LabVIEW driver history for the R&S® Vector Network Analyzers

Products:

- R&S®ZVA

- R&S®ZVB

- R&S®ZVT

Driver history for LabVIEW

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1 Supported Instrument

In the following table, the supported R&S instruments and firmware versions are listed:

Which instruments are supported?		
Current revision of instrument driver supports these instruments and firmware versions:		
Instrument	**Supported Firmware**	**Remarks**
ZVA ZVB ZVT	3.70	

2 Installation of the LabVIEW driver

Before you start the installer, please close your LabVIEW application.

2.1 Installation on a Windows machine

The driver is distributed as WinZip self-extracting executable file. Installer supported operation systems: WinXP, Win7, Win8, Win10.

Preconditions:

- LabVIEW 2015 or newer installed
- Any VISA installed – R&S VISA 5.12.3 or newer / NI VISA 18.0 or newer

When you start the driver WinZip installer, it performs the following steps:

1. Unpacking of the driver's **instr.lib** and **user.lib** directories content as well as the **Installer.vi** into a temporary folder: **C:\temp\rszvb-lv-4.0.0**
   The driver is compiled in LabVIEW 2010 32-bit. From there you can copy it to another location or run the **Installer.vi** manually later. The content of the temporary folder is not deleted after the installation is finished. Starting the same installation again will overwrite all the data in that temporary folder.

2. After unpacking, the **Installer.vi** automatically starts in the last opened version of LabVIEW. In case you have more than one version of LabVIEW installed on your machine, make sure that the last opened LabVIEW version is the one in which you want to install the driver. If that is not the case, cancel the installation, open and close your desired LabVIEW version and run the installer again. You can have the driver installed parallel for more LabVIEW versions by repeating the installation process for each desired version.

3. On the installer options page you can change the location of the **instr.lib** part of the driver. **user.lib** part must be placed in the default location, otherwise the Express VI configuration will not properly function.
   Hitting **Next** button will first delete the old driver (if it existed), copy the new driver and mass-compile it.

4. If you have an older rsidr_toolbox, the installer updates it to the last version.
5. The LabVIEW is closed and after starting it again, the driver is ready for use.

2.2 Installation on a non-Windows machine

In case you would like to install the driver on a non-Windows machine, use a Windows machine to start the driver's WinZip self-extracting executable file. **This machine does not need to have LabVIEW installed.**
After the **Step 1** (see the chapter 2.1), copy the content of the temporary folder to your target machine and start the **Installer.vi** manually.
From that point onwards, the installation process is the same as described in Steps 2, 3, 4 and 5.

3 LabVIEW driver history

rszvb Instrument Driver		
Driver history for LabVIEW		
Revision	Date	Note
4.0.0	03/2022	* Converted to LabVIEW 2015 * All Front Panels reworked to Silver-style controls
3.90.0	03/2018	Fixed parsing options which caused false error messages "Option is not installed" New Help file format Changed some Front-panel Digital controls to SI notations (e.g. 1GHz instead of 1E+9Hz) Fixed all VI and Control Descriptions Optimized width of all VI Palettes New Core 7.1.0
3.80.1	11/2017	Modified VIs: RSZVB Write Memory Trace Data Extended.vi - For ZNx instruments with GPIB interface skip sending SCPI command :SYST:COMM:GPIB:SELF:RTER RSZVB Write Calibration Data.vi - For ZNx instruments with GPIB interface skip sending SCPI command :SYST:COMM:GPIB:SELF:RTER RSZVB Get Ports Count.vi - Fixed Changed Icons for RSZVB Initialize.vi, RSZVB Initialize with Options.vi, RSZVB Close.vi and Utility Functions group
3.80.0	10/2017	Exchanged Driver Core 7.0.0 that supports Simulation mode All VISA resource name inputs are mandatory Changed Palette Icon All Front Panels changed to modern style Cleaned up all Block Diagrams Fixed 'RSZVB Print to File.vi' Several other bug fixes Removed programming examples, they are available in a separate file on the driver website New VIs RSZVB Select More S-Parameters With Detector.vi RSZVB Select S-Parameters With Detector.vi RSZVB Range Checking.vi RSZVB Define Correction.vi RSZVB Initialize with Options.vi RSZVB Error Message.vi RSZVB Query ViBoolean.vi RSZVB Query ViReal64.vi RSZVB Query ViString.vi RSZVB Query with OPC sync.vi RSZVB Write Command with OPC sync.vi RSZVB Write Command.vi Modified VIs RSZVB Configure Measurement Parameters.vi ... help of Parameter control updated RSZVB Write Memory Trace Data Ext.vi ... FDATa removed RSZVB Select More Ratios With Detector.vi RSZVB Select More Ratios Generator With Detector.vi RSZVB Select More Wave Quantities With Detector.vi RSZVB Error Query.vi - previously it read only the last entry, now it reads all the entries in the error queue Deleted VIs: RSZVB Read Instrument Data.vi - use the new 'Instrument IO\Query VIs' RSZVB Write To Instrument.vi - use the new 'Instrument IO\Write VIs' RSZVB Error Query (Multiple) - use the RSZVB Error Query.vi
3.70.0	07/2016	Update for the ZVA Firmware 3.70.0 Improved error handling messages RSZVB Error Query (Multiple).vi removed, RSZVB Error Query.vi always reads all the errors from the error queue All VISA session inputs are set to as 'Required' New VIs:

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Revision	Date	Note
		RSZVB Set Extra Channel Bits State.vi RSZVB Get Extra Channel Bits State.vi RSZVB Set Coherent Signal Amplitude Tolerance.vi RSZVB Get Coherent Signal Amplitude Tolerance.vi RSZVB Set Coherent Signal Phase Tolerance.vi RSZVB Get Coherent Signal Phase Tolerance.vi RSZVB Set TDIF Amplitude Tolerance.vi RSZVB Get TDIF Amplitude Tolerance.vi RSZVB Set TDIF Phase Tolerance.vi RSZVB Get TDIF Phase Tolerance.vi RSZVB Query Active Window.vi RSZVB Query Calibration Kit Modified Date.vi RSZVB Set TRM Low Noise Amplifier State.vi RSZVB Get TRM Low Noise Amplifier State.vi RSZVB Set Power Reduction At Sweep End.vi RSZVB Get Power Reduction At Sweep End.vi RSZVB Clear Status.vi RSZVB ID Query Response.vi RSZVB Process All Previous Commands.vi RSZVB Query OPC.vi Modified VIs: RSZVB Insert New Segment.vi - range of power changed to -40 to 30 RSZVB Set Display Update.vi - added item 'Freeze' to 'Display Update' control RSZVB Get Display Update.vi - added item 'Freeze' to 'Display Update' control RSZVB Set Channel Bits.vi - range of 'Channel Bits' changed to 0 to 255 RSZVB Get Channel Bits.vi - range of 'Channel Bits' changed to 0 to 255 RSZVB Read To File From Instrument.vi - huge file transfers handling RSZVB Write From File To Instrument.vi - huge file transfers handling RSZVB Configure Calibration Standard.vi - parameter 'Connector Type' items corrected RSZVB Import Trace as Limit Line.vi - parameter 'Limit Line Type' items corrected RSZVB Shift Limit Line Segment List.vi - parameter 'Limit Line Type' items corrected RSZVB Set Time Gate Filter.vi - corrected SCPI command parameter RSZVB Get Time Gate Filter.vi - corrected SCPI command parameter RSZVB Set Time Domain Transformation Filter.vi - corrected SCPI command parameter RSZVB Get Time Domain Transformation Filter.vi - corrected SCPI command parameter
3.40.1	01/2015	Added Crosslinks file for QuickDrop SCPI command searcher Added Forced decimal character "%.;" to all formatting/scanning functions
3.40.0	12/2014	New VIs: RSZVB Get Automatic Generator Attenuation.vi RSZVB Set Sweep Segment Triggering.vi RSZVB Get Sweep Segment Triggering.vi RSZVB Set Sweep Selective Segment Triggering.vi RSZVB Get Sweep Selective Segment Triggering.vi RSZVB Set Converter Data Set Type.vi RSZVB Get Converter Data Set Type.vi RSZVB Set Converter User Data Set Directory.vi RSZVB Get Converter User Data Set Directory.vi RSZVB Set Converter Port Assignment.vi RSZVB Get Converter Port Assignment.vi RSZVB Get TRM Number Of Units.vi RSZVB Get TRM Unit Device ID.vi RSZVB Get TRM Unit Hardware Options.vi RSZVB Automatic Vector Mixer Calibration.vi Modified VIs: RSZVB Set Type Of Port Transfer Model.vi RSZVB Get Type Of Port Transfer Model.vi RSZVB Set Type Of Advanced Power Transfer Model.vi RSZVB Get Type Of Advanced Power Transfer Model.vi Deleted VIs: RSZVB Set TRM Pulse Modulator Invert Source.vi RSZVB Set TRM Pulse Modulator Invert Source.vi
3.30.1	09/2014	New VIs: RSZVB Set Power Calibration Method Source.vi

