

Driver history for R&S®UPV and R&S®UPP200/400/800 Audio Analyzer Driver Documentation

Products:

- | R&S®UPV
- | R&S®UPP200/400/800

Driver history for IVI-COM, LabVIEW,
LabWindows/CVI and VXIplug&play driver
for C#, C/C++, Visual Basic .NET, VEE,
etc.

Table of Contents

1	LabVIEW	3
2	LabWindows/CVI and VXIplug&play	19
3	Driver history for IVI-COM driver	37

1 LabVIEW

Driver history for LabVIEW		
Revision	Date	Note
3.3.0	01/2012	<p>Modifications:</p> <p>New:</p> <ul style="list-style-type: none"> RSUPV Set Digital Generator Channels.vi RSUPV Get Digital Generator Channels.vi RSUPV Set HDMI Generator Audio Format.vi RSUPV Get HDMI Generator Audio Format.vi RSUPV Set HDMI Generator Audio Sink ARC.vi RSUPV Get HDMI Generator Audio Sink ARC.vi RSUPV Get HDMI Generator Audio Info Frame.vi RSUPV Set HDMI Generator Channels Mode.vi RSUPV Get HDMI Generator Channels Mode.vi RSUPV Get HDMI Generator Video Format No.vi RSUPV Set HDMI Generator Video Color Depth.vi RSUPV Get HDMI Generator Video Color Depth.vi RSUPV Set HDMI Generator Video Content.vi RSUPV Get HDMI Generator Video Content.vi RSUPV Get HDMI Generator Video Color String.vi RSUPV Get HDMI Generator Video AVI.vi RSUPV Get HDMI Generator Video SPD.vi RSUPV Get HDMI Generator Video E-EDID.vi RSUPV Get HDMI Generator Video CEC.vi RSUPV Set HDMI Generator Video Format Frequency.vi RSUPV Get HDMI Generator Video Format Frequency.vi RSUPV Set HDMI Generator Video Format Resolution.vi RSUPV Get HDMI Generator Video Format Resolution.vi RSUPV Set HDMI Generator Video Source.vi RSUPV Get HDMI Generator Video Source.vi RSUPV Set Generator DC Offset Channel Value.vi RSUPV Get Generator DC Offset Channel Value.vi RSUPV Set Generator DC Offset Coupling.vi RSUPV Get Generator DC Offset Coupling.vi RSUPV Set Generator Equalizer Coupling.vi RSUPV Get Generator Equalizer Coupling.vi RSUPV Set Generator Stereo Channel Filter Coupling.vi RSUPV Get Generator Stereo Channel Filter Coupling.vi RSUPV Set Generator Stereo Channel Filter.vi RSUPV Get Generator Stereo Channel Filter.vi

Driver history for LabVIEW		
Revision	Date	Note
		RSUPV Set Generator Stereo Equalizer.vi
		RSUPV Get Generator Stereo Equalizer.vi
		RSUPV Set Generator Stereo Equalizer File.vi
		RSUPV Set Generator Multichannel Filter.vi
		RSUPV Get Generator Multichannel Filter.vi
		RSUPV Set Generator Multichannel All Chan Sine.vi
		RSUPV Get Generator Multichannel All Chan Sine.vi
		RSUPV Set Generator Multichannel Gain.vi
		RSUPV Get Generator Multichannel Gain
		RSUPV Set Generator Multichannel Limit To FS.vi
		RSUPV Get Generator Multichannel Limit To FS.vi
		RSUPV Set Generator Multichannel Total Gain.vi
		RSUPV Get Generator Multichannel Total Gain.vi
		RSUPV Set Generator Multichannel Sine.vi
		RSUPV Get Generator Multichannel Sine.vi
		RSUPV Set Generator Multichannel Sine Frequency.vi
		RSUPV Get Generator Multichannel Sine Frequency.vi
		RSUPV Set Generator Multichannel Sine Phase.vi
		RSUPV Get Generator Multichannel Sine Phase.vi
		RSUPV Set Generator Multichannel Sine Voltage.vi
		RSUPV Get Generator Multichannel Sine Voltage.vi
		RSUPV Set Generator Multichannel Sine Arbitrary.vi
		RSUPV Get Generator Multichannel Sine Arbitrary
		RSUPV Set Generator Multichannel Sine Arbitrary Filename.vi
		RSUPV Set Generator Multichannel Sine Volt Peak.vi
		RSUPV Get Generator Multichannel Sine Volt Peak.vi
		RSUPV Set Generator Multichannel Sine Equalizer.vi
		RSUPV Get Generator Multichannel Sine Equalizer.vi
		RSUPV Set Generator Multichannel Sine Equalizer Filename.vi
		RSUPV Set Generator Multichannel DC Offset.vi
		RSUPV Get Generator Multichannel DC Offset.vi
		RSUPV Set Generator Multichannel DC Offset Value.vi
		RSUPV Get Generator Multichannel DC Offset Value.vi
		RSUPV Set Generator Single Channel Track To Other Channel.vi
		RSUPV Get Generator Single Channel Track To Other Channel.vi
		RSUPV Set Generator Single Channel.vi
		RSUPV Get Generator Single Channel.vi
		RSUPV Set Generator All Channel Sine.vi
		RSUPV Get Generator All Channel Sine.vi
		RSUPV Set Generator Sine Frequency.vi
		RSUPV Get Generator Sine Frequency.vi
		RSUPV Set Generator Sine Voltage.vi

Driver history for LabVIEW		
Revision	Date	Note
		RSUPV Get Generator Sine Voltage.vi
		RSUPV Set Multichannel Analyzer Impedance Channel.vi
		RSUPV Get Multichannel Analyzer Impedance Channel.vi
		RSUPV Set Multichannel Analyzer Channel Input Impedance.vi
		RSUPV Get Multichannel Analyzer Channel Input Impedance.vi
		RSUPV Set HDMI Analyzer Audio Input.vi
		RSUPV Get HDMI Analyzer Audio Input.vi
		RSUPV Set HDMI Analyzer Audio Format.vi
		RSUPV Get HDMI Analyzer Audio Format.vi
		RSUPV Set HDMI Analyzer Audio Coding.vi
		RSUPV Get HDMI Analyzer Audio Coding.vi
		RSUPV Get HDMI Analyzer Audio Detected.vi
		RSUPV Get HDMI Analyzer Audio N Parameter.vi
		RSUPV Get HDMI Analyzer Audio CTS Parameter.vi
		RSUPV Set HDMI Analyzer Audio Channel.vi
		RSUPV Get HDMI Analyzer Audio Channel.vi
		RSUPV Set HDMI Analyzer Audio Meas Channel State.vi
		RSUPV Get HDMI Analyzer Audio Meas Channel State.vi
		RSUPV Get HDMI Analyzer Audio Info Frame.vi
		RSUPV Get HDMI Analyzer Video Format No.vi
		RSUPV Get HDMI Analyzer Video Color Depth.vi
		RSUPV Get HDMI Analyzer Video HDCP State.vi
		RSUPV Get HDMI Analyzer Video Timings.vi
		RSUPV Get HDMI Analyzer Video AVI.vi
		RSUPV Get HDMI Analyzer Video SPD.vi
		RSUPV Get HDMI Analyzer Video E-EDID
		RSUPV Set Dig Bitstream Analyzer Clock Source.vi
		RSUPV Get Dig Bitstream Analyzer Clock Source.vi
		RSUPV Set Dig Bitstream Analyzer Channel Mode.vi
		RSUPV Get Dig Bitstream Analyzer Channel Mode.vi
		RSUPV Set Dig Bitstream Analyzer Alignment.vi
		RSUPV Get Dig Bitstream Analyzer Alignment.vi
		RSUPV Set Dig Bitstream Analyzer Clock Frequency.vi
		RSUPV Get Dig Bitstream Analyzer Clock Frequency.vi
		RSUPV Set Dig Bitstream Analyzer Duty Cycle.vi
		RSUPV Get Dig Bitstream Analyzer Duty Cycle.vi
		RSUPV Set Dig Bitstream Analyzer Down Sampling Factor.vi
		RSUPV Get Dig Bitstream Analyzer Down Sampling Factor.vi
		RSUPV Set Analyzer Refinement.vi
		RSUPV Get Analyzer Refinement.vi
		RSUPV Set Analyzer FFT Max Size.vi
		RSUPV Get Analyzer FFT Max Size.vi

Driver history for LabVIEW		
Revision	Date	Note
		RSUPV Set Analyzer POLQA Band.vi RSUPV Get Analyzer POLQA Band.vi RSUPV Set Analyzer POLQA Measurement Mode.vi RSUPV Get Analyzer POLQA Measurement Mode.vi RSUPV Set Analyzer POLQA Gain.vi RSUPV Get Analyzer POLQA Gain.vi RSUPV Get Analyzer POLQA Reference Level.vi RSUPV Get Analyzer POLQA Deg Level.vi RSUPV Get Analyzer POLQA Attenuation.vi RSUPV Get Analyzer POLQA SNR Ref.vi RSUPV Get Analyzer POLQA SNR Degraded.vi RSUPV Get Analyzer POLQA Ref Sp Ratio.vi RSUPV Get Analyzer POLQA Deg Sp Ratio.vi RSUPV Get Analyzer POLQA Min Delay.vi RSUPV Get Analyzer POLQA Max Delay.vi RSUPV Set Lip Sync Analysis Active Color High.vi RSUPV Get Lip Sync Analysis Active Color High.vi RSUPV Set Lip Sync Analysis Active Color Low.vi RSUPV Get Lip Sync Analysis Active Color Low.vi RSUPV Set Lip Sync Analysis Active Pattern Color.vi RSUPV Get Lip Sync Analysis Active Pattern Color.vi RSUPV Set Lip Sync Analysis Mute Pattern Color.vi RSUPV Get Lip Sync Analysis Mute Pattern Color.vi RSUPV Set Lip Sync Analysis Audio Trigger Threshold.vi RSUPV Get Lip Sync Analysis Audio Trigger Threshold.vi RSUPV Set Switcher Connection.vi RSUPV Get Switcher Connection.vi RSUPV Set Display Max Channels.vi RSUPV Get Display Max Channels.vi RSUPV Configure HDMI Generator Audio.vi RSUPV Configure HDMI Generator Video.vi RSUPV Configure HDMI AnalyzerAudio.vi RSUPV Configure Dig Bitstream Analyzer.vi Updated: RSUPV Set Analyzer Function.vi RSUPV Get Analyzer Function.vi RSUPV Set Analyzer Instrument.vi RSUPV Get Analyzer Instrument.vi RSUPV Configure Generator Digital.vi RSUPV Set Digital Generator Channel Mode.vi RSUPV Get Digital Generator Channel Mode.vi RSUPV Set Digital Generator Sync To.vi

