

Keysight N5510 Phase noise test system software

Software A.1.00.06.08 released 15-March-2023

Software A.1.00.06.06 released 26-October-2022

Software A.1.0.5.12 released 8-November-2021

Software A.1.0.5.2 released 7-May-2021

Software A.1.0.3.8 released 3-February-2020

Software A.1.0.2.3 released 09-September-2019

Software Version A.1.00.06.08

Released Date:	15 March 2023
Requirements category (e.g., operating system)	Microsoft Windows Embedded Standard, 64 bit
Requirements category (e.g., instrument software version)	Core™ i7-4700EQ quad-core, 2.4 GHz processor Windows 10 Enterprise (WES 10) 64-bit Operating System
Requirements category (other):	Keysight IO libraries 18.1 Keysight Physics: 26.91.14 Keysight license manager: 5.5.1.81
File Name:	N5510_Full_Installer_1.00.06.08.exe

Software A.1.0.06.08 Enhancements

Model	Description
N5511A	<ul style="list-style-type: none">Updated License Manager Software

Software Version A.1.00.06.06

Released Date:	26 October 2022
Requirements category (e.g., operating system)	Microsoft Windows Embedded Standard, 64 bit
Requirements category (e.g., instrument software version)	CoreTM i7-4700EQ quad-core, 2.4 GHz processor Windows 10 Enterprise (WES 10) 64-bit Operating System
Requirements category (other):	Keysight IO libraries 18.1 Keysight Physics: 26.91.7 Keysight license manager: 5.3.1.7120
File Name:	N5510_Full_Installer_1.00.06.06.exe

Software A.1.0.06.06 Enhancements

Model	Description
N5511A	<ul style="list-style-type: none"> Rename "Estimated Noise Floor" to "Uncorrelated System Noise" Show "Estimate Noise Floor" checkbox as default for "Type and Range" tab. Changed to "Show" by default. Changed the default wait time of Phase Shifter for dual to 100ms Added N5511A request for Marker access via SCPI. The following commands were added. CALCulate:MARKer:DISPlay OFF ON 0 1 CALCulate:MARKer:CLEar command only CALCulate:MARKer:ADD command only CALCulate:MARKer:COUNt? query only CALCulate:MARKer[1] 2 3 4 5 6 7 8 9:DELeTe command only CALCulate:MARKer[1] 2 3 4 5 6 7 8 9:X <frequency> CALCulate:MARKer[1] 2 3 4 5 6 7 8 9:Y? <amplitude> query only New Data Converter FPGA Add channel sync alignment

Software A.1.0.06.06 Issues Resolved

Model	Description
N5511A	<ul style="list-style-type: none"> Fixed an issue that prevented values from updating when the Up/Down key was pressed Fixed phase detector constant was wrong in residual +/- DC peak CAL with phase shifter, reading the voltmeter values Fixed the cross-correlation counts for that segment Fixed a crash issue when multiple lines of comments are input in Asset Manager

- Fixed Segment data cutout issue with E5500 to get the resolution for each segment from the asset

Software Version A.1.0.5.12

Released Date:	8 November 2021
Requirements category (e.g., operating system)	Microsoft Windows Embedded Standard, 64 bit
Requirements category (e.g., instrument software version)	CoreTM i7-4700EQ quad-core, 2.4 GHz processor Windows 10 Enterprise (WES 10) 64-bit Operating System
Requirements category (other):	Keysight IO libraries 18.1 Keysight Physics: 26.91.7 Keysight license manager: 5.3.1.7120
File Name:	N5510_Full_Installer_1.0.5.12.exe

Software A.1.0.5.12 Enhancements

Model	Description
N5511A	<ul style="list-style-type: none"> • New color default • Added the calculated value of Jitter as Trace Integration • Added the SCPI command for "Screenshot" • Added LNA gain value in the Parameter Summary

Software A.1.0.5.12 Issues Resolved

Model	Description
N5511A	<ul style="list-style-type: none"> • Improved the protection against power termination • Fixed Channel 2 PLL suppression data is blank • Fixed DISP:MEAS:TIME SCPI command doesn't work • Fixed close-in phase noise issue based on sequence of measurements and VCO tune constant • Fixed PLL suppression compensation issue • Fixed progress bar