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Revision	Date	Note
		RSZVB Get Power Calibration Method Source.vi RSZVB Set Calibration Power Meter Readings.vi RSZVB Get Calibration Power Meter Readings.vi
3.30.0	08/2014	New VIs: RSZVB Get Source Power Calibration Paramater Timestamp.vi RSZVB Get Calibration Data Timestamp.vi RSZVB Set TRM Measure Input.vi RSZVB Get TRM Measure Input.vi RSZVB Set TRM Combiner State.vi RSZVB Get TRM Combiner State.vi RSZVB Set TRM Power Amplifier State.vi RSZVB Get TRM Power Amplifier State.vi RSZVB Set TRM Pulse Modulator State.vi RSZVB Get TRM Pulse Modulator State.vi RSZVB Set TRM User Source Path Extension State.vi RSZVB Get TRM User Source Path Extension State.vi RSZVB Set TRM User Measurement Path Extension State.vi RSZVB Get TRM User Measurement Path Extension State.vi RSZVB Set TRM Pulse Modulator Source.vi RSZVB Get TRM Pulse Modulator Source.vi RSZVB Set TRM Pulse Modulator Invert Source.vi RSZVB Get TRM Pulse Modulator Invert Source.vi RSZVB Set TRM Pulse Generator Source.vi RSZVB Get TRM Pulse Generator Source.vi RSZVB Set TRM Pulse Generator Invert Source.vi RSZVB Get TRM Pulse Generator Invert Source.vi RSZVB Calibration Retain Port Groups.vi RSZVB Save Calibration Kit Ports.vi Modified VIs: RSZVB Set Signal Source.vi RSZVB Get Signal Source.vi RSZVB Calibration Auto.vi - port range checking removed
3.12.0	10/2013	New VIs: RSZVB Set Simultaneous Measurement Of Ports Groups.vi RSZVB Get Simultaneous Measurement Of Ports Groups.vi RSZVB Set Simultaneous Measurement Frequency Offset State.vi RSZVB Get Simultaneous Measurement Frequency Offset State.vi RSZVB Set Simultaneous Measurement Minimum Frequency Offset Mode.vi RSZVB Get Simultaneous Measurement Minimum Frequency Offset Mode.vi RSZVB Set Simultaneous Measurement Minimum Frequency Offset Bandwidth Factor.vi RSZVB Get Simultaneous Measurement Minimum Frequency Offset Bandwidth Factor.vi RSZVB Set Simultaneous Measurement Minimum Frequency Offset Direct.vi RSZVB Get Simultaneous Measurement Minimum Frequency Offset Direct.vi RSZVB Get Simultaneous Measurement Minimum Frequency Offset Operating Mode.vi RSZVB Set Pulse Generator Master Channel.vi RSZVB Get Pulse Generator Master Channel.vi RSZVB Set Calibration Reference Plane Shift Specific.vi RSZVB Get Calibration Reference Plane Shift Specific.vi
3.11.0	05/2013	New VIs: RSZVB Start Calibration Line.vi RSZVB Set Calibration Reference Plane Shift.vi RSZVB Get Calibration Reference Plane Shift.vi RSZVB Query Calibration Reference Plane Shift.vi RSZVB Set A Wave Ideal Power Meter Match State.vi RSZVB Get A Wave Ideal Power Meter Match State.vi RSZVB Set ALC Port AUBW State.vi RSZVB Get ALC Port AUBW State.vi RSZVB Set ALC Port Bandwidth.vi RSZVB Get ALC Port Bandwidth.vi RSZVB Set ALC Port Coupling.vi RSZVB Get ALC Port Coupling.vi RSZVB Set ALC Channel State.vi RSZVB Get ALC Channel State.vi RSZVB Set ALC Low Phase Noise Mode.vi

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Revision	Date	Note
		RSZVB Get ALC Low Phase Noise Mode.vi RSZVB Set ALC Port Offset State.vi RSZVB Get ALC Port Offset State.vi RSZVB Set ALC Port Control Range.vi RSZVB Get ALC Port Control Range.vi RSZVB Set ALC Port Start Offset.vi RSZVB Get ALC Port Start Offset.vi RSZVB Set ALC Port Setting Tolerance.vi RSZVB Get ALC Port Setting Tolerance.vi RSZVB Start IMOD Receive Port Source Power Calibration.vi RSZVB Start IMOD Lower Upper Tone Ports Source Power Calibration.vi RSZVB Start IMOD Receiver Port Power Calibration.vi RSZVB Set IMOD Distortion Measurement Calibration State.vi RSZVB Get IMOD Distortion Measurement Calibration State.vi RSZVB Set IMOD Enhanced Wave Correction.vi RSZVB Get IMOD Enhanced Wave Correction.vi Modified VIs: RSZVB Select Calibration Type.vi - parameter NMTR RSZVB Get Calibration Typevi - parameter NMTR
3.0.0	11/2012	New Subsystems: Renormalization subsystem Universal Interface subsystem New VIs: RSZVB Set Meas Bandwidth Reduction.vi RSZVB Get Meas Bandwidth Reduction.vi RSZVB Set Sweep Segment Name.vi RSZVB Get Sweep Segment Name.vi RSZVB Set Sweep Segment Spur Avoid.vi RSZVB Get Sweep Segment Spur Avoid.vi RSZVB Set Sweep Segment Independent Spur Avoid.vi RSZVB Get Sweep Segment Independent Spur Avoid.vi RSZVB Set RF Image Frequency.vi RSZVB Get RF Image Frequency.vi RSZVB Set Noise Figure Narowband DUT.vi RSZVB Get Noise Figure Narowband DUT.vi RSZVB Set Noise Figure RF Image Correction.vi RSZVB Get Noise Figure RF Image Correction.vi RSZVB Get Noise Figure Calibration State Label.vi RSZVB Get Source Power Calibration Number Of Waves.vi RSZVB Get Source Power Calibration Paramater Wave.vi RSZVB Get Source Power Calibration Paramater Start.vi RSZVB Get Source Power Calibration Paramater Stop.vi RSZVB Get Source Power Calibration Paramater Points.vi RSZVB Get Source Power Calibration Paramater Type.vi RSZVB Get Source Power Calibration Paramater Attenuation.vi RSZVB Get Source Power Calibration Paramater CW Power.vi RSZVB Get Source Power Calibration Paramater CW Frequency.vi RSZVB Get Calibrations Number.vi RSZVB Get Calibration Data Parameters More Calibrations.vi RSZVB Get Calibration Data Bandwidth.vi RSZVB Get Calibration Data PointDelay.vi RSZVB Get Calibration Data Reciever Attenuation.vi RSZVB Get Calibration Data Type.vi RSZVB Get Calibration Data Ports.vi RSZVB Get Calibration Data Throughs.vi RSZVB Set Calibration Kit With Label.vi RSZVB Get Calibration Kit With Label.vi RSZVB Set Calibration Kit User Connector Type With Label.vi RSZVB Get Calibration Kit User Connector Type With Label.vi RSZVB Calibration Kit Catalog With Label.vi RSZVB Configure Calibration Standard With Label.vi RSZVB Calibration Standards Catalog With Label.vi RSZVB Rename Calibration Kit.vi RSZVB Delete Calibration Kit With Label.vi