Driver history for LabVIEW		
Revision	Date	Note
		RSUPV Get Digital Generator Sync To.vi RSUPV Set Generator Function.vi RSUPV Get Generator Function.vi RSUPV Set USI Analyzer Sync To.vi RSUPV Get USI Analyzer Sync To.vi RSUPV Set USI Analyzer First Bit.vi RSUPV Get USI Analyzer First Bit.vi RSUPV Set Switcher Port.vi RSUPV Get Switcher Port.vi RSUPV Configure Audio Monitoring.vi RSUPV Set Aux Signal Source.vi RSUPV Get Aux Signal Source.vi RSUPV Set Protocol Analysis Display Mode.vi RSUPV Get Protocol Analysis Display Mode.vi RSUPV Set Protocol Analysis Highlight.vi RSUPV Get Protocol Analysis Highlight.vi RSUPV Set Protocol Analysis Persistence.vi RSUPV Get Protocol Analysis Persistence.vi RSUPV Set Protocol Analysis View Mode.vi RSUPV Get Protocol Analysis View Mode.vi
3.1.2	12/2010	Modifications: - Option query does not fail on UPP without any option. However, if you have UPV without K4, you will no longer get error message. Both UPP with remote-control and without any option and UPV without remote control, return same response for *OPT? - Fixed rsupv.h - added missing visa.h
3.1.1	08/2010	Modifications: Fixed LabVIEW installer
3.1.0	08/2010	Driver for UPV firmware version 3.1.0 Added support for R&S@UPP200/400/800 Audio Analyzer Modifications: New VIs: Analyzer Trigger Settling Analyzer Function Settling External Sweep FFT Analysis Equalizer FFT Analysis Frequency Limit RSUPV Set Digital Generator Balanced Impedance.vi RSUPV Get Digital Generator Balanced Impedance.vi RSUPV Set Digital Generator Unbalanced Impedance.vi RSUPV Get Digital Generator Unbalanced Impedance.vi RSUPV Get I2S Generator BCk Frequency.vi

Driver history for LabVIEW		
Revision	Date	Note
		<p>RSUPV Set Generator Sweep Halt.vi RSUPV Get Generator Sweep Halt.vi RSUPV Set Generator Play Restart.vi RSUPV Get Generator Play Restart.vi RSUPV Set Analyzer SN Sequence State.vi RSUPV Get Analyzer SN Sequence State.vi RSUPV Set Analyzer FFT Triggered State.vi RSUPV Get Analyzer FFT Triggered State.vi RSUPV Set Aux Speaker Monitor.vi RSUPV Get Aux Speaker Monitor.vi RSUPV Set Switcher Port.vi RSUPV Get Switcher Port.vi RSUPV Set Display Invert Equ.vi RSUPV Get Display Invert Equ.vi RSUPV Set Status Register.vi RSUPV Get Status Register.vi Updated VIs: RSUPV Configure Generator Analog.vi, RSUPV Set Generator Impedance.vi, RSUPV Get Generator Impedance.vi - added new impedance value RSUPV Set Generator Bandwidth.vi, RSUPV Get Generator Bandwidth.vi - added new bandwidth values RSUPV Configure Generator Digital.vi, RSUPV Set Digital Generator Sync To.vi, RSUPV Get Digital Generator Sync To.vi - added new Sync To options RSUPV Set Generator Sweep X Axis.vi, RSUPV Get Generator Sweep X Axis.vi - added new axis options RSUPV Set Analyzer Channel Input Impedance.vi, RSUPV Get Analyzer Channel Input Impedance.vi - added new impedance values RSUPV Set Digital Analyzer Audio Input.vi, RSUPV Get Digital Analyzer Audio Input.vi - added new audio input options RSUPV Set I2S Analyzer Sample Frequency.vi, RSUPV Get I2S Analyzer Sample Frequency.vi - new sample frequencies added RSUPV Set Analyzer Level Meas Time.vi, RSUPV Get Analyzer Level Meas Time.vi - added new measurement time values RSUPV Set Analyzer Level DC Meas Time.vi, RSUPV Get Analyzer Level DC Meas Time.vi - added new measurement time values RSUPV Get Analyzer PEAQ Model.vi - bugfix RSUPV Set Analyzer Waveform Monitor Trigger Source.vi, RSUPV Get Analyzer Waveform Monitor Trigger Source.vi - new trigger sources added RSUPV Set Analyzer Combined Measurement.vi, RSUPV Get Analyzer Combined Measurement.vi - new measurements added RSUPV Set Display Unit.vi, RSUPV Get Display Unit.vi, RSUPV Set Analyzer Unit.vi, RSUPV Get Analyzer Unit.vi, RSUPV Set Analyzer Frequency Unit.vi, RSUPV Get Analyzer Frequency Unit.vi - new units added RSUPV Set Analyzer Frequency Phase Reference.vi, RSUPV Get Analyzer Frequency Phase Reference.vi - new reference added</p>

Driver history for LabVIEW		
Revision	Date	Note
2.6.1	09/2009	<p>Modifications:</p> <p>Updated VIs:</p> <ul style="list-style-type: none"> - RSUPV Get USI Generator Tx Data.vi - fixed string allocation - RSUPV Get Display Legend.vi - fixed string allocation - RSUPV Get USI Analyzer Slots.vi - fixed string allocation - RSUPV Get Display Axis Label User String.vi - fixed string allocation
2.6.0	08/2009	<p>Driver for UPV firmware version 2.6</p> <p>Initial Release for Linux, support for:</p> <ul style="list-style-type: none"> - Mandriva Linux 2008 and Mandriva Linux 2009 - openSUSE 10.3 and openSUSE 11.0 <p>Updated VIs:</p> <ul style="list-style-type: none"> - RSUPV Set Generator Function.vi, RSUPV Get Generator Function.vi - added new function - RSUPV Set Analyzer Function.vi, RSUPV Get Analyzer Function.vi - added new function - RSUPV Set Protocol Generator Coding Mode.vi, RSUPV Get Protocol Generator Coding Mode.vi - added new mode <p>New VIs:</p> <ul style="list-style-type: none"> - Audio Quality Measurement - RSUPV Set Protocol Generator Coding File.vi
2.4.2	11/2008	<p>Modified functions (command removed - SYST:COMM:GPIB:LTER):</p> <p>RSUPV Store Memory Data Binary.vi RSUPV Read To File From Instrument.vi RSUPV Write From File To Instrument.vi RSUPV Start Write Huge File To Instrument.vi RSUPV Continue Write Huge File To Instrument.vi RSUPV Get Display Axis Label User String.vi RSUPV Get Display Legend.vi RSUPV Get USI Analyzer Slots.vi RSUPV Get USI Generator Tx Data.vi</p>
2.4.1	10/2008	<p>Driver for UPV firmware version 2.4</p> <p>New VIs:</p> <ul style="list-style-type: none"> - RSUPV Read To File From Instrument.vi - RSUPV Write From File To Instrument.vi - RSUPV Start Write Huge File To Instrument.vi - RSUPV Continue Write Huge File To Instrument.vi
2.4.0	08/2008	Driver update for UPV firmware version 2.4

Driver history for LabVIEW		
Revision	Date	Note
		<p>New Features:</p> <ul style="list-style-type: none"> - Added Analog 8 Channel option - Added Analog 16 Channel option - Added USI Dual Channel option - Added USI 8 Channel option - Added Speech Quality Measurements (PESQ) <p>- Modified VIs:</p> <ul style="list-style-type: none"> • RSUPV Configure Generator Digital.vi - removed argument Source Mode • RSUPV Set Analyzer Instrument.vi, RSUPV Get Analyzer Instrument - added new instrument types (Analog Multichannel and USI instruments) • RSUPV Set Analyzer Channel Input Range.vi, RSUPV Set Analyzer Channel Input Range.vi, RSUPV Set Analyzer Channel Input Range Value.vi, RSUPV Get Analyzer Channel Input Range Value.vi - range of Channel is now 1 to 16 • RSUPV Set Analyzer FFT Avg Count.vi - changed range • RSUPV Set Analyzer Waveform Monitor Trigger Source.vi, RSUPV Get Analyzer Waveform Monitor Trigger Source.vi, RSUPV Set Analyzer Record Trigger Source.vi, RSUPV Get Analyzer Record Trigger Source.vi - added Gen Burst • RSUPV Set Generator Filter.vi, RSUPV Get Generator Filter.vi, RSUPV Set Analyzer Prefilter.vi, RSUPV Get Analyzer Prefilter.vi, RSUPV Set Analyzer Filter.vi, RSUPV Get Analyzer Filter.vi - added AES 17 and C Weighting • RSUPV Set Measurement Mode.vi, RSUPV Get Measurement Mode.vi - added Wait • RSUPV Set Generator Instrument.vi, RSUPV Get Generator Instrument.vi - added USI Dual Chan instrument <p>- New VIs:</p> <ul style="list-style-type: none"> • RSUPV Set Generator Output State.vi, RSUPV Get Generator Output State.vi • RSUPV Set Analyzer FFT Undersample State.vi, RSUPV Get Analyzer FFT Undersample State.vi • RSUPV Set Analyzer FFT Comp Factor.vi, RSUPV Get Analyzer FFT Comp Factor.vi • RSUPV Set Display Normalization.vi, RSUPV Get Display Normalization.vi • RSUPV Set Display Normalize Value.vi, RSUPV Get Display Normalize Value.vi • RSUPV Get Protocol Analysis Error.vi • RSUPV Set Display Cursor Move To.vi • RSUPV Set Measurement Timeout.vi, RSUPV Get Measurement Timeout.vi • RSUPV Read Measurement Result Min Max.vi • RSUPV Read Axis Data.vi • RSUPV Read Axis Data Count.vi • RSUPV Set Hardcopy Size.vi, RSUPV Get Hardcopy Size.vi • RSUPV Set Window Style.vi, RSUPV Get Window Style.vi
1.4.0	03/2007	<p>Driver update for UPV firmware version 1.4</p> <p>Added support for USB interface</p>

