



## Instrument Firmware Release Notes

### Models

DS1054Z, DS1074Z, DS1104Z, DS1054Z-S, DS1074Z-S, DS1104Z-S, MSO1074Z, MSO1104Z, MSO1074Z-S, MSO1104Z-S

### Version Information

Released version: 00.04.03.02.03

Release Date: 10/20/2015

### Compatibility

Compatible with earlier versions of the hardware

### Change Log

Key:

E – Enhancements. Changes that add functionality

M – Modifications. Changes to improve performance on existing features

C – Cancellation. Removal of function or capability

\*Note: Engineering change log is translated from engineering documentation

Version : 00.04.03.02.03		Date : 2015-10-20
1.	Increase the remote command of set image type in image storage.	E
2.	Increase four measure items,+Pulses,-Pulses,+Edges,-Edges.	E
3.	Increase the remote command of image type and image format of image storage function.	E
4.	Increase the remote command of filter of Math function.	E
5.	The trigger position is wrong while digital channels and analog channels mixed in Pattern trigger type.	M
6.	The source of cursor is not update after the Math function closed.	M
7.	The value of AX and BX of cursor are wrong while undo the Auto operation in track cursor mode.	M
8.	In sweep mode,there are something wrong in switching display type.	M

9.	The menu of acquire can not refresh while change the timebase.	M
10.	The position of trigger level is wrong while change the channel's invert function.	M
11.	The wave of reference is wrong while storage the "CH1" wave of reference and change source of reference to "D0" then press the channel setting of reference.	M
12.	The position of trigger is wrong in high resolution mode.	M
13.	The value of variance measure item is wrong.	M
14.	The system crash down while run some remote command.	M
15.	The memory depth on the top of screen is wrong while load the wave file of storaged.	M
16.	The system crash down while trigger level set to 4 times of the vertical scale then reboot the system.	M
17.	The sytem status are wrong while change the trigger level and trigger mode after the "Auto" operation the undo the "Auto" operation.	M
18.	Fixed the bug of refresh display of waveform in single mode .	M
19.	Fixed the bug of the threshold value of LA channel is error while save the parameter file of the system.	M
20.	Fixed the bug of the position of track cursor is error after load the setting file of the system.	M

Version : 00.04.03.01.05		Date : 2015-06-16
1.	System menu adds support for French.	E
2.	Added the remote command and function for inter-connection with DG4.	E
3.	The module of Math increase the function of filter.	E
4.	Added the remote command which can set the invert and format of picture (:DISP:DATA? {<color>,<invert>,<format>})	E
5.	Optimized the algorithm of LF calibration and self-calibration and increase the prompt of failure.	M
6.	Turned on delay scanning and force stop the system,then the trigger position of waveform changed.	M
7.	In scanning mode,turned on the Zoom display and setted the AC as the trigger coupling,then adjusted the timebase of Zoom zone and the waveform display error.	M
8.	In mixed mode,use logic channel as trigger source and turn off the logic channel and stop the system,then adjust the timebase to the minimum,the part of analog signal disappeared.	M
9.	In mixed mode,use logic channel as trigger source and turn off the logic channel,then the analog signal shifted.	M
10.	The wave of channel1 can not be displayed while open the scan mode then switch the channel2 over and over again.	M
11.	The waveform will be move downward while change the trigger type from the pattern type to the edge type.	M
12.	In scanning mode,turned on the delay scan,the display of the first waveform is wrong.	M
13.	It can not display the waveform of trace when load the file of trace data in “STOP” mode and math module is on.	M
14.	Adjust the timebase offset can make the system crashed when run the	M

	“I2C Decoder”.	
15.	Save the waveform when turned on FFT function and use the momery data to operate and turn on split display,then load the waveform of saved,but the display of waveform is error.	M
16.	Save the waveform when turned on the delay scan and only the logic channel turned on and trigger source is logic channel,then default the system setting and load the waveform of saved,but the display of waveform is error.	M

<b>Version : 00.04.03.00.01</b>		<b>Date : 2015-05-05</b>	
	Support DS1104Z and DS1074Z models.		E

1.	Modified the method of key board test and screen test and optimized processing speed.	M
2.	The display of keyboard lights and the show of menu was wrong while switch the timebase mode between YT and ROLL in the Normal trigger mode.	M
3.	The saved data of REF waveform was wrong while STOP the system then open the channel.	M
4.	The output of AUX was wrong while the function of Pass/Fail was closed.	M
5.	The display of LA signal was wrong while adjust the delay calibration of LA signal.	M
6.	The position of LA wave and label of LA channel was wrong while load the file of LA waveform then RUN the system.	M
7.	The wave of channel1 can not be displayed while open the scan mode then switch the channel2 over and over again.	M
8.	The position of LA wave was wrong while load the file of LA waveform before change the position of the LA channel.	M
9.	The memory data of LA channel was wrong when use the remote command to read.	M
10.	Save the CSV file failed while the system stopped.	M
11.	Fixed the bug of unlocked the key board failure when save the file.	M