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		RSZVB Export Kit With Label.vi RSZVB Set Analyzer Hostname.vi RSZVB Get Analyzer Hostname.vi
2.90.1	07/2012	Modified VIs: RSZVB Select Calibration Type.vi - fixed range checking
2.90.0	01/2012	Release for ZVB/ZVT/ZVA Firmware 2.90 New VIs: RSZVB Select Noise Figure.vi RSZVB Trace Delete All.vi RSZVB Trace Delete All Channels.vi RSZVB Trace Export Data Ports Incomplete.vi RSZVB Set Number Of Stages.vi RSZVB Get Number Of Stages.vi RSZVB Set Signal Source.vi RSZVB Get Signal Source.vi RSZVB Set IF Signal Port.vi RSZVB Get IF Signal Port.vi RSZVB Set RF Signal Port.vi RSZVB Get RF Signal Port.vi RSZVB Set Fixed Power To Signal.vi RSZVB Get Fixed Power To Signal.vi RSZVB Set Signal Power Mode.vi RSZVB Get Signal Power Mode.vi RSZVB Set Fixed Frequency Signal Stage 2.vi RSZVB Get Fixed Frequency Signal Stage 2.vi RSZVB Set Fixed Frequency To Signal.vi RSZVB Get Fixed Frequency To Signal.vi RSZVB Set Frequency Conversion Mode Stage 2.vi RSZVB Get Frequency Conversion Mode Stage2.vi RSZVB Set Frequency LO Conversion Factor.vi RSZVB Get Frequency LO Conversion Factor.vi RSZVB Set Frequency RF Conversion Factor.vi RSZVB Get Frequency RF Conversion Factor.vi RSZVB LO Source Calibration Stage 2.vi RSZVB Calibration Auto Assignment Type.vi RSZVB Calibration Auto Assignment Definition.vi RSZVB Get Calibration Auto Assingnment Definition.vi RSZVB Initiate Calibration Auto Assignment.vi RSZVB Calibration Auto Assignment Save.vi RSZVB Calibration Auto Assingnment Delete All.vi RSZVB Set Preset Settings State.vi RSZVB Get Preset Settings State.vi Modified VIs: RSZVB Configure Frequency Settings.vi - LO1, LO2 added, LO substituted by LO1 RSZVB Set Fundamental Frequency Signal.vi - LO1, LO2 added, LO substituted by LO1 RSZVB Get Fundamental Frequency Signal.vi - LO1, LO2 added RSZVB Set Fixed Frequency Signal.vi - LO1, LO2 added, LO substituted by LO1 RSZVB Get Fixed Frequency Signal.vi - LO1, LO2 added Modified option checking for option K30
2.86.0	09/2011	Release for ZVB/ZVT/ZVA Firmware 2.86 Modifications: New VIs: RSZVB Select More Ratios Generator.vi RSZVB Select More Ratios Generator With Detector.vi RSZVB Trace Add Mode.vi RSZVB Trace Complex Response Data.vi RSZVB Trace Complex Response Catalog.vi RSZVB Trace Export Data Ports.vi RSZVB Set Converter Cal Power Offset.vi RSZVB Get Converter Cal Power Offset.vi

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Revision	Date	Note
		RSZVB Set TDIF Receiver Frequency.vi RSZVB Get TDIF Receiver Frequency.vi RSZVB Set LN Preamplifier.vi RSZVB Get LN Preamplifier.vi RSZVB Set Same Sweep Setup.vi RSZVB Get Same Sweep Setup.vi RSZVB Set S-Parameter Detector.vi RSZVB Get S-Parameter Detector.vi RSZVB Set Enhanced Wave Correction.vi RSZVB Get Enhanced Wave Correction.vi RSZVB Set Load Matching Correction.vi RSZVB Get Load Matching Correction.vi RSZVB Set RF Off Behavior.vi RSZVB Get RF Off Behavior.vi RSZVB Set Output Port Bits.vi RSZVB Get Output Port Bits.vi RSZVB Set Calibration Correction Base Frequency State - for fw 2.86 RSZVB Get Calibration Correction Base Frequency State RSZVB Disable IMOD Measurement RSZVB Set Remote Display Title.vi RSZVB Get Remote Display Title.vi Modified VIs: RSZVB Select Wave Quantities.vi RSZVB Set Logical Port Common Ref Impedance.vi RSZVB Set Connector.vi - added new connectors PC 1, PC 1.85, PC 2.4 RSZVB Get Connector.vi RSZVB Start Calibration.vi RSZVB Acquire Receiver Power Calibration.vi - enabled port selection for frequency converter, removed support for ZVR (extra command parameters)
2.79.0	05/2011	Modifications: - Fixed ZNB/ZNC support
2.79.0	05/2011	Release for ZVB/ZVT/ZVA Firmware 2.79 * Added Converter configuration Source Power Correction rszvb Set Trace Unit.vi, rszvb Get Trace Unit.vi rszvb Set Mixer Delay Division By Two Enabled.vi, rszvb Get Mixer Delay Division By Two Enabled.vi rszvb Set Mixer Constant Delay Enabled.vi, rszvb Get Mixer Constant Delay Enabled.vi rszvb Set Source Power Calibration Converter State.vi, rszvb Get Source Power Calibration Converter State.vi rszvb rszvb Export User Characterization Data to Touchstone File.vi rszvb Get Calibration Label.vi rszvb Set Automatic Power Reduction State.vi, rszvb Get Automatic Power Reduction State.vi rszvb Set Restart Behavior.vi, rszvb Get Restart Behavior.vi rszvb Generate System Report.vi rszvb Set Calculation Of Bandfilter Center Frequency.vi, rszvb Get Calculation Of Bandfilter Center Frequency.vi * Modified rszvb Print to File.vi - modified API to allow better configuration of printout rszvb Start Calibration.vi - new calibrations added all traces are now read in 64 bit floating point format RSZVB Trace Response Data.vi - fixed order of Data Format
2.75.0	06/2010	Release for ZVB/ZVT/ZVA Firmware 2.75 New features: Bandwidth Fine Adjust Partial Measurement Trigger Delay Adjust Port Pair Calibration Mixer Delay External Receiver Vector Mixer Measurement - AUX ALC PI Controller Power Port Limits