Driver history for LabVIEW		
Revision	Date	Note
		<p>- New VIs:</p> <p>RSUPV Set Digital Generator Add Impairment.vi</p> <p>RSUPV Get Digital Generator Add Impairment.vi</p> <p>RSUPV Configure Generator I2S.vi</p> <p>RSUPV Set I2S Generator Sync To.vi</p> <p>RSUPV Get I2S Generator Sync To.vi</p> <p>RSUPV Set I2S Generator Word Length.vi</p> <p>RSUPV Get I2S Generator Word Length.vi</p> <p>RSUPV Set I2S Generator Sample Frequency.vi</p> <p>RSUPV Get I2S Generator Sample Frequency.vi</p> <p>RSUPV Set I2S Generator MClk Ratio.vi</p> <p>RSUPV Get I2S Generator MClk Ratio.vi</p> <p>RSUPV Set I2S Generator Audio Bits.vi</p> <p>RSUPV Get I2S Generator Audio Bits.vi</p> <p>RSUPV Set I2S Generator Format.vi</p> <p>RSUPV Get I2S Generator Format.vi</p> <p>RSUPV Set I2S Generator Fsync Shape.vi</p> <p>RSUPV Get I2S Generator Fsync Shape.vi</p> <p>RSUPV Set I2S Generator Fsync Polarity.vi</p> <p>RSUPV Get I2S Generator Fsync Polarity.vi</p> <p>RSUPV Set I2S Generator Word Offset.vi</p> <p>RSUPV Get I2S Generator Word Offset.vi</p> <p>RSUPV Set Generator Phase File.vi</p> <p>RSUPV Set Generator Play Scale Pk To FS.vi</p> <p>RSUPV Get Generator Play Scale Pk To FS.vi</p> <p>RSUPV Set Generator Play Channel.vi</p> <p>RSUPV Get Generator Play Channel.vi</p> <p>RSUPV Set Generator Play Mode.vi</p> <p>RSUPV Get Generator Play Mode.vi</p> <p>RSUPV Set Generator Play Time.vi</p> <p>RSUPV Get Generator Play Time.vi</p> <p>RSUPV Set Generator Play Shape File.vi</p> <p>RSUPV Set Generator Play Analyzer Loop Channel.vi</p> <p>RSUPV Get Generator Play Analyzer Loop Channel.vi</p> <p>RSUPV Set Generator Play Analyzer Loop Gain.vi</p> <p>RSUPV Get Generator Play Analyzer Loop Gain.vi</p> <p>RSUPV Set Generator Amplitude Variation.vi</p> <p>RSUPV Get Generator Amplitude Variation.vi</p> <p>RSUPV Set Generator AV Modulation Frequency.vi</p> <p>RSUPV Get Generator AV Modulation Frequency.vi</p> <p>RSUPV Set Generator Variation.vi</p> <p>RSUPV Get Generator Variation.vi</p>

Driver history for LabVIEW		
Revision	Date	Note
		RSUPV Set I2S Analyzer Word Length.vi
		RSUPV Get I2S Analyzer Word Length.vi
		RSUPV Set I2S Analyzer Format.vi
		RSUPV Get I2S Analyzer Format.vi
		RSUPV Set I2S Analyzer Fsync Slope.vi
		RSUPV Get I2S Analyzer Fsync Slope.vi
		RSUPV Set I2S Analyzer Word Offset.vi
		RSUPV Get I2S Analyzer Word Offset.vi
		RSUPV Set I2S Analyzer Input.vi
		RSUPV Get I2S Analyzer Input.vi
		RSUPV Set I2S Analyzer Channel Mode.vi
		RSUPV Get I2S Analyzer Channel Mode.vi
		RSUPV Set I2S Analyzer Sample Frequency.vi
		RSUPV Get I2S Analyzer Sample Frequency.vi
		RSUPV Set Analyzer Level Meas Bandwidth.vi
		RSUPV Get Analyzer Level Meas Bandwidth.vi
		RSUPV Set Analyzer Level Meas Bandwidth Value.vi
		RSUPV Get Analyzer Level Meas Bandwidth Value.vi
		RSUPV Set Analyzer Level Meas Frequency Mode.vi
		RSUPV Get Analyzer Level Meas Frequency Mode.vi
		RSUPV Set Analyzer Level Meas Frequency Value.vi
		RSUPV Get Analyzer Level Meas Frequency Value.vi
		RSUPV Set Analyzer Level Meas Frequency Factor.vi
		RSUPV Get Analyzer Level Meas Frequency Factor.vi
		RSUPV Set Analyzer Level Meas Frequency Start.vi
		RSUPV Get Analyzer Level Meas Frequency Start.vi
		RSUPV Set Analyzer Level Meas Frequency Stop.vi
		RSUPV Get Analyzer Level Meas Frequency Stop.vi
		RSUPV Set Analyzer Level DC Meas Time.vi
		RSUPV Get Analyzer Level DC Meas Time.vi
		RSUPV Set Analyzer Bargraph State.vi
		RSUPV Get Analyzer Bargraph State.vi
		RSUPV Set Analyzer Waveform Monitor Meas Mode.vi
		RSUPV Get Analyzer Waveform Monitor Meas Mode.vi
		RSUPV Set Analyzer Waveform Monitor Compression Factor.vi
		RSUPV Get Analyzer Waveform Monitor Compression Factor.vi
		RSUPV Set Analyzer Waveform Monitor Trace Length.vi
		RSUPV Get Analyzer Waveform Monitor Trace Length.vi
		RSUPV Set Analyzer Waveform Monitor Trigger Source.vi
		RSUPV Get Analyzer Waveform Monitor Trigger Source.vi
		RSUPV Set Analyzer Waveform Monitor Trigger Level.vi
		RSUPV Get Analyzer Waveform Monitor Trigger Level.vi

Driver history for LabVIEW		
Revision	Date	Note
		RSUPV Set Analyzer Waveform Monitor Trigger Slope.vi
		RSUPV Get Analyzer Waveform Monitor Trigger Slope.vi
		RSUPV Set Analyzer Waveform Monitor Pretrigger.vi
		RSUPV Get Analyzer Waveform Monitor Pretrigger.vi
		RSUPV Set Analyzer Waveform Monitor Autotrigger.vi
		RSUPV Get Analyzer Waveform Monitor Autotrigger.vi
		RSUPV Set Analyzer SN Meas Mode.vi
		RSUPV Get Analyzer SN Meas Mode.vi
		RSUPV Set Analyzer SN Meas Time.vi
		RSUPV Get Analyzer SN Meas Time.vi
		RSUPV Set Analyzer NOCT Meas Mode.vi
		RSUPV Get Analyzer NOCT Meas Mode.vi
		RSUPV Set Analyzer Record File.vi
		RSUPV Set Analyzer Record Length.vi
		RSUPV Get Analyzer Record Length.vi
		RSUPV Get Analyzer Record File Length.vi
		RSUPV Set Analyzer Record Trigger Source.vi
		RSUPV Get Analyzer Record Trigger Source.vi
		RSUPV Set Analyzer Record Trigger Level.vi
		RSUPV Get Analyzer Record Trigger Level.vi
		RSUPV Set Analyzer Record Trigger Slope.vi
		RSUPV Get Analyzer Record Trigger Slope.vi
		RSUPV Set Analyzer Record Pretrigger.vi
		RSUPV Get Analyzer Record Pretrigger.vi
		RSUPV Set Protocol Analysis State.vi
		RSUPV Get Protocol Analysis State.vi
		RSUPV Set Protocol Analysis Display State.vi
		RSUPV Get Protocol Analysis Display State.vi
		RSUPV Set Protocol Analysis Display Mode.vi
		RSUPV Get Protocol Analysis Display Mode.vi
		RSUPV Set Protocol Analysis Highlight.vi
		RSUPV Get Protocol Analysis Highlight.vi
		RSUPV Set Protocol Analysis Persistence.vi
		RSUPV Get Protocol Analysis Persistence.vi
		RSUPV Set Protocol Analysis View Mode.vi
		RSUPV Get Protocol Analysis View Mode.vi
		RSUPV Get Protocol Analysis Channel Byte.vi
		RSUPV Set Aux Audio Monitor.vi
		RSUPV Get Aux Audio Monitor.vi
		RSUPV Set Aux Phone State.vi
		RSUPV Get Aux Phone State.vi
		RSUPV Set Aux Phone Permanent State.vi