Software Version A.1.0.5.2

Released Date:	7 May 2021
Requirements category (e.g., operating system)	Microsoft Windows Embedded Standard, 64 bit
Requirements category (e.g., instrument software version)	CoreTM i7-4700EQ quad-core, 2.4 GHz processor Windows 10 Enterprise (WES 10) 64-bit Operating System
Requirements category (other):	Keysight IO libraries 18.1 Keysight Physics: 26.91.7 Keysight license manager: 5.3.1.7120
File Name:	N5510_Full_Installer_1.0.5.2.exe

Software A.1.0.5.2 Enhancements

Model	Description
N5511A	<ul style="list-style-type: none"> Improved the Show Hardware Information by formatting table
N5511A	<ul style="list-style-type: none"> Added SCPI commands for Fast Mode Resolution Bandwidth SENSe:RANGe:FFT:RBWPercent SENSe:RANGe:FFT:OVERlap SENSe:RANGe:FFT:WINDow Add Display option to show the number of cross correlations per segment on the displayed plot Add option to blank out measurement parameters for increased Security Level – Only displaying Center Frequency Add Save Menu for Screenshot of Plot
	<ul style="list-style-type: none"> Add Allow User-Defined Delay before measurement starts

Software A.1.0.5.2 Issues Resolved

Model	Description

N5511A	<ul style="list-style-type: none"> • Fixed the 2.x dB drop at 40 MHz offset frequency when number of cross correlations for segment 15 goes above 2147483647 • Fixed the Progress Bar not cleared properly at start of new measurement intermittently • Fix the Double clicking of PNX file didn't load the data • Fix Flexible Mode First Segment Alignment problem – The closest-in offset would show a discontinuity in Flexible Mode • Fix the Custom Segment Tables Results problem – Select sets of segment start/stop table would causes the trace to display unexpected behavior of the noise floor • Fix Detected Spur Value issue when trace smoothing is applied
N5511A	<ul style="list-style-type: none"> • Add the Missing SCPI commands for Channel#2 <p>SOURce:REFerence1:POWer[:LEVel AMPLitude]</p> <p>SOURce:REF1:POWer[:LEVel AMPLitude]</p> <p>SOURce:REFerence2:POWer[:LEVel AMPLitude]</p> <p>SOURce:REF2:POWer[:LEVel AMPLitude]</p> <p>SYSTem:ASSet:COUNter[1]]2 <asset_name></p> <p>SYSTem:ASSet:SLAVe:SOURce[1]]2 <asset_name></p>

Software Version A.1.0.3.8

Released Date:	3 February 2020
Requirements category (e.g., operating system)	Microsoft Windows Embedded Standard, 64 bit
Requirements category (e.g., instrument software version)	CoreTM i7-4700EQ quad-core, 2.4 GHz processor Windows 10 Enterprise (WES 10) 64-bit Operating System
Requirements category (other):	Keysight IO libraries 18.1
File Name:	N5510_Full_Installer_1.0.3.8.exe
Released Date:	3 February 2020

Software A.1.0.3.8 Enhancements

Model	Description
N5511A	<ul style="list-style-type: none"> • Added Measurement time estimate indication • Added Measurement Status indication
N5511A	<ul style="list-style-type: none"> • gray out UI feature parameters that are not applicable to current measurement
N5511A	<ul style="list-style-type: none"> • Added Self-test functionality
N5511A	<ul style="list-style-type: none"> • Add Support for 26.5 and 3 GHz version of the phase detector modules

Software A.1.0.3.8 Issues Resolved

Model	Description
N5511A	View spur function OFF/ON – did not redraw graph correctly. The redrawing of the graph with view spur function is updated in this release.

(Initial) Software Version A.1.0.2.3

Released Date:	09 September 2019
Requirements category (e.g., operating system)	Microsoft Windows Embedded Standard, 64 bit
Requirements category (e.g., instrument software version)	Core™ i7-4700EQ quad-core, 2.4 GHz processor Windows 10 Enterprise (WES 10) 64-bit Operating System
Requirements category (other):	Keysight IO libraries 18.1
File Name:	N5510_Full_Installer_1.0.2.3.exe
Released Date:	09 September 2019

Initial Release for N5511A, Keysight Phase noise test system