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Revision	Date	Note
		New VIs: RSZVB Set IF Gain Reference Channel.vi RSZVB Get IF Gain Reference Channel.vi RSZVB Set Trace Evaluation Range Show.vi, RSZVB Get Trace Evaluation Range Show.vi RSZVB Set Marker Search Range Show.vi, RSZVB Set Marker Search Range Show.vi RSZVB Get Current Sweep.vi RSZVB Load And Interchange Balanced Port Circuit Model Data.vi RSZVB Load And Interchange Single Ended Port Circuit Model Data.vi RSZVB Set ALC Port Clamp.vi, RSZVB Get ALC Port Clamp.vi RSZVB Set Same Connector Gender At All Ports.vi, RSZVB Get Same Connector Gender At All Ports.vi RSZVB Set Dummy Source Power Calibration Sensitivity Correction Range.vi, RSZVB Get Dummy Source Power Calibration Sensitivity Correction Range.vi RSZVB Query Frequency Range.vi RSZVB Set NWA Application Priority.vi, RSZVB Get NWA Application Priority.vi RSZVB System Shutdown.vi Modified VIs: RSZVB Select More Ratios With Detector.vi RSZVB Select More Wave Quantities With Detector.vi RSZVB Trace Response Data.vi - added pulse profile measurement RSZVB Calibration Manager.vi - added new operations Merge, Apply to All and Resolve for All RSZVB Insert New Segment.vi, RSZVB Set Sweep Segment Number Of Points.vi - fixed number of points range RSZVB Read Calibration Data.vi - removed parameter Isolation
2.70.1	02/2009	Modifications: Fixed reading of trace data in binary format
2.70	11/2009	Release for ZVB/ZVT/ZVA Firmware 2.70 New VI: RSZVB Linearity Deviation Manual.vi RSZVB Linearity Deviation Auto.vi RSZVB Set Linearity Deviation State.vi RSZVB Get Linearity Deviation State.vi RSZVB Set Linearity Deviation Slope.vi RSZVB Get Linearity Deviation Slope.vi RSZVB Set Linearity Deviation Constant.vi RSZVB Get Linearity Deviation Constant.vi RSZVB Set Linearity Deviation Electrical Length.vi RSZVB Get Linearity Deviation Electrical Length.vi RSZVB Set Frequency High Accuracy.vi RSZVB Get Frequency High Accuracy.vi RSZVB Set Noise Figure Detector Measurement Time.vi RSZVB Get Noise Figure Detector Measurement Time.vi RSZVB Set Noise Figure Measurement Mode.vi RSZVB Get Noise Figure Measurement Mode.vi RSZVB Set Noise Figure LO Oscillator.vi RSZVB Get Noise Figure LO Oscillator.vi RSZVB Set Noise Figure Calibration State.vi RSZVB Get Noise Figure Calibration State.vi RSZVB Define Noise Figure Calibration Settings.vi RSZVB Start Noise Figure Calibration.vi RSZVB Terminate Noise Figure Calibration.vi RSZVB Complete Noise Figure Calibration.vi RSZVB Overwrite Noise Figure Channel Settings.vi RSZVB Set Virtual Transform Ground Loop State.vi RSZVB Get Virtual Transform Ground Loop State.vi RSZVB Set Virtual Transform Ground Loop.vi RSZVB Get Virtual Transform Ground Loop.vi RSZVB Set Virtual Transform Ground Loop Circuit Model.vi RSZVB Get Virtual Transform Ground Loop Circuit Model.vi RSZVB Load Ground Loop Circuit Model Data.vi RSZVB Calibration Connector Catalog.vi

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		RSZVB Calibration Kit Catalog.vi RSZVB Calibration Standards Catalog.vi Modified VIs: RSZVB Start Calibration.vi RSZVB Configure Calibration Standard.vi RSZVB Load Calibration Kit.vi
2.6.0	09/2009	Release for ZVB/ZVT/ZVA Firmware 2.60 Initial Release for Linux, support for: - Mandriva Linux 2008 and Mandriva Linux 2009 - openSUSE 10.3 and openSUSE 11.0 New VI: RSZVB Acquire Fixture Compensation Sweep.vi RSZVB Configure Chopped Pulse Profile.vi RSZVB Configure Pulse Generators.vi RSZVB Define Pulse Generator.vi RSZVB Define Pulse Train Segments.vi RSZVB Delete All Pulse Train Segments.vi RSZVB Get ALC Port State.vi RSZVB Get Chopped Pulse Profile Delay Increment.vi RSZVB Get Chopped Pulse Profile Mode.vi RSZVB Get Converter Power Offset.vi RSZVB Get Converter Source Frequency.vi RSZVB Get External Signal Generator Input.vi RSZVB Get External Signal Generator Output.vi RSZVB Get Fast Multiport Correction.vi RSZVB Get Fixture Compensation Auto Length And Loss Calculation.vi RSZVB Get Fixture Compensation Direct Compensation.vi RSZVB Get Harmonic Filter.vi RSZVB Get Hold.vi RSZVB Get IMOD Two Tone Output.vi RSZVB Get Indivi RSZVB Get Internal Combiner.vi RSZVB Get Mixed Delay Combiner State.vi RSZVB Get Mixer Delay Aperture.vi RSZVB Get Mixer Delay Constant.vi RSZVB Get Mixer Delay Correction.vi RSZVB Get Mixer Delay Upper Tone Source.vi RSZVB Get Power Coeficients Default.vi RSZVB Get Power Coeficients.vi RSZVB Get Pulse Generator Assignment.vi RSZVB Get Pulse Generator Delay.vi RSZVB Get Pulse Generator Mode.vi RSZVB Get Pulse Generator Polarity.vi RSZVB Get Pulse Generator Single Period.vi RSZVB Get Pulse Generator State.vi RSZVB Get Pulse Generator Train Period.vi RSZVB Get Pulse Generator Type.vi RSZVB Get Pulse Generator Width.vi RSZVB Get Pulse Modulator.vi RSZVB Get Pulse Train Segment Count.vi RSZVB Get Pulse Train Segment Start.vi RSZVB Get Pulse Train Segment State.vi RSZVB Get Pulse Train Segment Stop.vi RSZVB Get Pulse Train Segments.vi RSZVB Get Reference Discrete Marker.vi RSZVB Get Reference Fixed Marker.vi RSZVB Get Source Power Calibration Convergence Factor.vi RSZVB Get Trace Display State.vi RSZVB Get Vector Mixer Mode.vi RSZVB Load Mixer Delay Calibration Data.vi