Driver history for LabVIEW		
Revision	Date	Note
		RSUPV Get Aux Phone Permanent State.vi
		RSUPV Set Aux Trigger Input Enable.vi
		RSUPV Get Aux Trigger Input Enable.vi
		RSUPV Set Aux Trigger Input Mode.vi
		RSUPV Get Aux Trigger Input Mode.vi
		RSUPV Set Aux Trigger Input Edge.vi
		RSUPV Get Aux Trigger Input Edge.vi
		RSUPV Set Aux Trigger Output Enable.vi
		RSUPV Get Aux Trigger Output Enable.vi
		RSUPV Set Aux Trigger Output Mode.vi
		RSUPV Get Aux Trigger Output Mode.vi
		RSUPV Set Aux Trigger Output Frequency.vi
		RSUPV Get Aux Trigger Output Frequency.vi
		RSUPV Set Aux Trigger Output Edge.vi
		RSUPV Get Aux Trigger Output Edge.vi
		RSUPV Set Switcher State.vi
		RSUPV Get Switcher State.vi
		RSUPV Set Switcher Tracking.vi
		RSUPV Get Switcher Tracking.vi
		RSUPV Set Switcher Offset.vi
		RSUPV Get Switcher Offset.vi
		RSUPV Set Switcher Input.vi
		RSUPV Get Switcher Input.vi
		RSUPV Set Switcher Output.vi
		RSUPV Get Switcher Output.vi
		RSUPV Set Protocol Generator Coding Mode.vi
		RSUPV Get Protocol Generator Coding Mode.vi
		RSUPV Set Protocol Generator CRC.vi
		RSUPV Get Protocol Generator CRC.vi
		RSUPV Set Protocol Generator Validity.vi
		RSUPV Get Protocol Generator Validity.vi
		RSUPV Set Protocol Generator All Bits To Zero.vi
		RSUPV Set Protocol Generator Channel Byte.vi
		RSUPV Get Protocol Generator Channel Byte.vi
		RSUPV Set Protocol Generator Channels.vi
		RSUPV Get Protocol Generator Channels.vi
		RSUPV Set Display Data List Filter.vi
		RSUPV Get Display Data List Filter.vi
		RSUPV Set Display Scan Offset.vi
		RSUPV Get Display Scan Offset.vi
		RSUPV Set Display Sweep Y-Source.vi
		RSUPV Get Display Sweep Y-Source.vi

Driver history for LabVIEW		
Revision	Date	Note
		RSUPV Set Display FFT Graph Y-Source.vi
		RSUPV Get Display FFT Graph Y-Source.vi
		RSUPV Set Display Waveform Y-Source.vi
		RSUPV Get Display Waveform Y-Source.vi
		RSUPV Set Display Bargraph Y-Source.vi
		RSUPV Get Display Bargraph Y-Source.vi
		RSUPV Set Display Y-Source File.vi
		RSUPV Set Display Trace Update.vi
		RSUPV Get Display Trace Update.vi
		RSUPV Set Display Reference.vi
		RSUPV Get Display Reference.vi
		RSUPV Set Display Reference Value.vi
		RSUPV Get Display Reference Value.vi
		RSUPV Set Display Reference File.vi
		RSUPV Set Display Copy Reference Settings.vi
		RSUPV Get Display Copy Reference Settings.vi
		RSUPV Set Display Copy Scaling Settings.vi
		RSUPV Get Display Copy Scaling Settings.vi
		RSUPV Set Display Unit Function Track.vi
		RSUPV Get Display Unit Function Track.vi
		RSUPV Set Display Unit.vi
		RSUPV Get Display Unit.vi
		RSUPV Set Display Unit Auto.vi
		RSUPV Get Display Unit Auto.vi
		RSUPV Set Display Unit User String.vi
		RSUPV Get Display Unit User String.vi
		RSUPV Set Display Y-Axis Spacing.vi
		RSUPV Get Display Y-Axis Spacing.vi
		RSUPV Set Display Y-Axis Top.vi
		RSUPV Get Display Y-Axis Top.vi
		RSUPV Set Display Y-Axis Bottom.vi
		RSUPV Get Display Y-Axis Bottom.vi
		RSUPV Set Display Copy Limit Settings.vi
		RSUPV Get Display Copy Limit Settings.vi
		RSUPV Set Display Limit State.vi
		RSUPV Get Display Limit State.vi
		RSUPV Set Display Limit Source.vi
		RSUPV Get Display Limit Source.vi
		RSUPV Set Display Limit Source Value.vi
		RSUPV Get Display Limit Source Value.vi
		RSUPV Set Display Limit Source Filename.vi
		RSUPV Get Display Limit Source Filename.vi

Driver history for LabVIEW		
Revision	Date	Note
		RSUPV Set Display Limit Shift.vi
		RSUPV Get Display Limit Shift.vi
		RSUPV Set Display Limit Shift Parallel.vi
		RSUPV Get Display Limit Shift Parallel.vi
		RSUPV Set Display Limit Shift Symmetrical.vi
		RSUPV Get Display Limit Shift Symmetrical.vi
		RSUPV Set Display Sweep Graph X-Source.vi
		RSUPV Get Display Sweep Graph X-Source.vi
		RSUPV Set Display Sweep Graph X-Axis.vi
		RSUPV Get Display Sweep Graph X-Axis.vi
		RSUPV Set Display X-Axis Reference Value.vi
		RSUPV Get Display X-Axis Reference Value.vi
		RSUPV Set Display X-Axis Scaling.vi
		RSUPV Get Display X-Axis Scaling.vi
		RSUPV Set Display X-Axis Spacing.vi
		RSUPV Get Display X-Axis Spacing.vi
		RSUPV Set Display X-Axis Left.vi
		RSUPV Get Display X-Axis Left.vi
		RSUPV Set Display X-Axis Right.vi
		RSUPV Get Display X-Axis Right.vi
		RSUPV Set Display Cursor State.vi
		RSUPV Get Display Cursor State.vi
		RSUPV Set Display Cursor Mode.vi
		RSUPV Get Display Cursor Mode.vi
		RSUPV Get Display Cursor Amplitude.vi
		RSUPV Set Display Cursor Move To.vi
		RSUPV Set Display Cursor X Position.vi
		RSUPV Get Display Cursor X Position.vi
		RSUPV Set Display Cursor Y Position.vi
		RSUPV Get Display Cursor Y Position.vi
		RSUPV Set Display Cursor Movement.vi
		RSUPV Get Display Cursor Movement.vi
		RSUPV Set Display Marker Mode.vi
		RSUPV Get Display Marker Mode.vi
		RSUPV Set Display Marker Harmonics.vi
		RSUPV Get Display Marker Harmonics.vi
		RSUPV Set Display Marker Move To.vi
		RSUPV Set Display Marker X Position.vi
		RSUPV Get Display Marker X Position.vi
		RSUPV Set Display Store Trace As.vi
		RSUPV Get Display Store Trace As.vi
		RSUPV Set Display Trace Select.vi

Driver history for LabVIEW		
Revision	Date	Note
		RSUPV Get Display Trace Select.vi RSUPV Set Display Normalization Frequency.vi RSUPV Get Display Normalization Frequency.vi RSUPV Set Display Modify Equ.vi RSUPV Get Display Modify Equ.vi RSUPV Set Display Limit Offset.vi RSUPV Get Display Limit Offset.vi RSUPV Set Display Limit Offset Value.vi RSUPV Get Display Limit Offset Value.vi RSUPV Set Display Store Trace To File.vi RSUPV Get Display Store Trace To File.vi RSUPV Measurement Control.vi RSUPV Read Trace Data Sets.vi RSUPV Write Trace Data Sets.vi RSUPV Read Trace Data Set Count.vi RSUPV Read Trace Data List.vi RSUPV Read Trace Data List Count.vi RSUPV Set Hardcopy Source.vi RSUPV Get Hardcopy Source.vi RSUPV Set Hardcopy Destination.vi RSUPV Get Hardcopy Destination.vi RSUPV Set Hardcopy Orientation.vi RSUPV Get Hardcopy Orientation.vi RSUPV Set Hardcopy Store Mode.vi RSUPV Get Hardcopy Store Mode.vi RSUPV Set Hardcopy File Name.vi RSUPV Get Hardcopy File Name.vi RSUPV Set Hardcopy Header Footer State.vi RSUPV Get Hardcopy Header Footer State.vi RSUPV Set Hardcopy Define Header.vi RSUPV Get Hardcopy Define Header.vi RSUPV Set Hardcopy Define Footer.vi RSUPV Get Hardcopy Define Footer.vi RSUPV Hardcopy Immediate.vi RSUPV Set Memory String.vi RSUPV Get Memory String.vi RSUPV Store Memory Data Numeric.vi RSUPV Store Memory Data Binary.vi RSUPV Reset Memory Buffers.vi RSUPV System Shutdown.vi
1.0.2	02/2006	Modifications

Driver history for LabVIEW		
Revision	Date	Note
		- Changed help of rsupv_init() for LAN Interface
1.0.1	04/2005	Modifications - I/O conversion specification fixed: Input: "%le" Output: "%.12f" - System locale are set to default "C"
1.0	01/2005	Created.

2 LabWindows/CVI and VXIplug&play

Driver history for LabWindows/CVI and VXIplug&play driver for C#, C/C++, Visual Basic .NET, VEE, etc.		
Revision	Date	Note
3.3.0	01/2012	<p>Modifications:</p> <p>* New</p> <ul style="list-style-type: none"> rsupv_SetDigitalGeneratorChannels rsupv_GetDigitalGeneratorChannels rsupv_SetHDMIGeneratorAudioFormat rsupv_GetHDMIGeneratorAudioFormat rsupv_SetHDMIGeneratorAudioSinkARC rsupv_GetHDMIGeneratorAudioSinkARC rsupv_GetHDMIGeneratorAudioInfoFrame rsupv_SetHDMIGeneratorChannelsMode rsupv_GetHDMIGeneratorChannelsMode rsupv_GetHDMIGeneratorVideoFormatNo rsupv_SetHDMIGeneratorVideoColorDepth rsupv_GetHDMIGeneratorVideoColorDepth rsupv_SetHDMIGeneratorVideoContent rsupv_GetHDMIGeneratorVideoContent rsupv_GetHDMIGeneratorVideoColorString rsupv_GetHDMIGeneratorVideoAVI rsupv_GetHDMIGeneratorVideoSPD rsupv_GetHDMIGeneratorVideoEEDID rsupv_GetHDMIGeneratorVideoCEC rsupv_SetHDMIGeneratorVideoFormatFrequency rsupv_GetHDMIGeneratorVideoFormatFrequency rsupv_SetHDMIGeneratorVideoFormatResolution rsupv_GetHDMIGeneratorVideoFormatResolution rsupv_SetHDMIGeneratorVideoSource rsupv_GetHDMIGeneratorVideoSource rsupv_SetGeneratorDCOffsetChannelValue rsupv_GetGeneratorDCOffsetChannelValue rsupv_SetGeneratorDCOffsetCoupling rsupv_GetGeneratorDCOffsetCoupling rsupv_SetGeneratorEqualizerCoupling rsupv_GetGeneratorEqualizerCoupling rsupv_SetGeneratorStereoChannelFilterCoupling rsupv_GetGeneratorStereoChannelFilterCoupling rsupv_SetGeneratorStereoChannelFilter rsupv_GetGeneratorStereoChannelFilter

Driver history for LabWindows/CVI and VXIplug&play driver for C#, C/C++, Visual Basic .NET, VEE, etc.

