

Keysight MSO/DSO 7000A/B Series Oscilloscopes

(Latest) Version Information

Released Date:	27 June 2015
Instrument software version:	Revision 6.20.0000
File Name:	sys7000A.jzp

Version 06.20.0000 of the oscilloscope software includes the items below. Note that version 06.16 of the lpk7000A.jzp file, version 01.50 of the gsp7000A.jzp file, and version 02.25 of the lib7000A.jzp must be used with this version of the sys7000A file.

Enhancements

This software revision includes the following new enhancements:

- Updated to support Java 8 Update 20 and later

(Earlier) Version Information

Oscilloscope Software Version 06.18.0000

Release Date: June 13, 2012

File Name: sys7000A.jzp

Version 06.18.0000 of the oscilloscope software includes the items below. Note that version 06.16 of the lpk7000A.jzp file, version 01.50 of the gsp7000A.jzp file, and version 02.25 of the lib7000A.jzp must be used with this version of the sys7000A file.

Defects Addressed

- Minor remote language improvement.

Oscilloscope Software Version 06.17.0001

Release Date: Dec 22, 2011

File Name: sys7000A.jzp

Version 06.17.0001 of the oscilloscope software includes the items below. Note that version 06.16 of the lpk7000A.jzp file, version 01.50 of the gsp7000A.jzp file, and version 02.25 of the lib7000A.jzp must be used with this version of the sys7000A file.

Defects Addressed

- Error corrected in which the X@Max and X@Min measurement readings were swapped on DSO6014/6012 scopes.

Oscilloscope Software Version 06.16.0001

Release Date: May 15, 2011

File Name: sys7000A.jzp

Version 06.16.0001 of the oscilloscope software includes the items below. Note that version 06.16 of the lpk7000A.jzp file, version 01.50 of the gsp7000A.jzp file, and version 02.25 of the lib7000A.jzp must be used with this version of the sys7000A file.

Enhancements

- Support for the Agilent N2744A T2A adapter that enables use of the following Tektronix probes
 1. P5205
 2. P5210
 3. P6701
 4. P6703
 5. P6711
 6. P6713

Oscilloscope Language (Help System) Version 06.16

Release Date: May 15, 2011

File Name: lpk7000A.jzp

Language version 06.16 is required to support oscilloscope software version 06.16.0001.

Oscilloscope Graphics Version 01.50

Release Date: April 7, 2011

File Name: gsp7000A.jzp

Graphics version 01.50 works with software version 06.15.0001 and corrects an issue with SPI framing by timeout.

Oscilloscope Software Version 06.15.0001

Release Date: Oct. 15, 2010

File Name: sys7000A.jzp

Version 06.15.0001 of the oscilloscope software includes the items below. Note that version 06.15 of the lpk7000A.jzp file, version 01.46 of the gsp7000A.jzp file, and version 02.25 of the lib7000A.jzp must be used with this version of the sys7000A file.

Enhancements

- Support for the Agilent N2744A T2A adapter that enables engineers to connect Tektronix TekProbe-BNC Level 2 probes to Agilent's Infiniium and InfiniiVision oscilloscopes.
- Support for the Agilent N2795A 1-GHz and N2796A 2-GHz single-ended active probes featuring 1-Mohm input impedance and 1-pF input capacitance for low signal loading. The probes' built-in headlight helps engineers view small components on their circuits under test. These probes are directly powered by the oscilloscope's AutoProbe interface and require no external power supply.
- Support for the Agilent N2893A; a 100-MHz, 15-A AC/DC current probe with AutoProbe interface for InfiniiVision and Infiniium oscilloscopes. The new current probe features auto degauss (demagnetization) and auto calibration to remove residual magnetism and unwanted DC offset in the probe.

Defects fixes

- Roll mode now goes down to 100 milliseconds per division.
- The automatic timeout for some longer menus has been increased.
- The de-gauss behavior is improved for the N2893A current probe.

Oscilloscope Language (Help System) Version 06.15

Release Date: Oct. 14, 2010

File Name: lpk7000A.jzp

Language version 06.15 is required to support oscilloscope software version 06.15.0000.