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Revision	Date	Note
		RSZVB Load Mixer Delay Values.vi RSZVB Load Pulse Train File.vi RSZVB Query Direct Fixture Compensation.vi RSZVB Query Extension Unit Devi RSZVB Query Extension Unit Hardware Options.vi RSZVB Query External Generator Count.vi RSZVB Query External Generator Numbers.vi RSZVB Query External Power Meter Count.vi RSZVB Query External Power Meter Numbers.vi RSZVB Query Sum Of Sweep Segments Time.vi RSZVB Read Time Samples Data.vi RSZVB Save Fixture Compensation Data.vi RSZVB Save Pulse Train File.vi RSZVB Set ALC Port State.vi RSZVB Set Chopped Pulse Profile Delay Increment.vi RSZVB Set Chopped Pulse Profile Mode.vi RSZVB Set Converter Power Offset.vi RSZVB Set Converter Source Frequency.vi RSZVB Set External Signal Generator Input.vi RSZVB Set External Signal Generator Output.vi RSZVB Set Fast Multiport Correction.vi RSZVB Set Fixture Compensation Auto Length And Loss Calculation.vi RSZVB Set Fixture Compensation Direct Compensation.vi RSZVB Set Harmonic Filter.vi RSZVB Set Hold.vi RSZVB Set IMOD Two Tone Output.vi RSZVB Set Indivi RSZVB Set Internal Combiner.vi RSZVB Set Mixed Delay Combiner State.vi RSZVB Set Mixer Delay Aperture.vi RSZVB Set Mixer Delay Constant.vi RSZVB Set Mixer Delay Correction.vi RSZVB Set Mixer Delay Upper Tone Source.vi RSZVB Set Power Coeficients Default.vi RSZVB Set Power Coeficients.vi RSZVB Set Pulse Generator Assignment.vi RSZVB Set Pulse Generator Delay.vi RSZVB Set Pulse Generator Mode.vi RSZVB Set Pulse Generator Polarity.vi RSZVB Set Pulse Generator Single Period.vi RSZVB Set Pulse Generator State.vi RSZVB Set Pulse Generator Train Period.vi RSZVB Set Pulse Generator Type.vi RSZVB Set Pulse Generator Width.vi RSZVB Set Pulse Modulator.vi RSZVB Set Pulse Train Segment Start.vi RSZVB Set Pulse Train Segment State.vi RSZVB Set Pulse Train Segment Stop.vi RSZVB Set Reference Discrete Marker.vi RSZVB Set Reference Fixed Marker.vi RSZVB Set Source Power Calibration Convergence Factor.vi RSZVB Set Trace Display State.vi RSZVB Set Vector Mixer Mode.vi RSZVB Start Fixture Compensation Sweep.vi RSZVB Start Mixer Delay Calibration Sweep.vi RSZVB Store Mixer Delay Calibration Data.vi RSZVB Trace Response Data All Data.vi RSZVB ZVAX Path Configuration.vi Modified VIs: RSZVB Acquire Source Power Calibration.vi - Added CONVerter RSZVB Set Trigger Source.vi - Added PGENerator RSZVB Get Trigger Source.vi - Added PGENerator RSZVB Select Calibration Type.vi - Added FTRans, RTRans RSZVB Get Calibration Type.vi - Added FTRans, RTRans

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		RSZVB Get Calibration State.vi
2.51.1	03/2009	Modifications: New VI: - RSZVB Write Memory Trace Data Extended.vi Modified VIs: - RSZVB Select Calibration Type.vi - added TOSM With Unknown Through calibration RSZVB Write Memory Trace Data.vi
2.51.0	12/2008	Release for ZVB/ZVT/ZVA Firmware 2.51.0 Modifications: New VI: RSZVB Set Aperture Group Delay Steps.vi RSZVB Get Aperture Group Delay Steps.vi RSZVB Trace Response Data All.vi RSZVB Trace Response Single Sweep Data Count.vi RSZVB Trace Response Single Sweep Data Forward.vi RSZVB Write Memory Trace Data.vi RSZVB Trace Export Data With Options Ext.vi RSZVB Channel Trace Export Data With Options Ext.vi RSZVB Set Marker Search Mode.vi RSZVB Get Marker Search Mode.vi RSZVB Set Generator Attenuator Mode.vi RSZVB Get Generator Attenuator Mode.vi RSZVB Set Sweep Segment Bits State.vi RSZVB Get Sweep Segment Bits State.vi RSZVB Set Sweep Segment Bit Values.vi RSZVB Get Sweep Segment Bit Values.vi RSZVB Define Group Of All Measured Ports.vi RSZVB Get Group Of All Measured Ports.vi RSZVB Get Port Groups Count.vi RSZVB Set Default Configuration State.vi RSZVB Get Default Configuration State.vi RSZVB Set Port Configration.vi RSZVB Get Port Configration.vi RSZVB Set Port Impedances Renormalization.vi RSZVB Get Port Impedances Renormalization.vi RSZVB Set IMOD Lower Tone Source.vi RSZVB Get IMOD Lower Tone Source.vi RSZVB Set IMOD Upper Tone Source.vi RSZVB Get IMOD Upper Tone Source.vi RSZVB Set IMOD Tone Distance.vi RSZVB Get IMOD Tone Distance.vi RSZVB Set IMOD Receiver Port.vi RSZVB Get IMOD Receiver Port.vi RSZVB Set IMOD Measurement Order.vi RSZVB Get IMOD Measurement Order.vi RSZVB Set IMOD Internal Combiner.vi RSZVB Get IMOD Internal Combiner.vi RSZVB Set IMOD Spectrum Measurement.vi RSZVB Get IMOD Spectrum Measurement.vi RSZVB Set IMOD Max Order.vi RSZVB Get IMOD Max Order.vi RSZVB Start IMOD Lower Tone Source Power Calibration.vi RSZVB StartIMODUpperToneSourcePowerCalibration.vi RSZVB StartIMODReceiverPowerCalibration.vi RSZVB Set Coherent Signal State.vi RSZVB Get Coherent Signal State.vi RSZVB Set Coherent Signal Amplitude.vi RSZVB Get Coherent Signal Amplitude.vi RSZVB Set Coherent Signal Phase.vi RSZVB Get Coherent Signal Phase.vi RSZVB Set Coherent Signal Reference Port.vi