Revision	Date	Note
		rsupv_SetGeneratorStereoEqualizer
		rsupv_GetGeneratorStereoEqualizer
		rsupv_SetGeneratorStereoEqualizerFile
		rsupv_SetGeneratorMultichannelFilter
		rsupv_GetGeneratorMultichannelFilter
		rsupv_SetGeneratorMultichannelAllChanSine
		rsupv_GetGeneratorMultichannelAllChanSine
		rsupv_SetGeneratorMultichannelGain
		rsupv_GetGeneratorMultichannelGain
		rsupv_SetGeneratorMultichannelLimitToFS
		rsupv_GetGeneratorMultichannelLimitToFS
		rsupv_SetGeneratorMultichannelTotalGain
		rsupv_GetGeneratorMultichannelTotalGain
		rsupv_SetGeneratorMultichannelSine
		rsupv_GetGeneratorMultichannelSine
		rsupv_SetGeneratorMultichannelSineFrequency
		rsupv_GetGeneratorMultichannelSineFrequency
		rsupv_SetGeneratorMultichannelSinePhase
		rsupv_GetGeneratorMultichannelSinePhase
		rsupv_SetGeneratorMultichannelSineVoltage
		rsupv_GetGeneratorMultichannelSineVoltage
		rsupv_SetGeneratorMultichannelSineArbitrary
		rsupv_GetGeneratorMultichannelSineArbitrary
		rsupv_SetGeneratorMultichannelSineArbitraryFilename
		rsupv_SetGeneratorMultichannelSineVoltPeak
		rsupv_GetGeneratorMultichannelSineVoltPeak
		rsupv_SetGeneratorMultichannelSineEqualizer
		rsupv_GetGeneratorMultichannelSineEqualizer
		rsupv_SetGeneratorMultichannelSineEqualizerFilename
		rsupv_SetGeneratorMultichannelDCOffset
		rsupv_GetGeneratorMultichannelDCOffset
		rsupv_SetGeneratorMultichannelDCOffsetValue
		rsupv_GetGeneratorMultichannelDCOffsetValue
		rsupv_SetGeneratorSingleChannelTrackToOtherChannel
		rsupv_GetGeneratorSingleChannelTrackToOtherChannel
		rsupv_SetGeneratorSingleChannel
		rsupv_GetGeneratorSingleChannel
		rsupv_SetGeneratorAllChannelSine
		rsupv_GetGeneratorAllChannelSine
		rsupv_SetGeneratorSineFrequency
		rsupv_GetGeneratorSineFrequency

Driver history for LabWindows/CVI and VXIplug&play driver for C#, C/C++, Visual Basic .NET, VEE, etc.

Revision	Date	Note
		rsupv_SetGeneratorSineVoltage rsupv_GetGeneratorSineVoltage rsupv_SetMultichannelAnalyzerImpedanceChannel rsupv_GetMultichannelAnalyzerImpedanceChannel rsupv_SetMultichannelAnalyzerChannelInputImpedance rsupv_GetMultichannelAnalyzerChannelInputImpedance rsupv_SetHDMIAnalyzerAudioInput rsupv_GetHDMIAnalyzerAudioInput rsupv_SetHDMIAnalyzerAudioFormat rsupv_GetHDMIAnalyzerAudioFormat rsupv_SetHDMIAnalyzerAudioCoding rsupv_GetHDMIAnalyzerAudioCoding rsupv_GetHDMIAnalyzerAudioDetected rsupv_GetHDMIAnalyzerAudioNParameter rsupv_GetHDMIAnalyzerAudioCTSPParameter rsupv_SetHDMIAnalyzerAudioChannel rsupv_GetHDMIAnalyzerAudioChannel rsupv_SetHDMIAnalyzerAudioMeasChannelState rsupv_GetHDMIAnalyzerAudioMeasChannelState rsupv_GetHDMIAnalyzerAudioInfoFrame rsupv_GetHDMIAnalyzerVideoFormatNo rsupv_GetHDMIAnalyzerVideoColorDepth rsupv_GetHDMIAnalyzerVideoHDCPState rsupv_GetHDMIAnalyzerVideoTimings rsupv_GetHDMIAnalyzerVideoAVI rsupv_GetHDMIAnalyzerVideoSPD rsupv_GetHDMIAnalyzerVideoEEDID rsupv_SetDigBitstreamAnalyzerClockSource rsupv_GetDigBitstreamAnalyzerClockSource rsupv_SetDigBitstreamAnalyzerChannelMode rsupv_GetDigBitstreamAnalyzerChannelMode rsupv_SetDigBitstreamAnalyzerAlignment rsupv_GetDigBitstreamAnalyzerAlignment rsupv_SetDigBitstreamAnalyzerClockFrequency rsupv_GetDigBitstreamAnalyzerClockFrequency rsupv_SetDigBitstreamAnalyzerDutyCycle rsupv_GetDigBitstreamAnalyzerDutyCycle rsupv_SetDigBitstreamAnalyzerDownSamplingFactor rsupv_GetDigBitstreamAnalyzerDownSamplingFactor rsupv_SetAnalyzerRefinement rsupv_GetAnalyzerRefinement

Driver history for LabWindows/CVI and VXIplug&play driver for C#, C/C++, Visual Basic .NET, VEE, etc.		
Revision	Date	Note
		rsupv_SetAnalyzerFFTMaxSize rsupv_GetAnalyzerFFTMaxSize rsupv_SetAnalyzerPOLQABand rsupv_GetAnalyzerPOLQABand rsupv_SetAnalyzerPOLQAMeasurementMode rsupv_GetAnalyzerPOLQAMeasurementMode rsupv_SetAnalyzerPOLQAGain rsupv_GetAnalyzerPOLQAGain rsupv_GetAnalyzerPOLQAReferenceLevel rsupv_GetAnalyzerPOLQADegLevel rsupv_GetAnalyzerPOLQAAttenuation rsupv_GetAnalyzerPOLQASNRRef rsupv_GetAnalyzerPOLQASNRDegraded rsupv_GetAnalyzerPOLQARefSpRatio rsupv_GetAnalyzerPOLQADegSpRatio rsupv_GetAnalyzerPOLQAMinDelay rsupv_GetAnalyzerPOLQAMaxDelay rsupv_SetLipSyncAnalysisActiveColorHigh rsupv_GetLipSyncAnalysisActiveColorHigh rsupv_SetLipSyncAnalysisActiveColorLow rsupv_GetLipSyncAnalysisActiveColorLow rsupv_SetLipSyncAnalysisActivePatternColor rsupv_GetLipSyncAnalysisActivePatternColor rsupv_SetLipSyncAnalysisMutePatternColor rsupv_GetLipSyncAnalysisMutePatternColor rsupv_SetLipSyncAnalysisAudioTriggerThreshold rsupv_GetLipSyncAnalysisAudioTriggerThreshold rsupv_SetSwitcherConnection rsupv_GetSwitcherConnection rsupv_SetDisplayMaxChannels rsupv_GetDisplayMaxChannels rsupv_ConfigureHDMIGeneratorAudio rsupv_ConfigureHDMIGeneratorVideo rsupv_ConfigureHDMIAnalyzerAudio rsupv_ConfigureDigBitstreamAnalyzer * Updated rsupv_SaveSetup - double quotes added to the file name rsupv_SetAnalyzerFunction rsupv_GetAnalyzerFunction rsupv_SetAnalyzerInstrument rsupv_GetAnalyzerInstrument

Driver history for LabWindows/CVI and VXIplug&play driver for C#, C/C++, Visual Basic .NET, VEE, etc.		
Revision	Date	Note
		rsupv_SetGeneratorInstrument rsupv_GetGeneratorInstrument rsupv_ConfigureGeneratorDigital rsupv_SetDigitalGeneratorChannelMode rsupv_GetDigitalGeneratorChannelMode rsupv_SetDigitalGeneratorSyncTo rsupv_GetDigitalGeneratorSyncTo rsupv_SetGeneratorFunction rsupv_GetGeneratorFunction rsupv_SetUSIAalyzerSyncTo rsupv_GetUSIAalyzerSyncTo rsupv_SetUSIAalyzerFirstBit rsupv_GetUSIAalyzerFirstBit rsupv_SetSwitcherPort rsupv_GetSwitcherPort rsupv_ConfigureAudioMonitoring rsupv_SetAuxSignalSource rsupv_GetAuxSignalSource rsupv_SetProtocolAnalysisDisplayMode rsupv_GetProtocolAnalysisDisplayMode rsupv_SetProtocolAnalysisHighlight rsupv_GetProtocolAnalysisHighlight rsupv_SetProtocolAnalysisPersistence rsupv_GetProtocolAnalysisPersistence rsupv_SetProtocolAnalysisViewMode rsupv_GetProtocolAnalysisViewMode
3.1.2	12/2010	Modifications: * Option query does not fail on UPP without any option. However, if you have UPV without K4, you will no longer get error message. Both UPP with remote-control and without any option and UPV without remote control, return same response for *OPT? * Fixed rsupv.h - added missing visa.h
3.1.0	08/2010	Driver for UPV firmware version 3.1.0 Added support for R&S@UPP200/400/800 Audio Analyzer Modifications: rsupv_ConfigureGeneratorAnalog, rsupv_SetGeneratorImpedance, rsupv_GetGeneratorImpedance - added new impedance value rsupv_SetGeneratorBandwidth, rsupv_GetGeneratorBandwidth - added new bandwidth values

