# **Revision Record**

6/11/2025       2.0.5.5       1. Fixed some issues on the production line         12/25/2024       2.0.5.4       1. Optimized the UI         2. Analysis: Added SignalScan, a powerful tool which can automatic scan the acquired signals on the software according to the so conditions set by users, and mark them with red vertical lines rectangular boxes         3. Zoom       a) Supported ZFx (Zoom of Math trace) and ZMx (Zoom of Mem trace)         b) Supported M1 and M2 modes (Acquire   Zoom). In M1 mode Zx channels share the same vertical scale while in M2 mode?         vertical scales are separately adjustable         4. Serial Decode:         a) Supported M1 and Memory trace as source         b) Supported Math and Memory trace as source         b) Supported Math and Memory trace as source         c) Added One Key Search (Recalling SignalScan to search i specified item) for SPI, I²C and UART         5. Mask Test: Supported Math and Memory trace as source         6. Measure: added item UpperLower, <time1~4< td="">         7. Math         a) Supported Measure result (MeaX) as part of the formular         b) Added new operator: Envelope         c) FFT: Added new item Project (including setup, waveforms a screenshots)         11. SCPI: Optimized transport efficiency of command WAVE         12. Fixed several bugs         6/29/2024       1.4.9.5         Made Option 16LA and Option FG Standard         4/22/20</time1~4<>	Date	Version	evision		
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<ul> <li>Math <ul> <li>a) Supported Measure result (MeaX) as part of the formular</li> <li>b) Added new operator: Envelope</li> <li>c) FFT: Added new windows: Blackman_Harris and Gaussian</li> </ul> </li> <li>8. Channel: Supported movable label <ul> <li>9. WebServer: Added virtual front panel</li> <li>10. Save/Recall: Added new item Project (including setup, waveforms a screenshots)</li> </ul> </li> <li>11. SCPI: Optimized transport efficiency of command WAVE</li> <li>12. Fixed several bugs</li> </ul> <li>6/29/2024 1.4.9.3 1. Supported new probes: Siglent's SCP5030, SCP5030A, SCP51: SCP5500 and LeCroy's CP150, HVD3106A</li> <li>2. Option to hide Memory and Math traces</li> <li>3. Webserver: Screenshot can be directly copied and pasted</li> <li>4. Fixed several bugs <ul> <li>a) Decode Threshold bug</li> </ul> </li>			5. Mask Test: Supported Math and Memory trace as source		
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screenshots) 11. SCPI: Optimized transport efficiency of command WAVE 12. Fixed several bugs 6/29/2024 1.4.9.5 Made Option 16LA and Option FG Standard 4/22/2024 1.4.9.3 1. Supported new probes: Siglent's SCP5030, SCP5030A, SCP518 SCP5500 and LeCroy's CP150, HVD3106A 2. Option to hide Memory and Math traces 3. Webserver: Screenshot can be directly copied and pasted 4. Fixed several bugs a) Decode Threshold bug			9. WebServer: Added virtual front panel		
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12. Fixed several bugs         6/29/2024       1.4.9.5         Made Option 16LA and Option FG Standard         4/22/2024       1.4.9.3         1. Supported new probes: Siglent's SCP5030, SCP5030A, SCP513         SCP5500 and LeCroy's CP150, HVD3106A         2. Option to hide Memory and Math traces         3. Webserver: Screenshot can be directly copied and pasted         4. Fixed several bugs         a) Decode Threshold bug					
6/29/2024       1.4.9.5       Made Option 16LA and Option FG Standard         4/22/2024       1.4.9.3       1.       Supported new probes: Siglent's SCP5030, SCP5030A, SCP513 SCP5500 and LeCroy's CP150, HVD3106A         2.       Option to hide Memory and Math traces         3.       Webserver: Screenshot can be directly copied and pasted         4.       Fixed several bugs         a)       Decode Threshold bug					
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<ul> <li>SCP5500 and LeCroy's CP150, HVD3106A</li> <li>2. Option to hide Memory and Math traces</li> <li>3. Webserver: Screenshot can be directly copied and pasted</li> <li>4. Fixed several bugs <ul> <li>a) Decode Threshold bug</li> </ul> </li> </ul>	6/29/2024	1.4.9.5	Made Option 16LA and Option FG Standard		
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<ul> <li>Webserver: Screenshot can be directly copied and pasted</li> <li>Fixed several bugs <ul> <li>a) Decode Threshold bug</li> </ul> </li> </ul>			SCP5500 and LeCroy's CP150, HVD3106A		
<ul><li>4. Fixed several bugs</li><li>a) Decode Threshold bug</li></ul>			2. Option to hide Memory and Math traces		
a) Decode Threshold bug			3. Webserver: Screenshot can be directly copied and pasted		
			4. Fixed several bugs		
b) NO persistence available with frames captured by SEQUENC			a) Decode Threshold bug		
			b) NO persistence available with frames captured by SEQUENC	CE	
10/9/2023 1.4.8.3 1. FFT: supported horizontal log axis	10/9/2023	1.4.8.3	1. FFT: supported horizontal log axis		
2. Channel: optimized strategy of adding a trace			2. Channel: optimized strategy of adding a trace		