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		RSZVB Get Coherent Signal Reference Port.vi RSZVB Start Calibration With Options.vi RSZVB Set Dummy Source Power Calibration State.vi RSZVB Get Dummy Source Power Calibration State.vi RSZVB Set Reference Receiver After First Cal Sweep.vi RSZVB Get Reference Receiver After First Cal Sweep.vi RSZVB Set Calibration Kit Label.vi RSZVB Get Calibration Kit Label.vi RSZVB Delete Calibration Kit.vi RSZVB Set Font Size.vi RSZVB Get Font Size.vi RSZVB Set Channel Info.vi RSZVB Get Channel Info.vi RSZVB Set Remote Language.vi RSZVB Get Remote Language.vi RSZVB set Check Range.vi Modifiead VI: RSZVB File Manager.vi RSZVB default Instr Setup (added command FORM:BORD SWAP).vi RSZVB Set Power (no range checking).vi RSZVB Start Calibration.vi RSZVB Configure Calibration Standard.vi
2.30.2	07/2008	Modifications: For large trace data: - Fixed RSZVB Read Trace Data.vi - incomplete trace readout fixed
2.30.1	05/2008	- Release for ZVB/ZVT/ZVA Firmware 2.30 - Modified VIs (frequency/offset range checking removed): RSZVB Set Start Frequency.vi RSZVB Set Stop Frequency.vi RSZVB Set Center Frequency.vi RSZVB Set Frequency Span.vi RSZVB Set CW Frequency.vi RSZVB Set Sweep Segment Start Frequency.vi RSZVB Set Sweep Segment Stop Frequency.vi RSZVB Insert New Segment.vi RSZVB Redefine Segment.vi RSZVB Set Frequency Conversion.vi RSZVB Set Power Meter Frequency Conversion.vi RSZVB Set Generator Frequency Conversion.vi
2.30	12/2007	- Release for ZVB/ZVT/ZVA Firmware 2.30 - New VI: RSZVB Add Ripple Limit Line Ranges Segment.vi RSZVB Additional Directory Calibration Kit.vi RSZVB Auto Config NRPZxx.vi RSZVB Auto Zeroing External Power Meter.vi RSZVB Calibration Auto Type Simplified.vi RSZVB Calibration Auto Type.vi RSZVB Channel Trace Export Data With Options.vi RSZVB Channel Trace Export Data.vi RSZVB Delete All Calibration Data.vi RSZVB Delete All Ripple Limit Ranges.vi RSZVB Diagram Area Catalog.vi RSZVB Diagram Area Name.vi RSZVB Edit Ripple Limit Line Segment.vi RSZVB Get Auto Config NRPZxx.vi RSZVB Get Check Ripple Limit Range Segment.vi RSZVB Get Number Ripple Limit Ranges.vi RSZVB Get Ripple Check On.vi RSZVB Get Ripple Fail Beep On.vi

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		RSZVB Get Ripple Limit Check Segment Result.vi RSZVB Get Ripple Limit Global Check Result.vi RSZVB Get Ripple Limit Range.vi RSZVB Get Ripple Limits Display State.vi RSZVB Get Source Combiner State.vi RSZVB Save Recall Ripple Limit.vi RSZVB Set Auto Config NRPZxx.vi RSZVB Set Check Ripple Limit Range Segment.vi RSZVB Set Ripple Check On.vi RSZVB Set Ripple Fail Beep On.vi RSZVB Set Ripple Limit Physical Units.vi RSZVB Set Ripple Limit Range.vi RSZVB Set Ripple Limit Response Domain Format Units.vi RSZVB Set Ripple Limits Display State.vi RSZVB Set Source Combiner State.vi RSZVB Trace Diagram Area Catalog.vi - Modified VIs: panel control corrected RSZVB Set Alarm Sounds State.vi RSZVB Set Status Sounds State.vi RSZVB Set Error Display State.vi
2.20	10/2007	- Release for ZVB/ZVT/ZVA Firmware 2.20 - New VI: RSZVB Trace Assign Window Diagram Area.vi RSZVB Trace Get Channel Name.vi RSZVB Trace Get Channel Number.vi RSZVB Set Time Domain Transformation Resolution Efactor.vi RSZVB Get Time Domain Transformation Resolution Efactor.vi RSZVB Set TDIF Source Power Mode.vi RSZVB Get TDIF Source Power Mode.vi RSZVB Set TDIF Compensation State.vi RSZVB Get TDIF Compensation State.vi RSZVB Generator Power Calibration Harmonic.vi RSZVB Set Source Power Calibration State.vi RSZVB Get Source Power Calibration State.vi RSZVB Set Reference Receiver Calibration State.vi RSZVB Get Reference Receiver Calibration State.vi RSZVB Receiver Power Calibration Harmonic.vi RSZVB Set Frequency Conversion Type.vi RSZVB Get Frequency Conversion Type.vi RSZVB Set Frequency Conversion Source.vi RSZVB Get Frequency Conversion Source.vi - Modified VIs: RSZVB Get Display Update.vi RSZVB Trace Statistical Evaluation.vi
2.10.1	04/2007	- Release for ZVB/ZVT/ZVA Firmware 2.10 - New VI: RSZVB Set User Defined Preset State.vi RSZVB Get User Defined Preset State.vi RSZVB Set User Defined Preset File.vi RSZVB Get User Defined Preset File.vi RSZVB Option Checking.vi - Modified VIs: RSZVB Check Option.vi
2.10.0	03/2007	- Driver update for ZVB/ZVT/ZVA Firmware 2.10 - New VI: RSZVB Channel Get Active.vi RSZVB Channel Get Channel Name.vi RSZVB Channel Get Channel Number.vi RSZVB Channel Rename.vi

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		RSZVB Channel Set Active.vi RSZVB Get Automatic Level Control State.vi RSZVB Get TDIF Amplitude Imbalance Logical Port.vi RSZVB Get TDIF Amplitude Imbalance Start Power.vi RSZVB Get TDIF Amplitude Imbalance Stop Power.vi RSZVB Get TDIF Phase Imbalance Logical Port.vi RSZVB Get TDIF Phase Imbalance Start Phase.vi RSZVB Get TDIF Phase Imbalance Stop Phase.vi RSZVB Get TDIF State.vi RSZVB Query Verification Sweep Results.vi RSZVB Set Automatic Level Control State.vi RSZVB Set TDIF Amplitude Imbalance Logical Port.vi RSZVB Set TDIF Amplitude Imbalance Start Power.vi RSZVB Set TDIF Amplitude Imbalance Stop Power.vi RSZVB Set TDIF Phase Imbalance Logical Port.vi RSZVB Set TDIF Phase Imbalance Start Phase.vi RSZVB Set TDIF Phase Imbalance Stop Phase.vi RSZVB Set TDIF State.vi RSZVB Trace Get RGB Color.vi RSZVB Trace Get Trace Name.vi RSZVB Trace Get Trace Number.vi RSZVB Trace List Catalog.vi RSZVB Trace Set RGB Color.vi RSZVB Select Power Meter.vi - Modified VIs: RSZVB Get Display Results State.vi RSZVB Get Sweep Type.vi RSZVB Set Display Results State.vi RSZVB Set Sweep Type.vi RSZVB Trace Statistical Evaluation.vi RSZVB Channel Add Trace RSZVB Trace Assign Diagram Area RSZVB Wait For OPC.vi
2.02.0	01/2007	- Driver update for ZVB/ZVT/ZVA Firmware 2.02 - New VI: RSZVB Set Trace Scale Divisions By Name.vi RSZVB Set Trace Ref Value By Name.vi RSZVB Set Trace Ref Position By Name.vi RSZVB Channel Trace Rename.vi RSZVB Trace Rename.vi RSZVB Set Time Out.vi RSZVB Get Time Out.vi - Modified VIs: RSZVB Channel Add.vi - Modified VIs' helps: RSZVB RF Source Calibration.vi RSZVB IF Receiver Calibration.vi RSZVB LO Source Calibration.vi RSZVB Acquire Source Power Calibration.vi RSZVB Initiate Source Power Calibration.vi RSZVB Set Verification Sweep State.vi RSZVB Get Verification Sweep State.vi RSZVB Acquire Receiver Power Calibration.vi RSZVB Set Calibration Data Current State.vi RSZVB Get Calibration Data Current State.vi RSZVB Set Calibration Data Default State.vi RSZVB Get Calibration Data Default State.vi RSZVB Start Calibration.vi
2.00.0	12/2006	- Driver update for ZVB/ZVT/ZVA Firmware 2.00 - New VI: RSZVB Trace Autoscale By Name.vi