Driver history for LabWindows/CVI and VXIplug&play driver for C#, C/C++, Visual Basic .NET, VEE, etc.		
Revision	Date	Note
		<p>rsupv_ConfigureGeneratorDigital, rsupv_SetDigitalGeneratorSyncTo, rsupv_GetDigitalGeneratorSyncTo - added new Sync To options rsupv_SetGeneratorSweepXAxis, rsupv_GetGeneratorSweepXAxis - added new axis options rsupv_SetAnalyzerChannelInputImpedance, rsupv_GetAnalyzerChannelInputImpedance - added new impedance values rsupv_SetDigitalAnalyzerAudioInput, rsupv_GetDigitalAnalyzerAudioInput - added new audio input options rsupv_SetI2SAnalyzerSampleFrequency, rsupv_GetI2SAnalyzerSampleFrequency - new sample frequencies added rsupv_SetAnalyzerLevelMeasTime, rsupv_GetAnalyzerLevelMeasTime - added new measurement time values rsupv_SetAnalyzerLevelDCMeasTime, rsupv_GetAnalyzerLevelDCMeasTime - added new measurement time values rsupv_GetAnalyzerPEAQModel - bugfix rsupv_SetAnalyzerWaveformMonitorTriggerSource, rsupv_GetAnalyzerWaveformMonitorTriggerSource - new trigger sources added rsupv_SetAnalyzerCombinedMeasurement, rsupv_GetAnalyzerCombinedMeasurement - new measurements added rsupv_SetDisplayUnit, rsupv_GetDisplayUnit, rsupv_SetAnalyzerUnit, rsupv_GetAnalyzerUnit, rsupv_SetAnalyzerFrequencyUnit, rsupv_GetAnalyzerFrequencyUnit - new units added rsupv_SetAnalyzerFrequencyPhaseReference, rsupv_GetAnalyzerFrequencyPhaseReference - new reference added</p> <p>* New functions Analyzer Trigger Settling Analyzer Function Settling External Sweep FFT Analysis Equalizer FFT Analysis Frequency Limit rsupv_SetDigitalGeneratorBalancedImpedance rsupv_GetDigitalGeneratorBalancedImpedance rsupv_SetDigitalGeneratorUnbalancedImpedance rsupv_GetDigitalGeneratorUnbalancedImpedance rsupv_GetI2SGeneratorBClkFrequency rsupv_SetGeneratorSweepHalt rsupv_GetGeneratorSweepHalt rsupv_SetGeneratorPlayRestart rsupv_GetGeneratorPlayRestart rsupv_SetAnalyzerSNSSequenceState rsupv_GetAnalyzerSNSSequenceState rsupv_SetAnalyzerFFTTriggeredState</p>

Driver history for LabWindows/CVI and VXIplug&play driver for C#, C/C++, Visual Basic .NET, VEE, etc.		
Revision	Date	Note
		rsupv_GetAnalyzerFFTTriggeredState rsupv_SetAuxSpeakerMonitor rsupv_GetAuxSpeakerMonitor rsupv_SetSwitcherPort rsupv_GetSwitcherPort rsupv_SetDisplayInvertEqu rsupv_GetDisplayInvertEqu rsupv_setStatusRegister rsupv_getStatusRegister
2.6.0	08/2009	Driver supports UPV firmware version 2.6 Updated functions rsupv_SetGeneratorFunction, rsupv_GetGeneratorFunction - added new function rsupv_SetAnalyzerFunction, rsupv_GetAnalyzerFunction - added new function rsupv_SetProtocolGeneratorCodingMode, rsupv_GetProtocolGeneratorCodingMode - added new mode New functions Audio Quality Measurement rsupv_SetProtocolGeneratorCodingFile
2.4.2	11/2008	Modified functions(command removed - SYST:COMM:GPIB:LTER): rsupv_StoreMemoryDataBinary rsupv_readToFile rsupv_writeHugeFileStart rsupv_contHugeFile
2.4.1	10/2008	Driver for UPV firmware version 2.4 New functions: - rsupv_readToFile - rsupv_writeFromFile - rsupv_writeHugeFileStart - rsupv_contHugeFile
2.4.0	08/2008	Driver update for UPV firmware version 2.4 New features: - Added Analog 8 Channel option - Added Analog 16 Channel option - Added USI Dual Channel option - Added USI 8 Channel option - Added Speach Quality Measurements (PESQ)

Driver history for LabWindows/CVI and VXIplug&play driver for C#, C/C++, Visual Basic .NET, VEE, etc.		
Revision	Date	Note
		<p>- Modified functions:</p> <ul style="list-style-type: none"> • rsupv_ConfigureGeneratorDigital - removed argument Source Mode • rsupv_SetAnalyzerInstrument, rsupv_GetAnalyzerInstrument - added new instrument types (Analog Multichannel and USI instruments) • rsupv_SetAnalyzerChannelInputRange, rsupv_GetAnalyzerChannelInputRange, rsupv_SetAnalyzerChannelInputRangeValue, rsupv_GetAnalyzerChannelInputRangeValue - range of Channel is now 1 to 16 • rsupv_SetAnalyzerFFTAvgCount - changed range • rsupv_SetAnalyzerWaveformMonitorTriggerSource, rsupv_GetAnalyzerWaveformMonitorTriggerSource, rsupv_SetAnalyzerRecordTriggerSource, rsupv_GetAnalyzerRecordTriggerSource - added Gen Burst • rsupv_SetGeneratorFilter, rsupv_GetGeneratorFilter, rsupv_SetAnalyzerPrefilter, rsupv_GetAnalyzerPrefilter, rsupv_SetAnalyzerFilter, rsupv_GetAnalyzerFilter - added AES 17 and C Weighting • rsupv_SetMeasurementMode, rsupv_GetMeasurementMode - added Wait • rsupv_SetGeneratorInstrument, rsupv_GetGeneratorInstrument - added USI Dual Chan instrument <p>- New functions:</p> <ul style="list-style-type: none"> • rsupv_SetGeneratorOutputState, rsupv_GetGeneratorOutputState • rsupv_SetAnalyzerFFTUndersampleState, rsupv_GetAnalyzerFFTUndersampleState • rsupv_SetAnalyzerFFTCompFactor, rsupv_GetAnalyzerFFTCompFactor • rsupv_SetDisplayNormalization, rsupv_GetDisplayNormalization • rsupv_SetDisplayNormalizeValue, rsupv_GetDisplayNormalizeValue • rsupv_GetProtocolAnalysisError • rsupv_SetDisplayCursorMoveTo • rsupv_SetMeasurementTimeout, rsupv_GetMeasurementTimeout • rsupv_ReadMeasurementResultMinMax • rsupv_ReadAxisData • rsupv_ReadAxisDataCount • rsupv_SetHardcopySize, rsupv_GetHardcopySize • rsupv_SetWindowStyle, rsupv_GetWindowStyle
1.4.0	03/2007	<p>Driver update for UPV firmware version 1.4</p> <p>Added support for USB interface</p> <p>New Functions:</p> <ul style="list-style-type: none"> rsupv_SetDigitalGeneratorAddImpairment rsupv_GetDigitalGeneratorAddImpairment rsupv_ConfigureGeneratorI2S rsupv_SetI2SGeneratorSyncTo rsupv_GetI2SGeneratorSyncTo rsupv_SetI2SGeneratorWordLength rsupv_GetI2SGeneratorWordLength

Driver history for LabWindows/CVI and VXIplug&play driver for C#, C/C++, Visual Basic .NET, VEE, etc.

Revision	Date	Note
		rsupv_SetI2SGeneratorSampleFrequency rsupv_GetI2SGeneratorSampleFrequency rsupv_SetI2SGeneratorMClkRatio rsupv_GetI2SGeneratorMClkRatio rsupv_SetI2SGeneratorAudioBits rsupv_GetI2SGeneratorAudioBits rsupv_SetI2SGeneratorFormat rsupv_GetI2SGeneratorFormat rsupv_SetI2SGeneratorFsyncShape rsupv_GetI2SGeneratorFsyncShape rsupv_SetI2SGeneratorFsyncPolarity rsupv_GetI2SGeneratorFsyncPolarity rsupv_SetI2SGeneratorWordOffset rsupv_GetI2SGeneratorWordOffset rsupv_SetGeneratorPhaseFile rsupv_SetGeneratorPlayScalePkToFS rsupv_GetGeneratorPlayScalePkToFS rsupv_SetGeneratorPlayChannel rsupv_GetGeneratorPlayChannel rsupv_SetGeneratorPlayMode rsupv_GetGeneratorPlayMode rsupv_SetGeneratorPlayTime rsupv_GetGeneratorPlayTime rsupv_SetGeneratorPlayShapeFile rsupv_SetGeneratorPlayAnalyzerLoopChannel rsupv_GetGeneratorPlayAnalyzerLoopChannel rsupv_SetGeneratorPlayAnalyzerLoopGain rsupv_GetGeneratorPlayAnalyzerLoopGain rsupv_SetGeneratorAmplitudeVariation rsupv_GetGeneratorAmplitudeVariation rsupv_SetGeneratorAVModulationFrequency rsupv_GetGeneratorAVModulationFrequency rsupv_SetGeneratorVariation rsupv_GetGeneratorVariation rsupv_SetI2SAnalyzerWordLength rsupv_GetI2SAnalyzerWordLength rsupv_SetI2SAnalyzerFormat rsupv_GetI2SAnalyzerFormat rsupv_SetI2SAnalyzerFsyncSlope rsupv_GetI2SAnalyzerFsyncSlope rsupv_SetI2SAnalyzerWordOffset

Driver history for LabWindows/CVI and VXIplug&play driver for C#, C/C++, Visual Basic .NET, VEE, etc.

