



## **Agilent U7232A/B DisplayPort Electrical Performance Validation & Compliance Software Release Notes**

---

**Agilent U7232B Software Version 03.31.00**

**Released Date: 6 August 2013**

**Minimum Infiniium Oscilloscope Baseline Version:**

**Windows 7:**

**4.50 (9000, 90000, X90000 series)**

**Windows XP:**

**4.20.005 (9000, 90000, X90000 series)**

**File Name: SetupInfDisplayPort03310000.exe**

Additions:

- Added MyDP capability.
- Added support for MSOX90k series oscilloscopes.

**Agilent U7232B Software Version 03.30.00**

**Released Date: 17 May 2013**

**Minimum Infiniium Oscilloscope Baseline Version:**

**Windows 7:**

**4.50 (9000, 90000, X90000 series)**

**Windows XP:**

**4.20.005 (9000, 90000, X90000 series)**

**File Name: SetupInfDisplayPort03300000.exe**

Additions:

- Added Switch Matrix support.
- Added unofficial MyDP capability.

Modifications:

- Updated DP Dual Mode test to meet official specifications.
- AUX channel tests now support single-ended connections.

**Agilent U7232B Software Version 03.21.00**



## Agilent Technologies

**Released Date: 23 November 2012**

**Minimum Infiniium Oscilloscope Baseline Version: 3.59.00 (90000 and X90000 series)**

**File Name: SetupInfDisplayPort03210000.exe**

### Additions:

- Replaced CTS 1.2 with CTS 1.2b. CTS 1.2 is removed from application.
- Added Peak to Peak Voltage Tests.
- Added HBR2 Eye Diagram test without cable.
- Added eDP 1.3 tests.
- Added Dual Mode Displayport tests.
- Support PostCursor2 in preferred settings.
- Added support for custom EDID file for both W2642A and Unigraf DPR100 AUX controller.

### Modifications:

- Removed Link Layer Phy Change Tests.
- PostCursor2 Tests are now informative.
- Updated CTLE values.

### Notes:

- Project saved from previous versions can only be loaded as Read-Only in version 3.21.
- Addition of PostCursor2 selections to Preferred Settings could impact config items "PreferredLevelPreEmphasis" and "PreferredNoCableLevelPreEmphasis" in Remote Programming Interface.

**Agilent U7232B Software Version 03.11.00**

**Released Date: 18 November 2011**

**Minimum Infiniium Oscilloscope Baseline Version: 5.71 (80000 series), 3.03.02 (90000), 3.03.02 (X90000 series)**

**File Name: SetupInfDisplayPort03110000.exe**



Modifications:

- Fixed application crash when performing sink test.

Additions:

- Added automation support using Unigraf Reference Device.

**Agilent U7232B Software Version 03.10.01**

**Released Date: 5 October 2011**

**Minimum Infiniium Oscilloscope Baseline Version: 5.71 (80000 series), 3.03.02 (90000), 3.03.02 (X90000 series)**

**File Name: SetupInfDisplayPort03100001.exe**

Additions:

- Added automation support for DP 1.2 devices.
- Added support for baseline running on Windows 7.

Modifications:

- Corrected error in mask generation for HBR2 eye diagram test.
- Renamed CPAT2600 to HBR2CPAT.

**Agilent U7232B Software Version 03.00**

**Released Date: 27 April 2011**

**Minimum Infiniium Oscilloscope Baseline Version: 5.71 (80000 series), 3.03.02 (90000), 3.03.02 (X90000 series)**



## Agilent Technologies

**File Name: SetupInfDisplayPort0300.exe**

Additions:

- Support DisplayPort CTS 1.2.
- Added compliance tests for HBR2.
- Added GUI for W2642A DisplayPort test controller.
- Added De-embedding feature for Agilent and Wilder fixtures.
- Added automated test for AUX channel test using W2642A.

Modifications:

- Modified GUI to simplify test configuration.

**Agilent U7232A Software Version 02.11**

**Released Date: 29 October 2010**

**Minimum Infiniium Oscilloscope Baseline Version: 5.71 (80000 series), 2.10 (90000), 3.00 (X90000 series)**

**File Name: SetupInfDisplayPort0211.exe**

Additions:

- Added actual AUX sensitivity tests to cover test ID 8.2 of Displayport Compliance Specification 1.1a.

Modifications:

- Renamed AUX channel eye sensitivity calibration test (source) to AUX channel eye sensitivity calibration test(reference sink).
- Renamed AUX channel eye sensitivity calibration test(sink) to AUX channel eye sensitivity calibration test(reference source).
- Improved AUX channel clock recovery method for noisy AUX signal.
- Changed connection diagrams for AUX channel eye sensitivity calibration tests.
- Applied 50Mhz low pass filter for Vd signals before measuring Inrush Current and Power Test.
- Fixed Non-Transition Voltage Range Measurement Test to report results in ratio instead of range.

**Agilent U7232A Software Version 02.10**

**Released Date: 13 October 2010**

**Minimum Infiniium Oscilloscope Baseline Version: 5.71 (80000 series), 2.10 (90000), 3.00 (X90000 series)**



## Agilent Technologies

**File Name: SetupInfDisplayPort0210.exe**

### Additions:

- Added AUX test suites.
- Added Inrush tests.
- Added De-Embedding feature for oscilloscope with InfiniiSim license enabled.
- Supports the Infiniium X90000 Series High Performance Oscilloscope.
- Added Second-Order Butterworth filter option for SSC tests. Second-Order Butterworth filter is now default filter for SSC tests.

