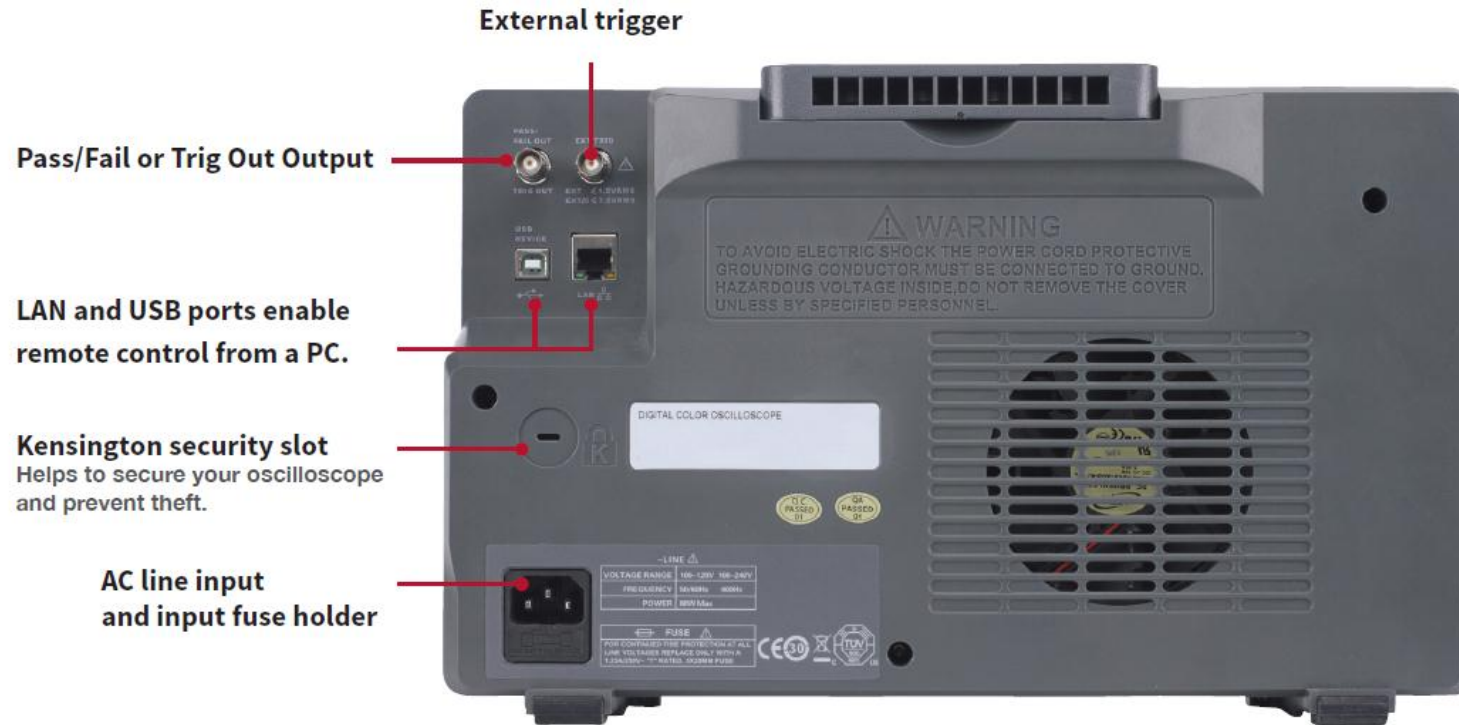
16-Channel Digital Ports
Connect a logic analyzer probe to access 16 digital channels enabled with MSO upgrade or try 30 times for free with each unit.

USB host port
Connect your USB flash drive to conveniently store and recall waveform data, setups, and screenshots.

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Rear Panel

External trigger

Pass/Fail or Trig Out Output

LAN and USB ports enable remote control from a PC.

Kensington security slot
Helps to secure your oscilloscope and prevent theft.

