Revision Record

7/22/2025 1.1.9.1R9 1. Fixed some issues on the production line 2. Fixed several bugs a) Slow response in Jitter application b) Restart fails with small probability 4/3/2025 1.1.9.1R1 1. Supported new AP models: SDS7804AP, SDS7604AP 2. Supported new AP models: SDS7804AP, SDS7604AP 2. 3. Improved the response speed in the Case of deep waveform length 4. Compliance test: a) Added MIPI-DPHY b) Added 2.5G/5G/10GBASE-T c) For USB2.0, added Receiver Sensitivity test, and supported upgrading the FW of the fixture by the scope 5. Math: a) Added operator FFTPhase c) Added new windows Black-Harris and Gaussian for FFT 6. Decode: added CANXL 7. Optimized refresh speed in the case of Roll + Zoom	Date	Version	Rev	Revision	
 Fixed several bugs a) Slow response in Jitter application b) Restart fails with small probability 4/3/2025 1.1.9.1R1 Supported new AP models: SDS7804AP, SDS7604AP Supported Enhanced Bandwidth on 4GHz and below models (Only applied to units which are produced with 1.1.9.1R1 and later FW) Improved the response speed in the case of deep waveform length Compliance test: Added MIPI-DPHY Added 2.5G/5G/10GBASE-T For USB2.0, added Receiver Sensitivity test, and supported upgrading the FW of the fixture by the scope Math:	7/22/2025	1.1.9.1R9	1.	Fixed some issues on the production line	
 a) Slow response in Jitter application b) Restart fails with small probability 4/3/2025 1.1.9.1R1 1. Supported new AP models: SDS7804AP, SDS7604AP 2. Supported Enhanced Bandwidth on 4GHz and below models (Only applied to units which are produced with 1.1.9.1R1 and later FW) 3. Improved the response speed in the case of deep waveform length 4. Compliance test: a) Added MIPI-DPHY b) Added 2.5G/5G/10GBASE-T c) For USB2.0, added Receiver Sensitivity test, and supported upgrading the FW of the fixture by the scope 5. Math: a) Added operators Tan, Atan b) Added operator FFTPhase c) Added new windows Black-Harris and Gaussian for FFT 6. Decode: added CANXL 7. Optimized refresh speed in the case of Roll + Zoom 			2.	Fixed several bugs	
 b) Restart fails with small probability 4/3/2025 1.1.9.1R1 1. Supported new AP models: SDS7804AP, SDS7604AP 2. Supported Enhanced Bandwidth on 4GHz and below models (Only applied to units which are produced with 1.1.9.1R1 and later FW) 3. Improved the response speed in the case of deep waveform length 4. Compliance test: a) Added MIPI-DPHY b) Added 2.5G/5G/10GBASE-T c) For USB2.0, added Receiver Sensitivity test, and supported upgrading the FW of the fixture by the scope 5. Math: a) Added operators Tan, Atan b) Added operator FFTPhase c) Added new windows Black-Harris and Gaussian for FFT 6. Decode: added CANXL 7. Optimized refresh speed in the case of Roll + Zoom 				a) Slow response in Jitter application	
 4/3/2025 1.1.9.1R1 1. Supported new AP models: SDS7804AP, SDS7604AP 2. Supported Enhanced Bandwidth on 4GHz and below models (Only applied to units which are produced with 1.1.9.1R1 and later FW) 3. Improved the response speed in the case of deep waveform length 4. Compliance test: a) Added MIPI-DPHY b) Added 2.5G/5G/10GBASE-T c) For USB2.0, added Receiver Sensitivity test, and supported upgrading the FW of the fixture by the scope 5. Math: a) Added operators Tan, Atan b) Added operator FFTPhase c) Added new windows Black-Harris and Gaussian for FFT 6. Decode: added CANXL 7. Optimized refresh speed in the case of Roll + Zoom 				b) Restart fails with small probability	
 Supported Enhanced Bandwidth on 4GHz and below models (Only applied to units which are produced with 1.1.9.1R1 and later FW) Improved the response speed in the case of deep waveform length Compliance test: a) Added MIPI-DPHY b) Added 2.5G/5G/10GBASE-T c) For USB2.0, added Receiver Sensitivity test, and supported upgrading the FW of the fixture by the scope Math: a) Added operators Tan, Atan b) Added operator FFTPhase c) Added new windows Black-Harris and Gaussian for FFT Decode: added CANXL Optimized refresh speed in the case of Roll + Zoom 	4/3/2025	1.1.9.1R1	1.	Supported new AP models: SDS7804AP, SDS7604AP	
 applied to units which are produced with 1.1.9.1R1 and later FW) 3. Improved the response speed in the case of deep waveform length 4. Compliance test: a) Added MIPI-DPHY b) Added 2.5G/5G/10GBASE-T c) For USB2.0, added Receiver Sensitivity test, and supported upgrading the FW of the fixture by the scope 5. Math: a) Added operators Tan, Atan b) Added operator FFTPhase c) Added new windows Black-Harris and Gaussian for FFT 6. Decode: added CANXL 7. Optimized refresh speed in the case of Roll + Zoom 			2.	Supported Enhanced Bandwidth on 4GHz and below models (Only	
 3. Improved the response speed in the case of deep waveform length 4. Compliance test: a) Added MIPI-DPHY b) Added 2.5G/5G/10GBASE-T c) For USB2.0, added Receiver Sensitivity test, and supported upgrading the FW of the fixture by the scope 5. Math: a) Added operators Tan, Atan b) Added operator FFTPhase c) Added new windows Black-Harris and Gaussian for FFT 6. Decode: added CANXL 7. Optimized refresh speed in the case of Roll + Zoom 				applied to units which are produced with 1.1.9.1R1 and later FW)	