Oscilloscope Software Version 06.10.0000

Release Date: June 30, 2010

File Name: sys7000A.jzp

Version 06.10.0000 of the oscilloscope software includes the items below. Note that version 06.10 of the lpk7000A.jzp file, version 01.46 of the gsp7000A.jzp file, and version 02.25 of the lib7000A.jzp must be used with this version of the sys7000A file.

Enhancements

- Autoscale preference - A 'Fast Debug' preference was added to aid the quick checking of many test points for ground, DC power supplies, and clocks or other AC signals.
- Users can now specify a measurement to be made in the Zoom waveform window or the Main waveform window. This is found in the Utility -> Options -> Preferences menu.

- Users can now specify that Average and RMS measurements should be made over N-Cycles of the signal, or use the full screen, or to have the instrument automatically choose. This is controlled via the 'Settings' softkey control in the 'Meas' menu
- When the Entry Knob is slaved to holdoff, pushing the Entry Knob will set the holdoff to its minimum value.
- SPI Triggering and Decode setup and hold time have been changed to allow improved performance for faster systems.
- Now supports both CAN H-L and CAN L-H differential signal polarities.
- When in segmented mode, the time and date of the first segment's trigger is saved and displayed.
- Remote command :TRIGger:LFIFty has been added. This does the same action as pushing the trigger level knob on the 7000B, which is to set the trigger level to 50% of the trigger channel, if on screen. It applies to both the 7000A and 7000B series.

Defects fixes

- A SPI decoder error that results in double counting of some bits has been corrected.
- Instrument's Remote Front Panel functions much better with 3rd party applications using ZRLE encoding.
- Manually entered probe factors are now saved to setups and recalled with setups.
- Remote command, ACQ:POINTs?, works better.
- Remote command, *TER?, now works more robustly.
- More robust identification of N2790A probes. This should prevent occasional mis-identification of the probe during attachment.

Oscilloscope Language (Help System) Version 06.10

Release Date: June 30, 2010

File Name: lpk7000A.jzp

Language version 06.10 is required to support oscilloscope software version 06.10.0000.

Oscilloscope Library Version 02.25

Release Date: June 30, 2010

File Name: lib7000A.jzp

Library version 02.25 is required to support new features in oscilloscope software version 06.10.0000.

Oscilloscope Graphics Version 01.46

Release Date: June 30, 2010

File Name: gsp7000A.jzp

Graphics version 01.46 is required to support new features in oscilloscope software version 06.10.0000.

Oscilloscope Software Version 06.00.0004

Release Date: Mar. 9, 2010

File Name: sys7000A.jzp

Version 06.00.0004 of the oscilloscope software includes the items below. Note that version 06.03 of the lpk7000A.jzp file, version 01.43 of the gsp7000A.jzp file, and version 02.24 of the lib7000A.jzp must be used with this version of the sys7000A file.

Defects fixes

- Saving CSV files while STOPPED in average mode now store data correctly

Oscilloscope Language (Help System) Version 06.03

Release Date: Mar. 9, 2010

File Name: lpk7000A.jzp

Language version 06.03 is required to support oscilloscope software version 06.00.0004.

Enhancements

- For 7000B, the navigate menu text now better fits available space when in Korean and Japanese languages.

Oscilloscope Software Version 06.00.0003

Release Date: Mar. 2, 2010

File Name: sys7000A.jzp

Version 06.00.0003 of the oscilloscope software includes the items below. Note that version 06.02 of the lpk7000A.jzp file, version 01.43 of the gsp7000A.jzp file, and version 02.24 of the lib7000A.jzp must be used with this version of the sys7000A file.