AC line input and input fuse holder

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The tools you need

Fast waveform capture rate up to 140,000 wfms/s, Record length up to 140 Mpts,

Fast waveform capture rate up to 140,000 wfms/s

The 2560 Series delivers up to 140,000 wfms/s update rate to help you detect in frequent anomalies and glitches more quickly.

Record length up to 140 Mpts

Using hardware-based Zoom technologies with record lengths of 140 Mpts, users are able to capture more of their signal with higher sampling rates and quickly zoom into the event of interest.

BK2560 series
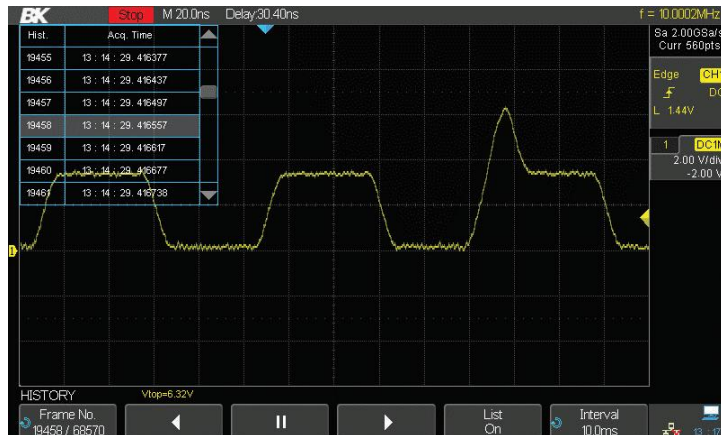**Digital Storage and Mixed Signal Oscilloscopes**

The tools you need

## History and segmented acquisition (Sequence) mode, Pass/Fail mask testing

History and segmented acquisition (Sequence) mode

Use the instrument's History and Sequence function to record and play back waveforms to find anomalies and quickly locate the source of the problem via cursor or measurement parameters.

Pass/Fail mask testing

The BK2560 Series high speed hardware based pass/fail limit function can perform up to 140,000 pass/fail tests per second.
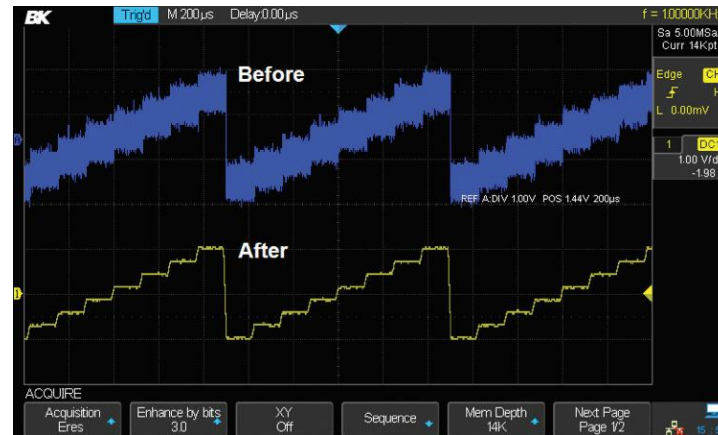
BK2560 series
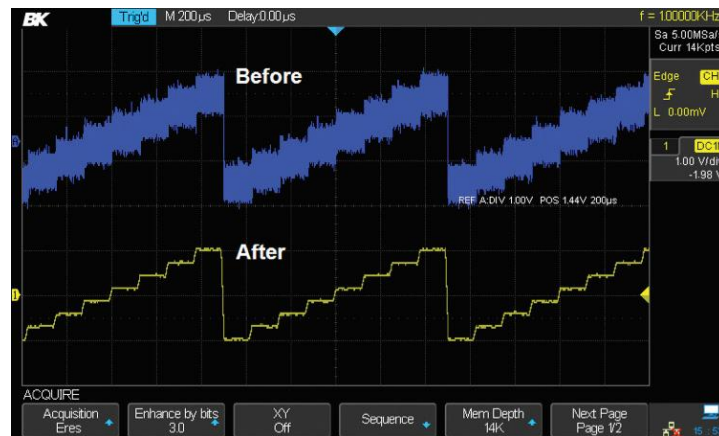**Digital Storage and Mixed Signal Oscilloscopes**

The tools you need

Eres (Enhanced Resolution) mode, PC connectivity

Eres (Enhanced Resolution) mode

Eres mode can improve the SNR effectively, without the dependence on the periodicity of the signal and stable triggering.

