

## General Caution

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Please use a USB Memory Stick for firmware updates.

If there is a firmware update question, please contact Anritsu service support at <https://techsupport.anritsu.com>, and then click on "Technical Support" for further information.

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### What will the customer see in this release?

Product : S331L, S820E

Application Package : V4.00

Release Date : Release August, 2020

Information below may not apply to every model/option in Product list

#### \*\*\* NEW FEATURES \*\*\*

-> Software - S331L

[SNC-961] The following cables have been added per customer requests: RLCX-SL 158R; RLCX-SL 114R; RLCX-SL 078R; RLCX-SL012R; RLCX-SL038R; RLCX-SL014R; RLCX-SL012S; RLCX-SL038S; RLCX-SL014S; RLCX-SL012R FPR

-> Software - S820E

[SNC-961] The following cables have been added per customer requests: RLCX-SL 158R; RLCX-SL 114R; RLCX-SL 078R; RLCX-SL012R; RLCX-SL038R; RLCX-SL014R; RLCX-SL012S; RLCX-SL038S; RLCX-SL014S; RLCX-SL012R FPR

#### \*\*\* BUG FIXES \*\*\*

-> Software - S331L

[SNC-956] Resolved an issue where some files could accidentally get permanently deleted if a failure occurred during a file copy/move operation from the internal memory to an external USB memory device.

-> Software - S820E

[SNC-956] Resolved an issue where some files could accidentally get permanently deleted if a failure occurred during a file copy/move operation from the internal memory to an external USB memory device.

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What will the customer see in this release?

Product : S331L, S820E

Application Package : V2.90

Release Date : Quarterly Release beginning October 2017

Information below may not apply to every model/option in Product list

\*\*\* NEW FEATURES \*\*\*

-> Software

[SNC-831] Restores support for the G0603B VIP Probe.

\*\*\* BUG FIXES \*\*\*

-> Software

[SNC-845] Fixes an issue where the delta marker annotation was missing from the Marker Table.

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What will the customer see in this release?

Product : S331L, S820E

Application Package: V2.80

Release Date : Quarterly Release beginning July 2017

Information below may not apply to every model/option in Product list

\*\*\* NEW FEATURES \*\*\*

-> Software

[SNC-814] Enhanced DTF Return Loss Measurements by using the center frequency of the sweep, instead of the stop frequency, to determine the Cable Loss value from the Cable List selection.

\*\*\* BUG FIXES \*\*\*

-> Software

[SNC-783] Fixed an issue where the status bar at the bottom of the Save dialog would be clipped when the 'Filetype' button is activated.

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What will the customer see in this release?

Product : S331L, S820E

Application Package: V2.70

Release Date : Quarterly Release beginning April 2017

Information below may not apply to every model/option in Product list

\*\*\* BUG FIXES \*\*\*

-> Software - S331P

[SNC-812] Fixes issue where the Save/Recall dialog keypad would change to Korean characters when the language setting was changed to Korean. Desired behavior is to have the

keypad characters remain in English when the language is changed to Korean.

-> Software - S331L

[SNC-486] Resolved an issue when using the 'Previous Step' function in the calibration dialog that prevented the calibration process from being restarted.

[SNC-812] Fixes issue where the Save/Recall dialog keypad would change to Korean characters when the language setting was changed to Korean. Desired behavior is to have the keypad characters remain in English when the language is changed to Korean.

-> Software - S820E

[SNC-486] Resolved an issue when using the 'Previous Step' function in the calibration dialog that prevented the calibration process from being restarted.

[SNC-812] Fixes issue where the Save/Recall dialog keypad would change to Korean characters when the language setting was changed to Korean. Desired behavior is to have the keypad characters remain in English when the language is changed to Korean.

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What will the customer see in this release?

Product : S331L, S820E

Application Package: V2.60

Release Date : Quarterly Release beginning January 2016

\*\*\* BUG FIXES \*\*\*

-> Software - S331L

[SNC-715] Fixed an issue that caused an application error when deleting a custom file from the Reset menu or when performing a Master Reset.

[SNC-764] Fixed an issue where the message "An Unexpected Error has occurred...." was displayed upon boot-up when the instrument was previously shut down with the Start and Stop frequencies equal and an enabled marker set outside this Start/Stop frequency range."

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What will the customer see in this release?