New features for 7000B series

- Support for the following new front panel menu keys
 - Serial key
 - Analyze
 - Search
 - Navigate
 - Help
- Added support for new Push knobs functionality
 - Channel offset – set to 0V
 - Delay – Set to 0.0 seconds
 - Trigger level – set to 50% for active trigger channels
 - Channel V/Div – Set to Fine/Coarse
 - Time/Div – Set to Fine/Coarse
 - Entry Knob – Select menu item
 - Intensity knob – Set to 50%
- Dedicated Cursors Knob
- Added serial lister Search and Navigate functionality via reverse/stop/forward buttons
- Added waveform time navigation via reverse/stop/forward buttons
- Added segmented acquisition navigation via reverse/stop/forward buttons
- Support for the following new front panel action keys
 - Menu Back
 - QuickAction
 - Zoom
 - Play – Forward button
 - Stop button
 - Play – Reverse Button
 - Default Setup
- Remote Front Panel improvements
 - Improved layout for the VNC viewer for menu bar and tool bar.
 - Several knobs now have a keypad entry for numerical input.
 - Single key shortcut for all knob actions.

New Features (7000A and 7000B series)

Option FLX – Integrated FlexRay serial decode, triggering, and compliance option.

Option 553 – Integrated Mil-STD-1553 serial decode and triggering option.

New Precision Mode for measurements and math waveforms. When in this mode, the oscilloscope will extend the memory depth for these functions to 128K samples, increasing the precision of the measurements and resolution of the Math waveform, including FFT's with up to 128K resolution.

Web & VNC LAN Addressing improvements

- Now requires Java 1.6 update 13

Improved Web-based front panel

- Added direct input control alternative for knob variable adjustment
- Optimized pull down menu arrangement

Network passwords can now be both upper and lower case

Softkeys that use the entry knob are now color coded to Entry knob LED color.

When adjusting the lister row, the Lister Time column can now be referenced to the previous row in addition to the trigger position.

Can now save, or transfer > 1000 points on digital channels when analog channels are not on.

SPI decode readout now supports big endian/little endian specification.

SPI Decode performance is improved:

- Decreased the minimum time between SPI frames.
- Decreased the hold time from the last clock in the frame to chip-select false.

A number of new print factors for several serial trigger standards are now included.

Defects fixes

- Query of the lister when there is no data now works as expected.
- Saving CSV files to USB now works better at slow sweep speeds (100ms/div and slower)
- Saving CSV files to USB now works better at with large Average counts (>128)
- Saving CSV files now includes all data, including the last point
- ACQUIRE:SRATE now returns the correct values
- Now able to connect to LAN on a DHCP enabled network when USB control is not enabled
- Segmented Time Tags are improved for large time (10's of seconds) between segments
- Auto-increment of file name is improved when using USB thumb drives

Oscilloscope Library Version 02.24

Release Date: Feb 15, 2010

File Name: gsp7000A.jzp

Library version 02.24 is required to support new features in oscilloscope software version 06.00.

Oscilloscope Graphics Version 01.43

Release Date: Feb 15, 2010

File Name: gsp7000A.jzp

Graphics version 01.43 is required to support new features in oscilloscope software version 06.00.

Oscilloscope Language (Help System) Version 06.02

Release Date: Feb 15, 2010

File Name: lpk7000A.jzp

Language version 06.02 is required to support oscilloscope software version 06.00.

Oscilloscope Software Version 05.26

Release Date: September 7, 2009

File Name: sys7000A.jzp

Version 05.26 of the oscilloscope software includes the items below. Note that version 05.25 of the lpk file and version 01.26 of the gsp file must be used with this version of the sys file.

New Features

Option E00 and Option MST (N5466A) are now standard. Enabled are:

- Serial Lister.
- Measurement statistics.
- Waveform tracking cursors.

Time remaining on a trial license is now reported in the [Utility]>Options>Licenses>Show license information screen.

Oscilloscope Software Version 05.25

Release Date: June 3, 2009

File Name: sys7000A.jzp

Version 05.25 of the oscilloscope software includes the items below. Note that version 05.25 of the lpk file and version 01.26 of the gsp file must be used with this version of the sys file.

New Features

Serial Lister. Standard on new oscilloscopes. Purchase license E00 (N5466A) for existing oscilloscopes. Also requires one of the separately purchasable serial decode products.

