

Software Development Kit

Write software to control and acquire data from Larson Davis products — Model 831, LxT SoundExpert and HVM200 Human Vibration Meter

Highlights

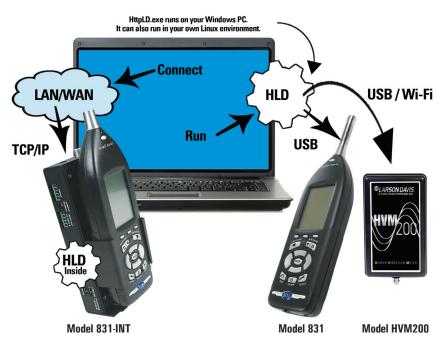
- Full instrument control
- Windows and Linux support
- Control meter from mobile platform
- Simple web integration
- JSON data-interchange
- Readable ASCII commands and responses
- Support for multiple, simultaneous instrument connections

Applications

- Custom software
- Integrate Larson Davis meter into existing software
- Implement specialized algorithms
- Construction Noise
- Mining Noise
- Outdoor Venues
- Aircraft Noise
- Amusement Parks
- Environmental Impact Studies
- Industrial Noise Monitoring



Supported Instruments



Overview

The Software Development Kit (SDK) is a toolkit for developing custom applications in MS Windows®, Debian Linux and mobile platforms that includes example code and everything else you need to communicate with the Model 831, 831 with 831-INT-ET, LxT or HVM200.

Control Model 831 and LxT Sound Level Meters

Our latest version of the SDK includes a documented http API and software components that allow the control and setup of Larson Davis products using methods designed for the Internet. These methods enable Independent Software Vendors (ISV) to write software that will run on a wide variety of platforms.

Control HVM200 Human Vibration Meter

The SDK provides the documentation needed to use the http API that is built into the HVM200 and the libraries to access data stored in HVM200 data files.

Easily Utilize the Internet and Web

This is accomplished by communicating to the sound level meter over a network using a tcp/ip socket. Software requests and instrument responses are both formatted using simple ASCII text for development ease and to make the resulting application highly portable. Requests made through the SDK are formatted like a URL and response data is formatted using standard JSON format. At the simplest level this allows interface to a meter using only a browser.



Donation a Constant Contant	MS Windows 7 or newer
Runtime Operating System	Debian Linux
xT Communication	USB, serial
331 Communication	tcp/ip[i], USB, serial2
SDK API	http over tcp/ip for instrument control C# & C++ for data file access
Data-interchange format	JSON
(command and control)	
Example code	C#, C++, Javascript
SDK component type	Stand-alone executable
	Documentation
SDK for Reading Data Files	·
Runtime Operating System	MS Windows 7 or newer
Development Environment	C++, C#
LDTranslator.dll (C# component)	For 831, LxT , HVM100 & HVM200
SLMtranslate.dll (C++ component)	For 831 & LxT
SDK component type	.dll files
File Types Supported	.ldbin, .slmdl, .hvm2
Components required for Windows develo	pment (included)
B31 or LxT firmware revision	≥ 2.300
Miniweb.dll[ii]	
Libusb[iii]	1.0
Supercom	
MSVCP120	
MSVCR120	
Components required for Debian Linux development	
831 or LxT firmware revision	≥ 2.300
Miniweb.dll3	
Libusb4	1.0 (not included in SDK)
Included Items	
Software interface application (Windows & one Linux version)	Httpld.exe
File translation library	SImtranslate.dll
(Windows only)	
Documentation	
Ordering Information SWW-G4-SDK Software Development kit supporting instruments. For Debian Linux and Microsoft® Windo SWW-G4-WINSDK Software Development kit suppor	ws® 7 or newer

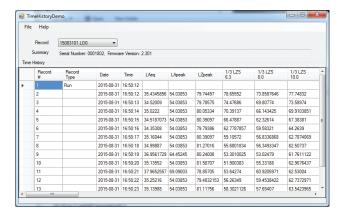


Figure 1 - C# SLM Translator Example



Figure 2 - Sample HVM200 display



[i] Requires Model 831 with 831-INT-ET. [ii] GPL3 license. [iii] GPL2 license

3425 Walden Avenue, Depew, NY 14043-2495 USA

Phone 716-926-8243

Toll-Free in USA 888-258-3222

Fax 716-926-8215 E-mail sales@larsondavis.com

Web Site www.larsondavis.com

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