Product : S331L

Application Package: V2.50

Release Date : Quarterly Release beginning October 2016

\*\*\* IMPROVEMENTS \*\*\*

-> Updates are for internal production use only.

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What will the customer see in this release?

Product : S331L

Application Package: V2.40

Release Date : Quarterly Release beginning July 2016

\*\*\* NEW FEATURES \*\*\*

-> Software - S331L

[SNC-506] Added support for new G0306B Visual Inspection Probe (VIP), including the new 65 deg tip.

\*\*\* BUG FIXES \*\*\*

-> Software - S331L

[SNC-486] Resolved an issue when using the 'Previous Step' function in the calibration dialog that prevented the calibration process from being restarted.

[SNC-510] Addressed an issue in the VIP app that caused the instrument to use an older captured image when the Analyze button is selected directly from Live mode. The Analyze button should prompt the user to Capture the image but in some cases it bypassed the prompt and used an older image.

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What will the customer see in this release?

Product : S331L

Application Package: V2.30

Release Date : April 28, 2016

\*\*\* ENHANCEMENTS \*\*\*

General [2]

- Expanded capabilities to allow easyTest to enable more complex test scripts to be executed. easyTest scripts will also be able to save files to a single directory allowing for a simplified process for retrieving test results. ECAA-9.  
Refer to Sky Bridge product release notes for individual product/option support.
- Updated the S331L instrument installed Users Guide and FAQ files to Revision L.

#### Cable and Antenna Analyzer [1]

- Added the ability to select IFBW of 2kHz with SCPI command ":SENSe:SWEp:IFBW".

#### \*\*\* BUG FIXES \*\*\*

##### General [2]

- Fixed an issue by correcting the SCPI syntax/comments to match the printed documentation.
- Fixed problem where changing the propagation velocity and cable loss would change the cable name, even though the new value is the same value as the current one. #23654

##### Cable and Antenna Analyzer [6]

- Fixed an intermittent issue that would cause trace math to stop working after a copy trace to memory operation. #23271
- Fixed an issue that prevented measurement from saving under the following unique conditions: trace 1 set to Return Loss and trace 2 set to DTF Return Loss and Marker 1 was set before Marker 2 on trace 2. #23625
- Fixed an issue where the ":CALCulate:LIMit:TYPE" SCPI command was setting the upper limit active when lower was specified (and vice versa). #23276
- Fixed an issue where the delta marker readout could show the imaginary readout to be 0.
- Fixed an issue where the DTF Aid Stop Distance header for the parameter entry was showing as Start Distance. #23743
- Fixed an issue with the instrument attempting to respond to an illegal SCPI command[:SENSe]:CORRection:COLLect:MEDIum for S331L
- Fixed an issue with the SCPI command "[:SENSe]:CORRection:COLLect:INFORMatIon:STATus?" that did not return the correct value for InstaCal.

##### Visual Inspection Probe [1]

- Fixed an issue where the VIP analysis overlay was missing when Auto-Analysis was enabled. #23545

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#### What will the customer see in this release?

Product : S331L

Application Package: V1.18

Release Date : January 15, 2016

#### \*\*\* NEW FEATURES \*\*\*

General [1]

- Added "AutoAdvance" feature to easyTest©.

\*\*\* MISCELLANEOUS \*\*\*

General [1]

- This command applies to S820E and not S331L(removed from S331L SCPI manual): [:SENSe]:CORRection:CKIT:USER#:WGUiD:SSLT:SHORT#

\*\*\* ENHANCEMENTS \*\*\*

General [2]

- Improved the marker update efficiency.
- Updated Marker Table formatting for improved readability.

Cable and Antenna Analyzer [2]

- Added SCPI command ":CALCulate:LIMit:TYPE 0|1" for setting active limit type.
- Adding SCPI command "[:SENSe]:CORRection:COLLect:STATus? INITialize|OPEN|SHORT|LOAD|SAVE|ALL|THRU|ZERO" to query the cal measurement status for S331L.

\*\*\* BUG FIXES \*\*\*

General [7]

- Fixed an intermittent issue where an S331L would not boot when the power button was pressed after shutting down with the external supply connected and then disconnecting the supply.
- Fixed an issue where creating a menu shortcut also activated the shortcut. #23283
- Fixed an issue where recalling a setup and continuously clicking on the menu shortcut to recall another setup while the first setup had not completed caused an application error. #23223
- Fixed an issue where some USB-to-Ethernet adapters would fail to be recognized.