### Modifications:

- AC-Common Mode Test is now informative.
- Non-Transition Voltage Range Test is now normative.
- Changed test limit for Non-ISI Jitter Test to 0.21 UI from 0.17 UI.
- Changed Intra-pair Skew Test Methodology to use D10.2 transmit pattern instead of PRBS 7 pattern.
- Fixed the issue of Pre-Emphasis Test results being copied from non-SSC to SSC trials when running automation with SSC option set to "Both".
- Resolution of screen shot image is reduced to 8 bit to reduce memory usage while loading report.

**Agilent U7232A Software Version 02.01**  
**Released Date: 10 April 2009**



## Agilent Technologies

**Minimum Infiniium Oscilloscope Baseline Version: 5.60 (80000 series), 1.31 (90000 series)**

**File Name: SetupInfDisplayPort0201.exe**

### Modifications:

- Fixed the issue of project loading as read-only file.
- Improved the intra-pair skew measurement to cater the rising and falling mismatch.

### **Agilent U7232A Software Version 02.00**

**Released Date: 15 December 2008**

**Minimum Infiniium Oscilloscope Baseline Version: 5.60 (80000 series), 1.31 (90000 series)**

**File Name: SetupInfDisplayPort0200.exe**

### Additions

- Added support for fully automated tests through Agilent W2642A DisplayPort Test Controller.
- Added Test 3.17 (HF Variation Test) and 3.8 (Overshoot Test).
- Removed Test 3.9 (Frequency Accuracy Test).
- Added Skew Calibration Page in the Setup Wizard.

### Modifications:

- Changed the Test Methodology to support DisplayPort Compliance Test Specification 1.1.
- Changed the Test Matrix as specified in DisplayPort Compliance Test Specification 1.1.
- Test 3.14 is now named as Main Link Frequency Test.
- Restructure the User Interface. Reduced the number of pages in the Setup Wizard.
- High bit rate Clock Recovery Bandwidth for D10.2 is now 20 Mhz.
- High bit rate Clock Recovery Bandwidth for PRBS 7 is now 10 Mhz.
- Low bit rate Clock Recovery Bandwidth for D10.2 is now 10.8 Mhz.
- Low bit rate Clock Recovery Bandwidth for PRBS 7 is now 5.4 Mhz.

### Known Issues:

- Application slows down when the project file is too huge.



## Agilent Technologies

- Not all devices are capable of supporting the Fully Automated Features. Supporting devices are subjected to test sequence referred in Appendix A:DisplayPort Source Automated Test with W2642A DPTC.
- Remote RPI is not backward compatible.
- Projects from version 1.60 can only be loaded as Read-Only.

### **Agilent U7232A Software Version 01.60**

**Released Date: 11 January 2008**

**Minimum Infiniium Oscilloscope Baseline Version: 5.40 (80000 series), 1.00 (90000 series)**

**File Name: SetupInfDisplayPort0160.exe**

#### Additions

- Supports the Infiniium 90000 Series High Performance Oscilloscope.
- Added option to support the Eye Diagram test CTS 1.0.
- Added an expert mode to loosen pre-run checking and speed up the DisplayPort testing.

#### Modifications:

- Modified the Long term stability test methodology. Long term stability test is now a non-SSC test.
- DisplayPort 1.6 no longer supports non-compliance pre-Emphasis and level conditions for all the tests.
- Fixed the issue of the application crashing when comments field contains multiple lines.
- Changed the test matrix for compliance condition only to the CTS 1.1 standard.
- Fine tuned the Cable and sink tests.

### **Agilent U7232A Software Version 01.50**



## Agilent Technologies

**Released Date: 5 December 2007**

**Minimum Infiniium Oscilloscope Baseline Version: 05.30.00**

**File Name: SetupInfDisplayPort0150.exe**

### Additions

- Supports Test Plan capability, which enables semi-automation of the test run. User can make multiple selections of the DUT configuration at any one time. DisplayPort test will automatically go through these configurations and prompts the user to change the configurations of the actual DUT when required.
- Added Link Layer test which is subdivided to three sub tests:
  - Bit Rate – A test to verify if the DUT can change its bit rate configuration from the lowest to the highest setting.
  - Level – A test to verify if the DUT can change its level setting from the lowest to the highest setting.
  - PreEmphasis – A test to verify if the DUT can change its pre-emphasis setting from the lowest to the highest setting.
- Improved algorithm for the PRBS pattern checker.
- The UI changes when the Sink/Cable test is selected. Under this selection, user can only configure the data rate of the DUT. Other DUT configurations are disabled.

### **Agilent U7232A Software Version 01.00**

**Released Date: 20 August 2007**

**Minimum Infiniium Oscilloscope Baseline Version: 05.30.00**

**File Name: SetupInfDisplayPortTest0100.exe**

### Additions

- Initial release for DisplayPort 1.00
- Supports DisplayPort 1.1 Compliance Specification.