 4. Compliance test: a) Added MIPI-DPHY b) Added 2.5G/5G/10GBASE-T c) For USB2.0, added Receiver Sensitivity test, and supported upgrading the FW of the fixture by the scope 5. Math: a) Added operators Tan, Atan b) Added operator FFTPhase c) Added new windows Black-Harris and Gaussian for FFT 6. Decode: added CANXL 7. Optimized refresh speed in the case of Roll + Zoom 			3.	Improved the response speed in the case of deep waveform length	
 a) Added MIPI-DPHY b) Added 2.5G/5G/10GBASE-T c) For USB2.0, added Receiver Sensitivity test, and supported upgrading the FW of the fixture by the scope 5. Math: a) Added operators Tan, Atan b) Added operator FFTPhase c) Added new windows Black-Harris and Gaussian for FFT 6. Decode: added CANXL 7. Optimized refresh speed in the case of Roll + Zoom 			4.	Compliance test:	
 b) Added 2.5G/5G/10GBASE-T c) For USB2.0, added Receiver Sensitivity test, and supported upgrading the FW of the fixture by the scope 5. Math: a) Added operators Tan, Atan b) Added operator FFTPhase c) Added new windows Black-Harris and Gaussian for FFT 6. Decode: added CANXL 7. Optimized refresh speed in the case of Roll + Zoom 				a) Added MIPI-DPHY	
 c) For USB2.0, added Receiver Sensitivity test, and supported upgrading the FW of the fixture by the scope 5. Math: a) Added operators Tan, Atan b) Added operator FFTPhase c) Added new windows Black-Harris and Gaussian for FFT 6. Decode: added CANXL 7. Optimized refresh speed in the case of Roll + Zoom 				b) Added 2.5G/5G/10GBASE-T	
 upgrading the FW of the fixture by the scope 5. Math: a) Added operators Tan, Atan b) Added operator FFTPhase c) Added new windows Black-Harris and Gaussian for FFT 6. Decode: added CANXL 7. Optimized refresh speed in the case of Roll + Zoom 				c) For USB2.0, added Receiver Sensitivity test, and supported	
 5. Math: a) Added operators Tan, Atan b) Added operator FFTPhase c) Added new windows Black-Harris and Gaussian for FFT 6. Decode: added CANXL 7. Optimized refresh speed in the case of Roll + Zoom 				upgrading the FW of the fixture by the scope	
 a) Added operators Tan, Atan b) Added operator FFTPhase c) Added new windows Black-Harris and Gaussian for FFT 6. Decode: added CANXL 7. Optimized refresh speed in the case of Roll + Zoom 			5.	Math:	
 b) Added operator FFTPhase c) Added new windows Black-Harris and Gaussian for FFT 6. Decode: added CANXL 7. Optimized refresh speed in the case of Roll + Zoom 				a) Added operators Tan, Atan	
 c) Added new windows Black-Harris and Gaussian for FFT 6. Decode: added CANXL 7. Optimized refresh speed in the case of Roll + Zoom 				b) Added operator FFTPhase	
 Decode: added CANXL Optimized refresh speed in the case of Roll + Zoom 				c) Added new windows Black-Harris and Gaussian for FFT	
Optimized refresh speed in the case of Roll + Zoom			6.	Decode: added CANXL	
			7.	Optimized refresh speed in the case of Roll + Zoom	
8. Eye Diagram: added Second order PLL for Clock Recovery			8.	Eye Diagram: added Second order PLL for Clock Recovery	
9. Save/Recall			9.	Save/Recall	
a) Supported to save all segments in sequence mode to one				a) Supported to save all segments in sequence mode to one	
single .mat life				single .mai lie	
b) Supported to save all charmels data to one life				 Supported to save all charmers data to one me Supported Full Screep view of pictures in File Manager 	
10 Supported Wake on LAN (Some patting change is persone). Contact			10	C) Supported Full Screen view of pictures in File Manager	
SIGLENT for detailed information			10.	Supported Wake-on-LAN (Some setting change is necessary. Contact	
11 WGEN: supported the case in which built-in and external generators			11	WGEN: supported the case in which built in and external generators	
are both in use				are both in use	
12 Fixed several bugs			12	Fixed several burs	
12/25/2024 1177 1 Supported new model: SDS7604A H12	12/25/2024	1177	12.	Supported new model: SDS7604A H12	
2 Cursor: new cursor strategy supporting multi-cursors	12/20/2024	1.1.7.7	2		
3 Made Option 16LA Standard			3	Made Option 16LA Standard	
4 Fixed several bugs			4	Fixed several bugs	
a) Stuck at splash screen after upgrade				a) Stuck at splash screen after upgrade	
5. Power off operation at start-up process brings the instrument to dead			5.	Power off operation at start-up process brings the instrument to dead	
6/4/2024 1.1.5.2 Solved some issue on production line	6/4/2024	1.1.5.2		Solved some issue on production line	
3/28/2024 1.1.5.1 1. Cursor: Supported more cursors. and more flexible cursor combination	3/28/2024	1.1.5.1	1.	Cursor: Supported more cursors, and more flexible cursor combination	
2. Measure:		-	2.	Measure:	
a) Added item UpperLower				a) Added item UpperLower	
b) Supports to zoom in/out Histogram window				b) Supports to zoom in/out Histogram window	