Date	Version	Revision			
		Fixed several bugs			
		a) Bode plot: load and sweep settings not remembered; no virtual			
		keypad for setting of some parameters			
		b) ARINC429 trigger not work on SDS6104 Pro			
5/12/2023	1.4.6.0	1. Decode: supported ARINC429			
		2. Supported to display the average count when Acquisition = Average			
		3. Optimized the label style of Digital channels			
		4. Fixed several bugs			
		a) DY-WTFK-202107273767: [Bode Plot]Automatic measurements			
		partially broken			
		b) [DY-WTFK-202207196459] Change "Net Storage" to "SMB			
		Storage"			
4/18/2023	1.4.5.2	1. Eye Diagram: supported 100Base-T1 (PAM3)			
		2. SCPI: Supported Search			
		3. Supported USB-GPIB			
		4. Fixed several bugs			
		a) DY-WTFK-202203165613: Spectrum menu after installing			
		b) DY-WTFK-202209237014: Scope restarts acquisition after few			
		seconds when stopped			
		c) DY-WTFK-202207076348: Filter settings way off in special			
		acquisition modes			
		d) DY-WTFK-202209237015: Zone trigger doesn't work at some			
		input frequencies			
11/4/2022	1.4.4.1	1. Force trigger strategy changed (same as SDS2000X HD)			
		2. Save/Recall			
		a) Supported to save all sequence segments			
		b) Supported Auto Save			
		<ul><li>3. Fixed several bugs</li><li>a) Cannot communicate with the SDG2000X and SDG7000A over</li></ul>			
		a) Cannot communicate with the SDG2000X and SDG7000A over USB in Bode Plot			
		b) Random +/-200 ps skew between channels after power/reboot			
		cycle			
		c) [Power analysis] - Switching losses - Error in calculations			
		d) FFT wrong vertical scale			
		e) Memory channel trace always on top			
6/28/2022	1.4.3.3	Note: This release cannot be downgraded to former releases.			
0, 20, 2022		1. Math: added filter operator			
		<ol> <li>Supported to save waveform as Memory traces, which store the raw</li> </ol>			
		data instead of the screen data (as Ref does), and can be source of			
		Measure/Math etc.			
		3. Measure: improved the AIM limit from 1,000 to up to 65,000 (AIM limit:			
		the upper limit of horizontal parameters measure statistics in one			
		frame )			
		· ·			



Date	Version	Revision				
		4.	Optimized intensity display of math traces.			
		5.	Added support for mouse wheel when using a mouse			
		6.	Supported CP030 current probe (with LPA10 adapter)			
		7.	Eye Diagram: 100Base-TX signal supported			
		8.	Trigger: Pattern trigger strategy changed			
		9.	Power Analysis:			
			a) Supported MOSFET SOA (Safe Operating Area)			
			b) Bigger table size			
		10.	Fixed several bugs			
			a) Moving the traces by gestures may cause the scope to freeze			
			b) [Bode Plot]Vertical Ref.level manual setting is partially bad			
			c) [Measure]Track plot - not working well in general			
			d) [Power Analysis]Current harmonics forgets table/bar view			
			e) Waveform Capture Rate breakdown at 20 ns/div			
			f) Measurements skip buffers in history mode			
2/10/2022	1.4.0.0	1.	Channel: two custom probe ratio options supported			
		2.	Fixed several bugs			
			a) Bode Plot draw error (missing draw)			
			b) Bode Plot - Very slow, nearly stuck, with some signal levels			
			c) Counter - totalizer not showing all numbers			
			d) Counter (time period) shows incredible numbers			
11/8/2021	1.3.9.0	1.	Added English help			
		2.	Added SCPI commands for network storage			
10/13/2021	1.3.7.0	1 <sup>st</sup> r	elease			