Revision	Date	Note
		rsupv_GetI2SAnalyzerWordOffset rsupv_SetI2SAnalyzerInput rsupv_GetI2SAnalyzerInput rsupv_SetI2SAnalyzerChannelMode rsupv_GetI2SAnalyzerChannelMode rsupv_SetI2SAnalyzerSampleFrequency rsupv_GetI2SAnalyzerSampleFrequency rsupv_SetAnalyzerLevelMeasBandwidth rsupv_GetAnalyzerLevelMeasBandwidth rsupv_SetAnalyzerLevelMeasBandwidthValue rsupv_GetAnalyzerLevelMeasBandwidthValue rsupv_SetAnalyzerLevelMeasFrequencyMode rsupv_GetAnalyzerLevelMeasFrequencyMode rsupv_SetAnalyzerLevelMeasFrequencyValue rsupv_GetAnalyzerLevelMeasFrequencyValue rsupv_SetAnalyzerLevelMeasFrequencyFactor rsupv_GetAnalyzerLevelMeasFrequencyFactor rsupv_SetAnalyzerLevelMeasFrequencyStart rsupv_GetAnalyzerLevelMeasFrequencyStart rsupv_SetAnalyzerLevelMeasFrequencyStop rsupv_GetAnalyzerLevelMeasFrequencyStop rsupv_SetAnalyzerLevelDCMeasTime rsupv_GetAnalyzerLevelDCMeasTime rsupv_SetAnalyzerBargraphState rsupv_GetAnalyzerBargraphState rsupv_SetAnalyzerWaveformMonitorMeasMode rsupv_GetAnalyzerWaveformMonitorMeasMode rsupv_SetAnalyzerWaveformMonitorCompressionFactor rsupv_GetAnalyzerWaveformMonitorCompressionFactor rsupv_SetAnalyzerWaveformMonitorTraceLength rsupv_GetAnalyzerWaveformMonitorTraceLength rsupv_SetAnalyzerWaveformMonitorTriggerSource rsupv_GetAnalyzerWaveformMonitorTriggerSource rsupv_SetAnalyzerWaveformMonitorTriggerLevel rsupv_GetAnalyzerWaveformMonitorTriggerLevel rsupv_SetAnalyzerWaveformMonitorTriggerSlope rsupv_GetAnalyzerWaveformMonitorTriggerSlope rsupv_SetAnalyzerWaveformMonitorPretrigger rsupv_GetAnalyzerWaveformMonitorPretrigger rsupv_SetAnalyzerWaveformMonitorAutotrigger rsupv_GetAnalyzerWaveformMonitorAutotrigger

Driver history for LabWindows/CVI and VXIplug&play driver for C#, C/C++, Visual Basic .NET, VEE, etc.

Revision	Date	Note
		rsupv_SetAnalyzerSNMeasMode rsupv_GetAnalyzerSNMeasMode rsupv_SetAnalyzerSNMeasTime rsupv_GetAnalyzerSNMeasTime rsupv_SetAnalyzerNOCTMeasMode rsupv_GetAnalyzerNOCTMeasMode rsupv_SetAnalyzerRecordFile rsupv_SetAnalyzerRecordLength rsupv_GetAnalyzerRecordLength rsupv_GetAnalyzerRecordFileLength rsupv_SetAnalyzerRecordTriggerSource rsupv_GetAnalyzerRecordTriggerSource rsupv_SetAnalyzerRecordTriggerLevel rsupv_GetAnalyzerRecordTriggerLevel rsupv_SetAnalyzerRecordTriggerSlope rsupv_GetAnalyzerRecordTriggerSlope rsupv_SetAnalyzerRecordPretrigger rsupv_GetAnalyzerRecordPretrigger rsupv_SetProtocolAnalysisState rsupv_GetProtocolAnalysisState rsupv_SetProtocolAnalysisDisplayState rsupv_GetProtocolAnalysisDisplayState rsupv_SetProtocolAnalysisDisplayMode rsupv_GetProtocolAnalysisDisplayMode rsupv_SetProtocolAnalysisHighlight rsupv_GetProtocolAnalysisHighlight rsupv_SetProtocolAnalysisPersistence rsupv_GetProtocolAnalysisPersistence rsupv_SetProtocolAnalysisViewMode rsupv_GetProtocolAnalysisViewMode rsupv_GetProtocolAnalysisChannelByte rsupv_SetAuxAudioMonitor rsupv_GetAuxAudioMonitor rsupv_SetAuxPhoneState rsupv_GetAuxPhoneState rsupv_SetAuxPhonePermanentState rsupv_GetAuxPhonePermanentState rsupv_SetAuxTriggerInputEnable rsupv_GetAuxTriggerInputEnable rsupv_SetAuxTriggerInputMode rsupv_GetAuxTriggerInputMode

Driver history for LabWindows/CVI and VXIplug&play driver for C#, C/C++, Visual Basic .NET, VEE, etc.

Revision	Date	Note
		rsupv_SetAuxTriggerInputEdge rsupv_GetAuxTriggerInputEdge rsupv_SetAuxTriggerOutputEnable rsupv_GetAuxTriggerOutputEnable rsupv_SetAuxTriggerOutputMode rsupv_GetAuxTriggerOutputMode rsupv_SetAuxTriggerOutputFrequency rsupv_GetAuxTriggerOutputFrequency rsupv_SetAuxTriggerOutputEdge rsupv_GetAuxTriggerOutputEdge rsupv_SetSwitcherState rsupv_GetSwitcherState rsupv_SetSwitcherTracking rsupv_GetSwitcherTracking rsupv_SetSwitcherOffset rsupv_GetSwitcherOffset rsupv_SetSwitcherInput rsupv_GetSwitcherInput rsupv_SetSwitcherOutput rsupv_GetSwitcherOutput rsupv_SetProtocolGeneratorCodingMode rsupv_GetProtocolGeneratorCodingMode rsupv_SetProtocolGeneratorCRC rsupv_GetProtocolGeneratorCRC rsupv_SetProtocolGeneratorValidity rsupv_GetProtocolGeneratorValidity rsupv_SetProtocolGeneratorAllBitsToZero rsupv_SetProtocolGeneratorChannelByte rsupv_GetProtocolGeneratorChannelByte rsupv_SetProtocolGeneratorChannels rsupv_GetProtocolGeneratorChannels rsupv_SetDisplayDataListFilter rsupv_GetDisplayDataListFilter rsupv_SetDisplayScanOffset rsupv_GetDisplayScanOffset rsupv_SetDisplaySweepYSource rsupv_GetDisplaySweepYSource rsupv_SetDisplayFFTGraphYSource rsupv_GetDisplayFFTGraphYSource rsupv_SetDisplayWaveformYSource rsupv_GetDisplayWaveformYSource

Driver history for LabWindows/CVI and VXIplug&play driver for C#, C/C++, Visual Basic .NET, VEE, etc.		
Revision	Date	Note
		rsupv_SetDisplayBargraphYSource rsupv_GetDisplayBargraphYSource rsupv_SetDisplayYSourceFile rsupv_SetDisplayTraceUpdate rsupv_GetDisplayTraceUpdate rsupv_SetDisplayReference rsupv_GetDisplayReference rsupv_SetDisplayReferenceValue rsupv_GetDisplayReferenceValue rsupv_SetDisplayReferenceFile rsupv_SetDisplayCopyReferenceSettings rsupv_GetDisplayCopyReferenceSettings rsupv_SetDisplayCopyScalingSettings rsupv_GetDisplayCopyScalingSettings rsupv_SetDisplayUnitFunctionTrack rsupv_GetDisplayUnitFunctionTrack rsupv_SetDisplayUnit rsupv_GetDisplayUnit rsupv_SetDisplayUnitAuto rsupv_GetDisplayUnitAuto rsupv_SetDisplayUnitUserString rsupv_GetDisplayUnitUserString rsupv_SetDisplayYAxisSpacing rsupv_GetDisplayYAxisSpacing rsupv_SetDisplayYAxisTop rsupv_GetDisplayYAxisTop rsupv_SetDisplayYAxisBottom rsupv_GetDisplayYAxisBottom rsupv_SetDisplayCopyLimitSettings rsupv_GetDisplayCopyLimitSettings rsupv_SetDisplayLimitState rsupv_GetDisplayLimitState rsupv_SetDisplayLimitSource rsupv_GetDisplayLimitSource rsupv_SetDisplayLimitSourceValue rsupv_GetDisplayLimitSourceValue rsupv_SetDisplayLimitSourceFilename rsupv_GetDisplayLimitSourceFilename rsupv_SetDisplayLimitShift rsupv_GetDisplayLimitShift rsupv_SetDisplayLimitShiftParallel

Driver history for LabWindows/CVI and VXIplug&play driver for C#, C/C++, Visual Basic .NET, VEE, etc.

Revision	Date	Note
		rsupv_GetDisplayLimitShiftParallel rsupv_SetDisplayLimitShiftSymmetrical rsupv_GetDisplayLimitShiftSymmetrical rsupv_SetDisplaySweepGraphXSource rsupv_GetDisplaySweepGraphXSource rsupv_SetDisplaySweepGraphXAxis rsupv_GetDisplaySweepGraphXAxis rsupv_SetDisplayXAxisReferenceValue rsupv_GetDisplayXAxisReferenceValue rsupv_SetDisplayXAxisScaling rsupv_GetDisplayXAxisScaling rsupv_SetDisplayXAxisSpacing rsupv_GetDisplayXAxisSpacing rsupv_SetDisplayXAxisLeft rsupv_GetDisplayXAxisLeft rsupv_SetDisplayXAxisRight rsupv_GetDisplayXAxisRight rsupv_SetDisplayCursorState rsupv_GetDisplayCursorState rsupv_SetDisplayCursorMode rsupv_GetDisplayCursorMode rsupv_GetDisplayCursorAmplitude rsupv_SetDisplayCursorMoveTo rsupv_SetDisplayCursorXPosition rsupv_GetDisplayCursorXPosition rsupv_SetDisplayCursorYPosition rsupv_GetDisplayCursorYPosition rsupv_SetDisplayCursorMovement rsupv_GetDisplayCursorMovement rsupv_SetDisplayMarkerMode rsupv_GetDisplayMarkerMode rsupv_SetDisplayMarkerHarmonics rsupv_GetDisplayMarkerHarmonics rsupv_SetDisplayMarkerMoveTo rsupv_SetDisplayMarkerXPosition rsupv_GetDisplayMarkerXPosition rsupv_SetDisplayStoreTraceAs rsupv_GetDisplayStoreTraceAs rsupv_SetDisplayTraceSelect rsupv_GetDisplayTraceSelect rsupv_SetDisplayNormalizationFrequency

Driver history for LabWindows/CVI and VXIplug&play driver for C#, C/C++, Visual Basic .NET, VEE, etc.