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		RSZVB Trace Add S-Parameter Group.vi RSZVB Query Trace Add S-Parameter Group.vi RSZVB Set Time Gate Display State.vi RSZVB Get Time Gate Display State.vi RSZVB Set Display Results State.vi RSZVB Get Display Results State.vi RSZVB Set Trace Format ZVR.vi RSZVB Get Trace Format ZVR.vi RSZVB Trace Response Data ZVR.vi RSZVB Trace Stimulus Data ZVR.vi RSZVB Trace Response Data S-Parameter Group.vi RSZVB Trace Export Data With Options.vi RSZVB Marker x dB Bandwidth ZVR.vi RSZVB Marker Bandfilter Results ZVR.vi RSZVB Set Marker Search Result State.vi RSZVB Get Marker Search Result State.vi RSZVB Recall Limit Line With Options.vi RSZVB Set Generator Step Attenuators.vi RSZVB Get Generator Step Attenuators.vi RSZVB Set Automatic Generator Attenuator.vi RSZVB Get Automatic Generator Attenuator.vi RSZVB Set Meas Bandwidth Selectivity.vi RSZVB Get Meas Bandwidth Selectivity.vi RSZVB Set Pulse Time Start.vi RSZVB Get Pulse Time Start.vi RSZVB Set Pulse Time Stop.vi RSZVB Get Pulse Time Stop.vi RSZVB Set Pulse Time Bandwidth.vi RSZVB Get Pulse Time Bandwidth.vi RSZVB Set Pulse Coupled Section Limit Lines State.vi RSZVB Get Pulse Coupled Section Limit Lines State.vi RSZVB Set Pulse Evaluation Mode.vi RSZVB Get Pulse Evaluation Mode.vi RSZVB Set Pulse Evaluation Section Start.vi RSZVB Get Pulse Evaluation Section Start.vi RSZVB Set Pulse Evaluation Section Stop.vi RSZVB Get Pulse Evaluation Section Stop.vi RSZVB Set Pulse Section Limit Lines State.vi RSZVB Get Pulse Section Limit Lines State.vi RSZVB Set Pulse Shift Stimulus.vi RSZVB Get Pulse Shift Stimulus.vi RSZVB Set Frequency Stimulus.vi RSZVB Get Frequency Stimulus.vi RSZVB Set Power Stimulus.vi RSZVB Get Power Stimulus.vi RSZVB Set User Connector.vi RSZVB Get User Connector.vi RSZVB Set Calibration Power Generator Offset.vi RSZVB Get Calibration Power Generator Offset.vi RSZVB Set Calibration Kit User Connector Type.vi RSZVB Get Calibration Kit User Connector Type.vi RSZVB Configure Loss.vi RSZVB Set Loss At DC.vi RSZVB Get Loss At DC.vi RSZVB Set Loss At Frequency.vi RSZVB Get Loss At Frequency.vi RSZVB Set Loss Reference Frequency.vi RSZVB Get Loss Reference Frequency.vi RSZVB Auto Length And Loss.vi RSZVB Set Data Transfer.vi RSZVB Get Data Transfer.vi RSZVB Set Error Display State.vi RSZVB Get Error Display State.vi - Modified VIs:

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		RSZVB Trace Autoscale.vi RSZVB Set Sweep Type.vi RSZVB Get Sweep Type.vi RSZVB Start Calibration.vi RSZVB Set Status Register.vi RSZVB Get Status Register.vi
1.90.0	06/2006	- Driver update for ZVB/ZVT/ZVA Firmware 1.90 New VI: RSZVB Calibration Auto Simplified.vi RSZVB Delete Calibration Connector.vi RSZVB Delete Memory Trace.vi RSZVB Export Kit.vi RSZVB Generate Default Calibration Data.vi RSZVB Get Alarm Sounds State.vi RSZVB Get Calibration Connection.vi RSZVB Get Calibration Connector.vi RSZVB Get Calibration Data Current State.vi RSZVB Get Calibration Data Default State.vi RSZVB Get Factory Calibration State.vi RSZVB Get Frequency Conversion.vi RSZVB Get Frequency Step Size.vi RSZVB Get IF Gain.vi RSZVB Get Local Oscilator A State.vi RSZVB Get Local Oscilator B State.vi RSZVB Get Logical Port Common Ref Impedance.vi RSZVB Get Logical Port Differential Ref Impedance.vi RSZVB Get Low Phase Noise State.vi RSZVB Get Marker Color State.vi RSZVB Get Measure A Waves State.vi RSZVB Get Permanent Signal Source State.vi RSZVB Get Physical Port Ref Impedance.vi RSZVB Get Receiver Step Attenuators.vi RSZVB Get Reference Frequency.vi RSZVB Get Reference Marker Response.vi RSZVB Get RF Signal Source State.vi RSZVB Get RGB Color.vi RSZVB Get SAW Simulation Type.vi RSZVB Get Slope.vi RSZVB Get Source Port.vi RSZVB Get Status Sounds State.vi RSZVB Get Sweep Segment Selectivity.vi RSZVB Get Time Gate Shape.vi RSZVB Get Time Gate Span.vi RSZVB Get Trace Bottom.vi RSZVB Get Trace Color State.vi RSZVB Get Trace Compression Point.vi RSZVB Get Trace Compression Value.vi RSZVB Get Trace Math Function.vi RSZVB Get Trace Math Wave Quantity State.vi RSZVB Get Trace Top.vi RSZVB Get Trace Transform Conversion.vi RSZVB Get Virtual Transform Balanced Circuit Model.vi RSZVB Get Virtual Transform Balanced Port.vi RSZVB Get Virtual Transform Balanced State.vi RSZVB Get Virtual Transform Single Ended Circuit Model.vi RSZVB Get Virtual Transform Single Ended Port.vi RSZVB Get Virtual Transform Single Ended State.vi RSZVB Import Kit.vi RSZVB Load Balanced Port Circuit Model Data.vi RSZVB Load Calibration Kit.vi RSZVB Load Color Scheme.vi RSZVB Load Segment.vi