I2S Serial Decode and Triggering. Requires license SND. Purchase option SND when ordering new oscilloscopes, or N5468A for existing oscilloscopes. Only compatible with 4 and 4+16 channel models.

FlexRay Eye Diagram Mask Testing (TP1 and TP4). Standard on new oscilloscopes with option FR2 (or N5432B). Purchase license E00 (N5466A) for existing oscilloscopes with option FRS (or N5432A). Also requires the Mask Testing option (N5455A, or LMT) on existing oscilloscopes. Mask Test option (option LMS or N5455A) included on new oscilloscopes when ordered with option FR2.

FlexRay Event Triggering. Standard on new oscilloscopes. Purchase license E00 (N5466A) for existing oscilloscopes. Also requires the FlexRay decode and trigger option (N5432B, FR2, or predecessors).

FlexRay decode and triggering option FR2 (or N5432B) replaces option FRS (or N5432A). The replacement FlexRay option FR2 (or N5432B) includes Mask Testing (option LMT or N5455A) and Segmented Memory (option SGM or N5454A) as standard.

Defect Fixes

CAN data triggering can now be specified in binary.

LIN data triggering can now be specified in hex or binary.

FlexRay setup now supports the FIBEX 3.0 file format.

Display can now be frozen (Freeze Display) without stopping running acquisitions.

Mask Testing can now be configured such that measurements are only made when a mask violation is detected.

Counter measurement will now display eight digits of resolution when English is the selected user interface language. For other languages, more digits will be displayed than in the previous release, but not the full eight.

TV Trigger now supports 1080p/50 and 1080p/60.

Labels saved with invert on will now be readable.

Korean rise time translation has been corrected.

Oscilloscope Graphics Version 01.26

Release Date: June 9, 2009

File Name: gsp7000A.jzp

Graphics version 01.26 is required to support new features in oscilloscope software version 05.25.

Oscilloscope Language (Help System) Version 05.25

Release Date: June 5, 2009

File Name: lpk7000A.jzp

Language version 05.25 is required to support oscilloscope software version 05.25.

Oscilloscope Software Version 05.20

Release Date: November 20, 2008

File Name: sys7000A.jzp

Version 05.20 of the oscilloscope software includes the items below. Note that version 05.20 of the lpk file must be used with this version of the sys file.

New Features

Mask Testing (Limit) option. Requires license LMT. Purchase option LMT when ordering new oscilloscopes, or N5455A for existing oscilloscopes.

Measurement Statistics and Waveform Tracking Cursors option. Standard on new oscilloscopes. Purchase license MST (N5466A) for existing oscilloscopes.

Defect Fixes

Saving all segments now possible.

Selection of continuous baud rates now possible for CAN, LIN, and RS-232.

RS-232 data trigger selection in ASCII now possible.

Label limitation of 6 characters increased to 10 characters.

Segmented acquisition progress now visible in multiple menus.

Coloring of marker and measurement readouts now matches channel colors.

:SAV:WAV <filename> no longer returns an illegal operation error if the front panel setup information box is checked.

Issue corrected when decoding I2C with segmented memory on.

XY mode combined with High Resolution mode no longer causes unexpected noise.

Corrected an FFT scaling issue.

Scope will now boot when both a USB drive and a printer are connected.

Corrected an issue where :MEAS:DEF DELAY,-1,-1 was incorrectly returning settings conflict error.

Pulse width trigger settings now recalled correctly on power up.

:WAV:SEGM:COUNT? Now returns the number of acquired segments.

Issue corrected when triggering on I2C Write-10.

Oscilloscope Language (Help System) Version 5.2

Release Date: November 20, 2008

File Name: lpk7000A.jzp

Language version 5.2 is required to support oscilloscope software version 05.20.

Oscilloscope Library Version 2.10

Release Date: November 20, 2008

File Name: lib7000A.jzp

Library version 2.10 is required to support oscilloscope software version 05.20.

Oscilloscope Graphics Version 1.21

Release Date: November 20, 2008

File Name: gsp7000A.jzp

Graphics version 1.21 is required to support oscilloscope software version 05.20.