PC connectivity

PC software is provided (free download at www.bkprecision.com) for seamless integration between the oscilloscope and PC. Capture and transfer waveforms, screen images, setups and measurement results to a Windows PC via the USB device port on the back of the instrument. A USB host port on the front allows for quick and easy screen saving.

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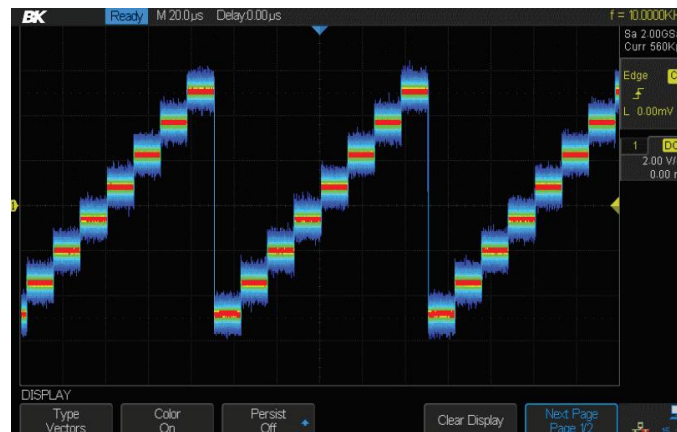
The tools you need

256-level intensity grading and color temperature display

256-level intensity grading and color temperature display

Discover and visualize more details of your signal for better analysis of its behavior.

256-level intensity grading

Color temperature display

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The tools you need

Included in all MSO models : MSO license - LA2560, 16 channel logic probe - LP2560

MSO license - LA2560

The 16 integrated digital channels are displayed along-side analog channels allowing users to view up to 18 time-correlated channels with shared triggering and acquisition on one screen. The LA2560 license enables the 16 digital channels of the 2560 Series and is included with MSO models.
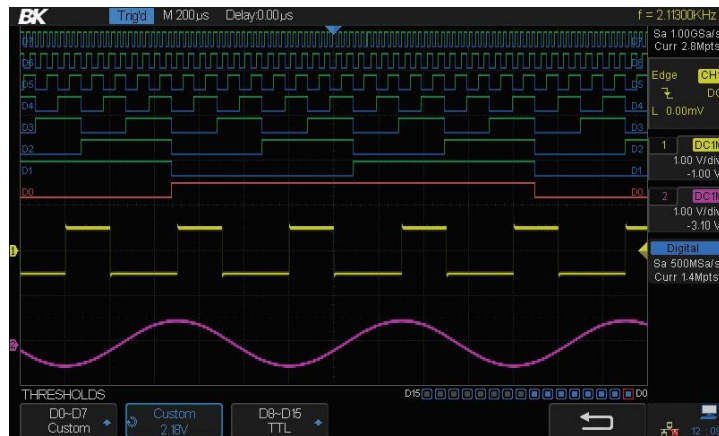
16 channel logic probe - LP2560

The 16-channel color-coded logic probe consists of two eight-channel pods. To make contact with the DUT, the probe connects directly to square pins or clips to test points using the included grabbers. With an input capacitance of only 8 pF and 100 kΩ input impedance, the probe protects the integrity of your signal. The probe is included with MSO models.