<b>Version : 00.04.02.04.07</b>		<b>Date : 2014-12-31</b>
1.	Fixed the bug of PLL clock unlocked which be found in the	M

	factory.	
2.	The check sum of upgrade file is error while use the GEL builder to package the upgrade file.	M
3.	The signal can not be triggered while change the trigger couple and adjust the trigger level.	M
4.	The signal which has offset can not be triggered while the trigger couple is AC and change the trigger type to the rise edge.	M
5.	The trigger level is error when the trigger couple switch to the AC.	M
6.	The wave of channel will be jitter after close the logic channel while the trigger source is logic channel.	M
7.	The display of Pass/Fail rule is error while create the rule after change the Pass/Fail source.	M
8.	There are some errors of create the new file or the new folder or rename files of the storage function.	M
9.	The system crashed while open the measure history and add the measure items under ROLL mode.	M
10.	The Math function error after undo the Auto function.	M
11.	The horizontal offset recovery error when adjust the horizontal offset is negative and then undo the Auto function.	M
12.	The positive and negative slop measure item result unit are error and the help information of measure item are incorrect.	M
13.	The system status is incorrect when load the wave file of saved under the wait state, then adjust the trigger level.	M
14.	The cursor display is error when the system from the XY Mode to the automatic mode.	M

15.	The statistical information of PASS/FAIL is error when switch the source and start the PASS/FAIL testing.	M
16.	Create the PASS/FAIL rules is error.	M
17.	The logic signal is error when adjust the time delay correction to 100ns under the delayed sweep mode.	M
18.	The reference waveform position is error after saving a reference waveform, then switch sources and reset the reference waveform.	M
19.	The system trigger is error when the slope of the trigger conditions for a positive slope greater than the set value.	M
20.	The source default output waveform is error when recovery the source setting to the factory settings and open source output.	M
21.	The signal wave does not move when adjust the time base from the maximum value to the minimum value under the wait state.	M
22.	The SPI data set will be error when the SPI data width less than 8 under the SPI trigger.	M
23.	Set the limited of pulse width is invalid under runt trigger.	M
24.	The measure item of VAMP of channel2 is error while create the measure item of rise phase from channel2 to channel1 .	M
25.	The signal will be jitter when set the trigger couple is AC or LF.	M
26.	The trigger couple setting can influence the trigger type except the trigger type of edge.	M
27.	The signal horizontal offset recovery is error when adjust the system's time base to the minimum value and the load the wave file from U disk driver.	M

<b>Version : 00.04.02.03.00</b>		<b>Date : 2014-10-21</b>
1.	Verify the model string for DS/MSO, MSO must has 'M' at first and DS must has 'D' at first.	E
2.	Increased the remote command of store and load mask data of the module of Pass/Fail.	E
3.	The function of self-calibration failure while batch verification in Rigol factory.	M
4.	RS232 decoder shows '9' for '8' input in ASCII format.	M
5.	There is data error while use LA channel as SCL trigger data in SPI Trigger.	M
6.	Pattern trigger position error while use LA channel as trigger source in Pattern Trigger.	M
7.	Delay and Phase measure item of LA channel error when system STOP.	M
8.	Adjusted channel displacement in I2C trigger, the waveform is not triggered.	M
9.	The measure item show has error when delete and restore the measure item.	M
10.	1HZ sine under the default settings are not properly refresh.	M
11.	Waveform disappear when switch channels use LA channel as trigger source.	M
12.	Source parameters are not updated in the status display after loading the channel signal.	M
13.	There is a logical error of numeric keypad.	M
14.	After opening arguments parameter storage and preservation, txt file show multi-display time in file box.	M
15.	The average sampling afterglow unlimited switching to slow scan, the waveform does not refresh.	M



16.	Waveform can not trigger properly while trimming holdoff under slow scan mode.	M
17.	The display of screen is error while factory verified software of 00.04.02.02.00 version.	M

<b>Version : 00.04.01.02.00</b>		<b>Date : 2014-07-28</b>
1.	The system may be crashed when configure the network.	M
2.	There is something wrong in storing trace of sweep signal.	M
3.	The Max value of the measure item of delay 1-2 is invalid when the statistic is on.	M
4.	There is something wrong in storing picture when observe the sweep signal.	M
5.	The delete operation cannot be performed after cancel the new catalog in function of Disk management.	M
6.	Increase the traditional Chinese show of the Menu of Measure.	E
7.	The event table exported do not has ID information.	E
8.	The data are invalid when saving the digital wave of Reference.	M
9.	The MATH wave cannot be clear by the CLEAR operation.	M
10.	The waveform disorder when changed carrier frequency in the modulation depth is greater than 100.	M
11.	The counter value is wrong while undo from AUTO.	M
12.	The low frequency suppress of trigger have errors while the vertical offset of channel is not zero.	M
13.	It can be remove all measure items when long press the Measure key.	E
14.	The offset and scale of zoom couldnot recover while undoing the auto operation.	M
15.	Do not prompt the tip while the number of the file name character reach the limited value.	M
16.	Increase the show of the board version of the system information in user mode.	E

17.	When creating arbitrary waveform input voltage: 1V, the data chaos	M
18.	Increase the function of upgrade temporary version of software in Update.	E
19.	The position information is wrong in wave storage data when stop the system and change the horizontal offset.	M

## End of Change Log History

For more information in North America, please go to [rigolna.com](http://rigolna.com), contact us directly at [techsupport@rigol.com](mailto:techsupport@rigol.com) or call us toll free at **877-4-RIGOL-1**.

### Rigol Technologies USA

10200 SW Allen Blvd, Suite C  
Beaverton, OR 97005  
877.474.4651

For more information in Europe, please go to [rigol.eu](http://rigol.eu), contact us directly at [applications-europe@rigoltech.com](mailto:applications-europe@rigoltech.com) or call us **+49 89 89 41 895-0**.

### Rigol Technologies EU GmbH

Lindberghstr. 4  
82178 Puchheim, Germany  
+49 89 89 41 895 - 0