Revision	Date	Note
		rsupv_GetDisplayNormalizationFrequency rsupv_SetDisplayModifyEqu rsupv_GetDisplayModifyEqu rsupv_SetDisplayLimitOffset rsupv_GetDisplayLimitOffset rsupv_SetDisplayLimitOffsetValue rsupv_GetDisplayLimitOffsetValue rsupv_SetDisplayStoreTraceToFile rsupv_GetDisplayStoreTraceToFile rsupv_MeasurementControl rsupv_ReadTraceDataSets rsupv_WriteTraceDataSets rsupv_ReadTraceDataSetCount rsupv_ReadTraceDataList rsupv_ReadTraceDataListCount rsupv_SetHardcopySource rsupv_GetHardcopySource rsupv_SetHardcopyDestination rsupv_GetHardcopyDestination rsupv_SetHardcopyOrientation rsupv_GetHardcopyOrientation rsupv_SetHardcopyStoreMode rsupv_GetHardcopyStoreMode rsupv_SetHardcopyFileName rsupv_GetHardcopyFileName rsupv_SetHardcopyHeaderFooterState rsupv_GetHardcopyHeaderFooterState rsupv_SetHardcopyDefineHeader rsupv_GetHardcopyDefineHeader rsupv_SetHardcopyDefineFooter rsupv_GetHardcopyDefineFooter rsupv_HardcopyImmediate rsupv_SetMemoryString rsupv_GetMemoryString rsupv_StoreMemoryDataNumeric rsupv_StoreMemoryDataBinary rsupv_ResetMemoryBuffers rsupv_SystemShutdown Modified Functions: rsupv_SetGeneratorInstrument

Driver history for LabWindows/CVI and VXIplug&play driver for C#, C/C++, Visual Basic .NET, VEE, etc.

Revision	Date	Note
		rsupv_GetGeneratorInstrument rsupv_ConfigureGeneratorAnalog rsupv_SetGeneratorOutputType rsupv_GetGeneratorOutputType rsupv_SetGeneratorBandwidth rsupv_GetGeneratorBandwidth rsupv_SetGeneratorVoltageRange rsupv_SetGeneratorCrestFactor rsupv_GetGeneratorCrestFactor rsupv_SetGeneratorCrestFactorValue rsupv_GetGeneratorCrestFactorValue rsupv_SetGeneratorSweepXAxis rsupv_GetGeneratorSweepXAxis rsupv_SetGeneratorSweepZAxis rsupv_GetGeneratorSweepZAxis rsupv_SetGeneratorSweepSpacing rsupv_GetGeneratorSweepSpacing rsupv_SetGeneratorSweepStart rsupv_GetGeneratorSweepStart rsupv_SetGeneratorSweepStop rsupv_GetGeneratorSweepStop rsupv_SetGeneratorSweepPoints rsupv_GetGeneratorSweepPoints rsupv_SetGeneratorSweepSteps rsupv_GetGeneratorSweepSteps rsupv_SetGeneratorFilter rsupv_GetGeneratorFilter rsupv_SetGeneratorEqualizerFile rsupv_SetGeneratorFunction rsupv_GetGeneratorFunction rsupv_SetGeneratorRandomShape rsupv_GetGeneratorRandomShape rsupv_SetAnalyzerInstrument rsupv_GetAnalyzerInstrument rsupv_SetAnalyzerChannelInputRange rsupv_GetAnalyzerChannelInputRange rsupv_GetAnalyzerChannelInputRangeValue rsupv_SetDigitalAnalyzerAudioInput rsupv_SetAnalyzerSampleFrequency rsupv_GetAnalyzerSampleFrequency rsupv_SetAnalyzerStartCondition

Driver history for LabWindows/CVI and VXIplug&play driver for C#, C/C++, Visual Basic .NET, VEE, etc.		
Revision	Date	Note
		rsupv_GetAnalyzerStartCondition rsupv_SetAnalyzerFunction rsupv_GetAnalyzerFunction rsupv_ConfigureAnalyzerSweep rsupv_SetAnalyzerLevelMeasTime rsupv_GetAnalyzerLevelMeasTime rsupv_ConfigureAnalyzerPeakMeasurement rsupv_SetAnalyzerPeakMeasIntervalTime rsupv_GetAnalyzerPeakMeasIntervalTime rsupv_ConfigureAnalyzerFundamental rsupv_SetAnalyzerTHDFundamental rsupv_SetAnalyzerTHDNFrequencyLimUpp rsupv_SetAnalyzerLevelMonitor rsupv_SetAnalyzerPrefilter rsupv_GetAnalyzerPrefilter rsupv_SetAnalyzerFilter rsupv_GetAnalyzerFilter rsupv_SetAnalyzerNotchFrequency rsupv_ConfigureAudioMonitoring rsupv_SetAuxSpeaker rsupv_GetAuxSpeaker rsupv_SetAuxPhoneOutput rsupv_GetAuxPhoneOutput rsupv_SetAuxAnalogOutput rsupv_GetAuxAnalogOutput rsupv_SetAnalyzerFrequencyPhaseReferenceValue rsupv_ReadMeasurementResult rsupv_SetDigitalGeneratorSampleFrequency rsupv_GetDigitalGeneratorSampleFrequency rsupv_SetAnalyzerPhaseUnit rsupv_GetAnalyzerPhaseUnit rsupv_error_query - SENS:DATA? sent prior to SYST:ERR? to switch to other parser - fixes the error read out bug rsupv_StartMeasurementWaitOPC
1.0.2	02/2006	Modifications - Changed help of rsupv_init() for LAN Interface
1.0.1	04/2005	Modifications - I/O conversion specification fixed: Input: "%le" Output: "%.12f" - System locale are set to default "C"

Driver history for LabWindows/CVI and VXIplug&play driver for C#, C/C++, Visual Basic .NET, VEE, etc.

Revision	Date	Note
1.0	01/2005	Created.

3 Driver history for IVI-COM driver

Driver history for IVI-COM driver		
Revision	Date	Note
2.5.0.0	09/2009	<p>Driver update for UPV firmware version 2.5</p> <p>New features: Added Audio Quality Measurements (PEAQ)</p> <p>Modified functions: IRsUpvAnalyzerFunction.Function - added new enum value (PEAQ) IRsUpvSignals.Function - added new enum values (Square and Chirp)</p>
2.4.0.0	08/2008	<p>Driver update for UPV firmware version 2.4</p> <p>New features: - Added Analog 8 Channel option - Added Analog 16 Channel option - Added USI Dual Channel option - Added USI 8 Channel option - Added Speech Quality Measurements (PESQ) - Modified functions:</p> <p>IRsUpvAnalogAnalyzer - added new repeated capabilities IRsUpvAnalyzerConfiguration.SelectInstrument - added new instrument types (Analog Multichannel and USI instruments) IRsUpvAnalyzerFunctionFFT.Window - changed command for Hanning enum IRsUpvAnalyzerFunctionFFTMeasurement.AverageCount - changed range IRsUpvAnalyzerFunction.Function - added DIM, PESQ IRsUpvAnalyzerFunctionDistortionMeasurementsTHDN.RejectBandwidth IRsUpvAnalyzerFunctionFilters.Prefilter - added AES 17 and C Weighting IRsUpvAnalyzerFunctionFiltersDigitalFilter.AnalyzerFilter - added AES 17 and C Weighting IRsUpvAnalyzerFunctionLevelMeasurements.MeasTime IRsUpvAnalyzerFunctionLevelMeasurements.DCMeasTime IRsUpvAnalyzerFunctionLevelMeasurementsRMSSelective.FrequencyMode - added enum Frequency IRsUpvAnalyzerFunctionOfflineAnalysis.TriggerSource - added Gen Burst IRsUpvAnalyzerFunctionSNMeasurements.MeasurementTime IRsUpvAnalyzerFunctionSweep.SweepControl - deleted enums (MSweep, MLIST) IRsUpvAnalyzerFunctionWaveform.TriggerSource - added Gen Burst IRsUpvAnalyzerTrigger.StartCondition - added new enum values IRsUpvDigitalGenerator.SourceMode - deleted enum (ADATa) IRsUpvFilterEqualizer.Filter - added AES 17 and C Weighting IRsUpvGeneratorConfiguration.SelectInstrument - added new instrument type (USI Dual Channel instrument) IRsUpvMeasurements.Mode - added Wait IRsUpvMeasurementsConfigurationChannel.Reference - added new enum values</p>

Driver history for IVI-COM driver		
Revision	Date	Note
		IRsUpvSignalsDIM.SquareToSine - added DIMS IRsUpvSignalsRandom.Shape - added new enum File New properties and methods: IRsUpvAnalogAnalyzer.ACDCCoupling IRsUpvAnalogAnalyzer.Range IRsUpvAnalyzerConfiguration.ReferenceChannel IRsUpvAnalyzerFunctionProtocolAnalysis.QueryProtocolError IRsUpvAnalyzerTrigger.TrigerChannel IRsUpvDigitalGenerator.SyncOutput IRsUpvDigitalGenerator.SyncTo IRsUpvGeneratorConfiguration.OutputEnabled IRsUpvMeasurements.Timeout IRsUpvMeasurementsConfigurationChannel.FrequencyReference IRsUpvMeasurementsConfigurationChannel.MeasChannel IRsUpvMeasurementsConfigurationChannel.PhaseReference IRsUpvMeasurementsConfigurationChannel.ReadMeasurementResult IRsUpvMeasurementsConfigurationChannel.ReadMeasurementResultMax IRsUpvMeasurementsConfigurationChannel.ReadMeasurementResultMin IRsUpvMeasurementsResultsBarGraph.ReadBarGraphAxisData IRsUpvMeasurementsResultsBarGraph.ReadBarGraphAxisDataCount IRsUpvMeasurementsResultsFFT.ReadBarGraphAxisData IRsUpvMeasurementsResultsFFT.ReadBarGraphAxisDataCount IRsUpvMeasurementsResultsSweep.ReadBarGraphAxisData IRsUpvMeasurementsResultsSweep.ReadBarGraphAxisDataCount
1.0.0.0	10/2007	Created.

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