- Fixed an issue where the GUI looked like it was freezing when changing the data points via SCPI command after calibration. #23218
- Fixed an issue where the USB stick transfer rate was slower than normal.
- Fixed an issue with the application icon of the menu shortcut or mode selector being displayed partially.

#### High Accuracy Power Meter [1]

- Fixed an issue with power sensors not being recognized after bootup in VIP mode and then switching to HiPM mode. #23305

#### Cable and Antenna Analyzer [3]

- Fixed an issue where changing to VSWR after recalling a setup with marker outside of display range would cause an application error. #23243
- Fixed an issue with sweep being slow when booting up in VIP or HiPM applications and then switching to CAA, or Classic CAA mode. #13789
- Fixed an issue with the SCPI command "[:SENSe]:CORRection:COLLect:INFORMation:STATus?" that did not return the correct value for InstaCal.

#### Power Meter [1]

- Fixed an issue with power sensors not being recognized after bootup in VIP mode and then switching to Power Meter mode. #23305

#### Visual Inspection Probe [3]

- Fixed an issue where reconnecting a probe and then using quick snapshot in live mode resulted in the unit hanging up for extended periods.
- Fixed an issue where the VIP probe's live update would hang intermittently.
- Fixed an issue with VIP Analysis incorrectly passing defects in the "SM PC > 45" and "SM APC" profiles.

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S331L Application Package: V1.17 (9/30/2015)

#### \*\*\* NEW FEATURES \*\*\*

#### Visual Inspection Probe [1]

- Added new VIP Mode to support measurements using external USB optical Video Inspection Probe.

\*\*\* ENHANCEMENTS \*\*\*

General [1]

- Updated the instrument installed Users Guide and FAQ files to Revision J.

High Accuracy Power Meter [2]

- Improved measurement stability for the PSN50 and MA24016A external sensors.
- Improved the external behavior of the PSN50 and MA24106A external sensors.

\*\*\* BUG FIXES \*\*\*

General [1]

- Fixed an issue where the user setting for active marker would change while using the rotary knob. #23055

High Accuracy Power Meter [3]

- Fixed an issue where selecting Zero in the status menu did not open the Power Meter Calibration menu.
- Fixed an issue where the sweep slowed down when switching from HiPM mode to CAA mode with Transmission Ext. Sensor #22825
- Fixed an issue with the measurement rate changing when you disconnect and then reconnect an external MA24106A sensor.

Cable and Antenna Analyzer [2]

- Fixed an issue where markers behaved erratically after a mode switch caused by a Recall setup. #23055
- Fixed an issue with marker value inconsistency in Hold mode. #23068

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S331L Application Package: V1.16 (8/31/2015)

General Features













- Added extra messaging to instruct the user when a file is not saved correctly.
- Added extra messaging for the user in case the application was taking too long to boot.
- Added system time readout under UTC time readout in GPS Information screen
- Resolved an issue with case sensitive file extensions preventing files from being recalled.
- Resolved an issue which prevented a shortcut from being used twice in a row.
- Resolved an issue when an empty shortcut slot was selected to be moved.
- Resolved an issue with shortcuts of setup files not being recalled if they had "." in their name.
- Resolved an issue causing easyTest to generate multiple folders when Saving files from within one ett file.
- Updated the Save dialog so that the folder location is set when a user presses on filename or filetype after setting a location, even without pressing enter.
- Updated the save dialog file name entry to automatically remove empty characters at the start of the name.
- Updated font controls for the File dialogs to display Korean characters for user file names.

#### Cable & Antenna Analyzer Application

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- Resolved an issue that was causing the DTF cable name to be displayed incorrectly when an invalid cable was being recalled.
- Resolved an issue with propagation velocity not being set correctly when recalling the cable "None" from the cable list.
- Resolved an issue with DTF calculations that was causing the DTF processing to take longer than required under certain conditions.
- Resolved an issue that was causing easyTest to not fully abort when an ett test was running off a USB drive and the drive was un-plugged before the test was completed.

#### High Accuracy Power Meter Application

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- No changes

#### Power Meter Applications

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- Added a High Power Warning message that is displayed for the user when entering the Power Meter application.
- Resolved an issue with the max scale setting for the MA24105A sensor.









General Features

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- Initial Release

Cable & Antenna Analyzer Application

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- Initial Release

Power Meter Application

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- Initial Release