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The tools you need

Decode license - DC2560, AWG license - FG2560

Decode license - DC2560

Select up to 2 serial bus protocols I2C, SPI, UART/RS232, CAN, and LIN and decode concurrently from analog and MSO channels. Decode information in real-time and display in binary, decimal, hex, or ASCII.
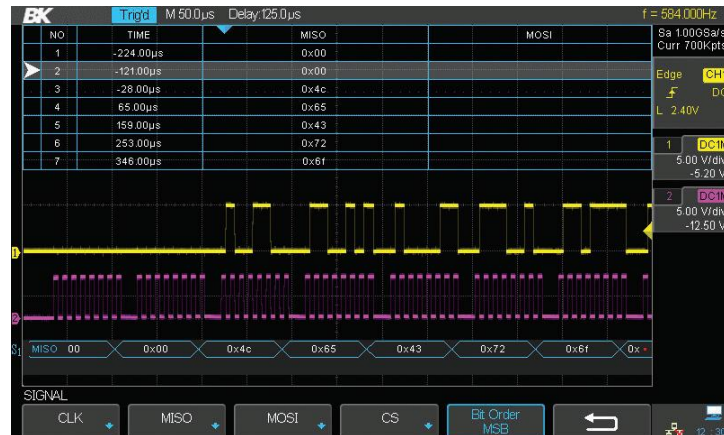
AWG license - FG2560

Take advantage of the generator's 10 built-in waveforms or generate up to 4 of your own arbitrary waveforms via waveform editing software.
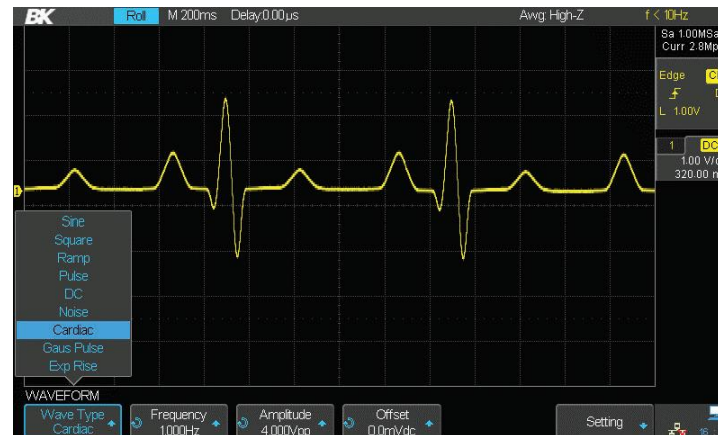
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Buy now, upgrade later

Install the MSO and decode licenses at any time or try before you buy with the 30 trial license on each model. Any DSO model in the 2560 Series can be upgraded to an MSO. Installation is quick and easily done within the oscilloscope menu. To purchase a license key, please fill out the license request form or visit the 2560 Series accessories page.

Available Upgrades		
	DSO Models	**MSO Models**
16-channel logic probe (LP2560)	Optional	Standard
Enables the logic analyzer (LA2560)	Optional*	Standard
Enables the bus decode and analysis package (DC2560)	Optional*	Optional*
25 MHz function/arbitrary waveform generator (FG2560)	Optional	Optional

*Licenses LA2540C and DC2540C will not be offered through distribution for the time being. End users can purchase licenses directly from B&K Precision through the website.

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Price information

Digital Storage and Mixed Signal Oscilloscopes

DSO Model	BK2563	BK2565	BK2566	BK2567	BK2568	BK2569
MSO Model	BK2563-MSO	BK2565-MSO	BK2566-MSO	BK2567-MSO	BK2568-MSO	BK2569-MSO
Bandwidth	70 MHz	100 MHz	200 MHz	200 MHz	300 MHz	300 MHz
Channels	4	4	2	4	2	4
DSO Price	1 490 €	1 850 €	1 750 €	2 200€	2 250 €	2 950 €
MSO Price	2 050 €	2 390 €	2 350 €	2 800€	2 800 €	3 690 €