SDS7000A Firmware Revision Record and Upgrade Instructions

Date	Version	Re	vision
			c) Supports two units for Histogram vertical axis: Percent, Count
		3.	Fixed several bugs
3/7/2024	1.1.4.2	1.	Supported new probes: Siglent's SCP5030, SCP5030A, SCP5150,
			SCP5500
		2.	Measure: Optimized UX of Track and Trend; Supported to export
			measure data
		3.	Fixed several bugs
			a) Slow response after pressing Math button
			b) AWG: SCPI cannot set Load
			c) Some bugs of USB2.0 compliance test
			d) Some bugs of 100Base-TX and 1000Base-T compliance test
		4.	Some bugs on Options' unlock
	1.1.2.0	1 st	release

Version Compatibility

Source Version	Object Version	Compatibility
1.1.2.0	1.1.9.1R9	Tested
1.1.2.0	1.1.9.1R1	Tested
1.1.2.0	1.1.7.7	Tested
1.1.2.0	1.1.5.1	Tested
1.1.2.0	1.1.4.2	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 3.0 host ports of the instrument.

2. Click "*Utility*-> *menu*" on the top menu bar, and then click "*Maintenance* -> *Upgrade*" on the right menu bar. 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





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-disk1/SDS7000_V1.1.4.2.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-disk1/SDS7000_V1.1.4.2.ADS		Browse
Package Info		
System will reboot later, or you can cancel the upgrading!	Reboot(18)	Cancel

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



System Info	×
Software Version:	1.1.4.2
Uboot-OS Version:	04.13.01
FPGA Version:	2023-09-06
CPLD Version:	00.00
Hardware Version:	01-01
MCU Version:	20210903
Scope ID:	e709-22fe-5861-2b5b
USB ID:	USB0::0xF4EC::0x1024::SDS70020230606::INSTR
Serial No. :	
Model:	SDS7404A H12

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



 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.