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		RSZVB Load Single Ended Port Circuit Model Data.vi RSZVB Query Overlapping Sweep Segments.vi RSZVB Save All Markers.vi RSZVB Save Color Scheme.vi RSZVB Save Segment.vi RSZVB Set Alarm Sounds State.vi RSZVB Set Calibration Connector.vi RSZVB Set Calibration Data Current State.vi RSZVB Set Calibration Data Default State.vi RSZVB Set Factory Calibration State.vi RSZVB Set Frequency Conversion.vi RSZVB Set Frequency Step Size.vi RSZVB Set IF Gain.vi RSZVB Set Limit Domain Units.vi RSZVB Set Limit Response Domain Complex Units.vi RSZVB Set Limit Response Domain Format Units.vi RSZVB Set Limit Response Domain Spacing Units.vi RSZVB Set Local Oscilator A State.vi RSZVB Set Local Oscilator B State.vi RSZVB Set Logical Port Common Ref Impedance.vi RSZVB Set Logical Port Differential Ref Impedance.vi RSZVB Set Low Phase Noise State.vi RSZVB Set Marker Color State.vi RSZVB Set Measure A Waves State.vi RSZVB Set Permanent Signal Source State.vi RSZVB Set Physical Port Ref Impedance.vi RSZVB Set Receiver Step Attenuators.vi RSZVB Set Reference Frequency.vi RSZVB Set RF Signal Source State.vi RSZVB Set RGB Color.vi RSZVB Set SAW Simulation Type.vi RSZVB Set Slope.vi RSZVB Set Source Port.vi RSZVB Set Status Sounds State.vi RSZVB Set Sweep Segment Selectivity.vi RSZVB Set Time Gate Shape.vi RSZVB Set Time Gate Span.vi RSZVB Set Trace Bottom.vi RSZVB Set Trace Color State.vi RSZVB Set Trace Compression Value.vi RSZVB Set Trace Math Function.vi RSZVB Set Trace Math Wave Quantity State.vi RSZVB Set Trace Top.vi RSZVB Set Trace Transform Conversion.vi RSZVB Set Virtual Transform Balanced Circuit Model.vi RSZVB Set Virtual Transform Balanced Port.vi RSZVB Set Virtual Transform Balanced State.vi RSZVB Set Virtual Transform Single Ended Circuit Model.vi RSZVB Set Virtual Transform Single Ended Port.vi RSZVB Set Virtual Transform Single Ended State.vi RSZVB Trace Response Data Error.vi Modified VIs: RSZVB Configure Mechanical Length RSZVB Query Reset Offsets.vi RSZVB Reset Offsets.vi RSZVB Trace Response Data.vi
1.4.1	05/2006	Modifications: New VI: RSZVB Acquire Source Power Calibration.vi RSZVB Acquire Receiver Power Calibration.vi Modified VIs: RSZVB Read Source Power Correction Data.vi RSZVB Set Fundamental Power Signal.vi

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		RSZVB Get Fundamental Power Signal.vi RSZVB Set Fixed Power.vi RSZVB Get Fixed Power.vi RSZVB Set Time Gate State.vi RSZVB Get Time Gate State.vi RSZVB Set Calibration Power Offset.vi RSZVB Get Calibration Power Offset.vi RSZVB Modify Source Power Calibration Settings.vi RSZVB Configure Source Power Calibration.vi Removed from the VI Tree: RSZVB Configure Source Power Calibration.vi RSZVB Configure Receiver Power Calibration.vi
1.4	04/2006	Modifications: Mixer Mode Measurement added Power Calibration added New VIs: RSZVB Set Correction State.vi RSZVB Get Correction State.vi RSZVB Se tSource Power Correction State.vi RSZVB Get Source Power Correction State.vi RSZVB Set Receiver Power Correction Statev RSZVB Get Receiver Power Correction State.vi RSZVB Configure External Generator.vi RSZVB Query External Generator.vi RSZVB Delete External Generator.vi RSZVB Configure External Power Meter.vi RSZVB Query External Power Meter.vi RSZVB Delete External Power Meter.vi
1.3	03/2006	Modifications: - ZVA support added - New VIs: RSZVB Get Calibration Type.vi RSZVB Export Characterization Data to Touchstone Files.vi RSZVB Get Calibration Date.vi RSZVB Get Calibration State.vi RSZVB Get Calibration Data Parameters.vi RSZVB Save Calibration Kit.vi RSZVB System Keylock.vi RSZVB Set Soft Key Label.vi RSZVB Get Pressed Soft Key.vi RSZVB Set Active Calibration Unit.vi RSZVB Get Active Calibration Unit.vi RSZVB Get All Calibration Units.vi RSZVB Configure Calibration Unit Standard.vi - Modified VIs: RSZVB Set Time Domain Transformation Type.vi RSZVB Redefine Segment.vi RSZVB Insert New Segment.vi RSZVB Marker Bandpass Search.vi RSZVB Select More Ratios With Detector.vi
1.2	07/2005	Modifications: - Added new RSZVB Calibration Auto with Timeout.vi - Fixed RSZVB Start Calibration.vi - range checking of port 2 - Added new VIs: RSZVB Configure Harmonic Measurement.vi RSZVB Get Harmonic Measurement State.vi RSZVB Get Harmonic Order.vi RSZVB Get Harmonic Receive Port.vi RSZVB Get Harmonic Relative State.vi

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		RSZVB Get Harmonic Source Port.vi RSZVB Set Harmonic Measurement State.vi RSZVB Set Harmonic Order.vi RSZVB Set Harmonic Receive Port.vi RSZVB Set Harmonic Relative State.vi RSZVB Set Harmonic Source Port.vi
1.1	02/2005	Modifications: Driver update for **Time Domain Measurement** and **ZVT support** Port checking fixed in many functions. new VIs (option ZVAB-K2): - RSZVB Select More Ratios With Detector.vi - RSZVB Select More Wave Quantities With Detector.vi - RSZVB Calculate Harmonic Grid.vi - RSZVB Extrapolate DC Value.vi - RSZVB Get Continuous Extrapolation.vi - RSZVB Get DC Value.vi - RSZVB Get Time Domain Center Time.vi - RSZVB Get Time Domain Start Time.vi - RSZVB Get Time Domain Stop Time.vi - RSZVB Get Time Domain Time Axis Scaling.vi - RSZVB Get Time Domain Time Span.vi - RSZVB Get Time Domain Transformation Filter.vi - RSZVB Get Time Domain Transformation Sideband Suppression.vi - RSZVB Get Time Domain Transformation Type.vi - RSZVB Get Time Gate Center Time.vi - RSZVB Get Time Gate Filter.vi - RSZVB Get Time Gate Sideband Suppression.vi - RSZVB Get Time Gate Start Time.vi - RSZVB Get Time Gate State.vi - RSZVB Get Time Gate Stop Time.vi - RSZVB Get Time Gate Type.vi - RSZVB Get Trace Transform Domain.vi - RSZVB Set Continuous Extrapolation.vi - RSZVB Set DC Value.vi - RSZVB Set Harmonic Grid and Keep.vi - RSZVB Set Time Domain Center Time.vi - RSZVB Set Time Domain Start Time.vi - RSZVB Set Time Domain Stop Time.vi - RSZVB Set Time Domain Time Axis Scaling.vi - RSZVB Set Time Domain Time Span.vi - RSZVB Set Time Domain Transformation Filter.vi - RSZVB Set Time Domain Transformation Sideband Suppression.vi - RSZVB Set Time Domain Transformation Type.vi - RSZVB Set Time Gate Center Time.vi - RSZVB Set Time Gate Filter.vi - RSZVB Set Time Gate Sideband Suppression.vi - RSZVB Set Time Gate Start Time.vi - RSZVB Set Time Gate State.vi - RSZVB Set Time Gate Stop Time.vi - RSZVB Set Time Gate Type.vi - RSZVB Set Trace Transform Domain.vi
1.0.2	12/2004	Modifications: Bugfixing and code maintenance: - RSZVB File Catalog.vi - Help tags for all VIs changed
1.0.1	10/2004	Modifications: Added VXI-11 support
1.0	09/2004	Initial version.

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Rohde & Schwarz is an independent group of companies specializing in electronics. It is a leading supplier of solutions in the fields of test and measurement, broadcasting, radiomonitoring and radiolocation, as well as secure communications. Established more than 80 years ago, Rohde & Schwarz has a global presence and a dedicated service network in over 70 countries. Company headquarters are in Munich, Germany.

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