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Price information

Accessories

MSO license* - LA2560 → **License request**

Decode license* - DC2560 → **License request**

16-channel logic probe - LP2560 → **500 €**

16-channel logic probe

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Competitive Comparison

2560 Series DSO and MSO Comparison Guide

2 GSa/s, 4 Channel, MSO Upgradable

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	2560 Series B&K Precision	2000 X-Series Keysight	2000B Series Tektronix	RTB2000 Series Rohde & Schwarz	Instek GDS-2000A Series	Rigol DS2000A series DSO	Rigol DS2000A series MSO	Rigol DS4000A series DSO	Rigol DS4000A series MSO
4 Channel Base Price	1 490€, 1 850€, 2 200€, 2 250€, 2 950€	1 911€, 2 257€, 2 719€	1 200€, 1 564€	1 900€, 2 245€, 2 710€, 3 650€	1 490€, 1 761€, 2 041€, 2 851€	749€, 1 195€, 1 645€, 2 145€	1 285€, 1 535€, 1 895€, 2 395€	1 995€, 2 455€, 3595€	2 845€, 3 445€, 5 345€
Bandwidth	70 MHz/ 100 MHz/ 200 MHz/ 300 MHz	70 MHz/ 100 MHz/ 200 MHz	70 MHz/ 100 MHz	70 MHz/ 100 MHz/ 200 MHz/ 300 MHz	70 MHz/ 100 MHz/ 200 MHz/ 300 MHz	70 MHz/ 100 MHz/ 200 MHz/ 300 MHz	70 MHz/ 100 MHz/ 200 MHz/ 300 MHz	100 MHz / 200 MHz / 350 MHz	100 MHz / 200 MHz / 350 MHz
MSO functionality*	+580€	+745€	+660€	+770€	X	✓	✓	X	✓
Channels	2, 4	2, 4	2, 4	2, 4	2, 4	2	2	4	4
MSO Digital Channels	16	8	16	16	16	0	16	0	16
Sample Rate	2 GSa/s (interleaved)	2 GSa/s (interleaved)	1 GSa/s	2.5 GSa/s (interleaved)	2 GSa/s (interleaved)	2 GSa/s (interleaved)	2 GSa/s (interleaved)	4 GSa/s (interleaved)	4 GSa/s (interleaved)
Record Length	140 Mpts	1 Mpts	1 Mpts	10 Mpts	2 Mpts	14 Mpts	14 Mpts	140 Mpts	140 Mpts
Waveform Capture Rate	140,000 wfms/s	50,000 wfms/s	5,000 wfms/s	50,000 wfms/s	80,000 wfms/s	50,000 wfms/s	50,000 wfms/s	110 000 wfs/s	110 000 wfs/s
Display	8" widescreen	8.5" widescreen	7" widescreen	10.1" capacitive touch	8" color LCD display	8" color LCD display	8" color LCD display	9" color LCD display	9" color LCD display
LAN	✓	Upgradable (403€)	Upgradable (560€)	✓	Upgradable (DS2-LAN - 350€)	✓	✓	✓	✓
Function Generator	Upgradable (250€)	Upgradable (509€)	X	Upgradable (770€)	Upgradable (DS2-FGN - 250€)	✓	✓	X	X
Decoding and Serial Triggering Option	400€	1250€	750€	1500€	723€	CAN-DS2000A - 239€ + SD-DS2000 - 239€	CAN-DS2000A - 239€ + SD-DS2000 - 239€	SD-RS232-DS4000 - 658€, SD-I2C/SPI-DS4000 - 658€, SD-CAN-DS4000 - 549€, SD-FlexRay-DS4000 - 1 235€	SD-RS232-DS4000 - 658€, SD-I2C/SPI-DS4000 - 658€, SD-CAN-DS4000 - 549€, SD-FlexRay-DS4000 - 1 235€
MSO Probe	LP2540C - 480€	$640	660€	495€	GTL-16LA	X	included	X	included

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