Oscilloscope Software Version 05.15

Release Date: July 18, 2008

File Name: sys7000A.jzp

Version 05.15 of the oscilloscope software includes the items below. Note that version 05.15 of the lpk file must be used with this version of the sys file.

Additions

Graphical user interface localized for Simplified Chinese, Traditional Chinese, Japanese, and Korean.

Ability to use channel 3 and channel 4 when defining a math function, as well as the addition of a '+' operator. The same source can now be used as both operands of an arithmetic operation.

Addition of Blackman Harris FFT window selection.

Ability to selectively delete measurements from the screen.

Timestamp and Agilent logo on saved or printed bitmaps.

Enhancements to the ALB file format for additional integration with Agilent logic analyzer software.

Ability to lockout 50 ohm impedance selection using the remote interface.

Ratio measurement.

Landscape printing option.

Support for memory options on the 5000 series.

Modifications

Math graphical user interface changes to allow for the channel 3 and channel 4 and other new math features noted above.

Printing of setup information now supported on additional printers.

Corrected issue with autoincrement setting not being remembered.

Oscilloscope Help System Version 5.15

Release Date: July 18, 2008

File Name: lpk7000A.jzp

Version 5.15 of the oscilloscope built-in help software includes the items below. Note that version 05.15 of the sys file must be used with this version of the lpk7000A.jzp file.

Additions

Localized text for Simplified Chinese, Traditional Chinese, Japanese, and Korean versions of the graphical user interface.

Modifications

Modifications to some portions of the help text for consistency with the localized graphical user interface.

Oscilloscope Software Version 05.11

Release Date: April 22, 2008

File Name: sys7000A.jzp

Version 05.11 of the oscilloscope software includes the following:

Modifications

Corrects an issue with saving ALB data when both digital channel groups are turned on.

Oscilloscope Software Version 05.10

Release Date: April 3, 2008

File Name: sys7000A.jzp

Version 05.10 of the oscilloscope software includes the following:

Additions

Segmented Memory option. Requires license SGM. Purchase option SGM when ordering new oscilloscopes, or N5454A for existing oscilloscopes.

Ability to set CAN ID in hex for triggering.

Quick Print option in the Save/Recall menu to allow the Quick Print or Print key to be used for saving files.

Modifications

Enhancements to the serial decode formatting – use of angle brackets to denote packets, idle line shown in blue, limiting text to area within a packet

AutoScale will now leave measurements on if they were on prior to the AutoScale button being pressed.

After saving an image with the Press to Save softkey, the Save/Recall menu will be shown, allowing for repeated saves with a single key press.

Oscilloscope Library Version 2.00

Release Date: April 3, 2008

File Name: lib7000A.jzp

Library version 2.00 is required to support oscilloscope software version 05.10.

Oscilloscope Graphics Version 1.17

Release Date: January 22, 2008

File Name: gsp7000A.jzp

Graphics version 1.17 is required to support new features in oscilloscope software version 05.10.

Oscilloscope Help System Version 5.1

Release Date: April 2, 2008

File Name: lpk7000A.jzp

Version 5.1 of the oscilloscope built-in help software includes the following:

Modification

Corrected line overrun errors in several messages.

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Heading 3 (if necessary)

Normal

- Item.
- Item.
- Item.

Heading 2 (Enhancements)

Normal

Heading 3 (if necessary)

Normal

- Item.
- Item.
- Item.

Heading 2 (Bug Fixes)

Normal

Heading 3 (if necessary)

Normal

- Item.
- Item.
- Item.

(First) Version Information

Released Date:	4 June 2014
Requirements category (e.g., operating system):	Microsoft Windows Vista, Microsoft Windows 7
Requirements category (e.g., instrument software version):	5.70 (80000 Series), 1.41 (90000 Series, 90000 X-Series, 90000 Q-Series, Z-Series), 2.00 (9000 Series, S-Series)
Requirements category (other):	1.80
File Name:	SetupInfUserDefApp02000000.exe

Initial Release

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