# Version Compatibility

Source Version	Object Version	Compatibility
1.4.3.3	2.0.5.4	Tested
1.4.3.3	1.4.9.3	Tested
1.4.5.2	1.4.8.3	Tested
1.4.4.1	1.4.8.3	Tested
1.4.3.3	1.4.8.3	Tested
1.4.0.0	1.4.8.3	Tested
1.3.9.0	1.4.8.3	Tested
1.4.4.1	1.4.5.2	Tested
1.4.3.3	1.4.5.2	Tested
1.4.0.0	1.4.5.2	Tested
1.3.9.0	1.4.5.2	Tested
1.4.3.3	1.4.4.1	Tested
1.4.0.0	1.4.4.1	Tested
1.3.9.0	1.4.4.1	Tested
1.3.7.0	1.4.4.1	Tested
1.4.0.0	1.4.3.3	Tested
1.3.9.0	1.4.3.3	Tested
1.3.7.0	1.4.3.3	Tested
1.3.9.0	1.4.0.0	Tested
1.3.7.0	1.4.0.0	Tested
1.3.7.0	1.3.9.0	Tested

## **Upgrade Instructions**

### Upgrade from a U-disk (USB Memory device)

### WARNING: DO NOT shut off the instrument until the update is completed.

- 1. Copy the update file (\*.ads) to a FLASH type U-disk, and then insert the U-disk into one of the USB host ports of the instrument.
- 2. Press the Utility button on the front panel, and press "*Maintenance -> Upgrade*". The following the menu should pop up and allow you to select the upgrade file

Upgrade	X
File Path	
File Path	Browse
Package Info	
Please select upgrade file	
	Upgrade

3. Click *Browse* in the menu above, and then select the correct update file (\*.ads) in the pop-up resource manager

Please select upgrade file						
く 〉 へ 命 U-disk0 > sds6 *.AE				*.ADS;*.CFG		
> 🚥 U-disk0 (7.0G/7.3G)	Name ,	∧ Size	Туре	Date Modified		
	SDS6000_V1.3.7.0.ADS	115.7 MB	ADS File	8 Nov 2021 10:4	13:36	
	SDS6000_V1.3.9.0.ADS	118.9 MB	ADS File	8 Nov 2021 10:4	13:42	
2 items					ſ	



4. Click the recall icon 🚑 in the interface above and return to the upgrade dialog.

Click Upgrade to perform the upgrade operation:

Upgrade	
File Path	
File Path /U-disk0/sds6/SDS6000_V1.3.9.0.ADS	Browse
Package Info	
Please select upgrade file	
	Upgrade

5. The system will first copy and verify the upgrade package. After the upgrade package is validated, the following interface will appear. Click *Reboot* to continue the upgrade, or click *Cancel* to cancel it.

Upgrade		X
File Path		
File Path /U-disk0/sds6/SDS6000_V1.3.9,0.ADS		Browse
Package Info		
System will reboot later, or you can cancel the upgrading!	Reboot(11)	Cancel

6. After the instrument reboots, check the version number through the Utility->System Info to confirm if the upgrade is successful.



System Info	×
Software Version:	1.3.9.0
Uboot-OS Version:	1.14
FPGA Version:	2021-10-13
CPLD Version:	c0
Hardware Version:	01-02
MCU Version:	20200720
Scope ID:	ac50-8a7c-3786-0a83
USB ID:	USB0::0xF4EC::0x1013::0123456789::INSTR
Serial No. :	
Model:	SDS6204A

WARNING: DO NOT shut off the instrument until the update is completed.

#### Upgrade from the Web Server

A built-in web server provides an approach to control the instrument by web browser. This process doesn't require any additional software to be installed on the controlling computer. Set the LAN port correctly (see the User Manual for details), input the IP address of the instrument in the browser address bar, and then the user can browse and control the instrument on the web.



#### WARNING: DO NOT shut off the instrument until the update is completed.

1. Click the "FirmwareUpdate" button in the web interface

Home Page	ScreenShot	Waveform Save	Bin_to_CSV_Tool	FirmWareUpdate
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 Select the correct update file (\*.ads) stored on the computer. The instrument will automatically download the update file and perform the upgrade once the file is specified.

WARNING: DO NOT shut off the instrument until the update is completed.