LARSON DAVIS
A PCB DIVISION

MODEL **SERIES SDK**

SOFTWARE DEVELOPMENT KIT

- Full instrument control via mobile platform
- Windows and Linux support
- Simple web integration
- JSON data-interchange
- Readable ASCII commands and responses

TYPICAL APPLICATIONS

- Custom software and implementation of specialized algorithms
- Environmental Noise Monitoring
- Construction Noise
- Mining Noise
- Outdoor Venues
- Aircraft Noise
- Industrial Noise Monitoring

WRITE SOFTWARE TO CONTROL AND ACQUIRE DATA

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

Our latest version of the SDK includes a documented http API and software components that allow the control and setup of Larson Davis Sound Level Meters – Model 831C, 831, LxT - using methods designed for compatibility with the internet. These methods enable Independent Software Vendors (ISV) to write software that will run on a wide variety of platforms. When working with a Human Vibration Meter, the SDK provides the documentation needed to use the http API that is built into the HVM200 and the associated libraries to access data stored in HVM200 data files.

The SDK allows you to easily utilize the internet by communicating to your 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.

CE

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SPECIFICATIONS	
SDK Components for Control & Download	
Runtime Operating System	Windows 7 or newer
	Debian Linux
LxT Communication	USB, serial
831 Communication	tcp/ip [1], USB, serial 2
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 831C, 831, LxT, HVM100 & HVM200
SLMtranslate.dll (C++ component)	For 831C, 831, LxT
SDK component type	.dll files
File Types Supported	.ldbin, .slmdl, .hvm2
Components required for Windows development (included)	
831 or LxT firmware revision	≥ 2.300
Miniweb.dll [2]	
Libusb [3]	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)
Ordering Information	
SWW-G4-SDK Software Development kit supporting Larson Davis Model 831C, 831, LxT and HVM200 instruments. For Debian Linux and Microsoft® Windows® 7 or newer	
SWW-G4-WINSDK Software Development kit supporting Larson Davis Model 831C, 831, LxT and HVM200 instruments. For Microsoft® Windows® 7 or newer	
Included Accessories	
HttpId.exe	software interface application (Windows & one Linux version)
Slmtranslate.dll	File translation library (Windows only)
Documentation	

[1] Requires Model 831 with 831 INT-ET
[2] GPL3 license
[3] GPI2 license

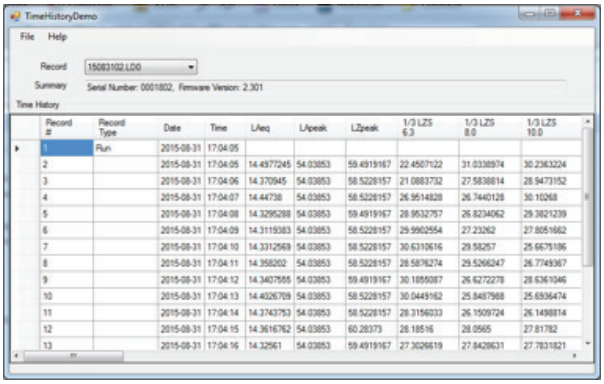

Figure 1
C# SLM Translator Example

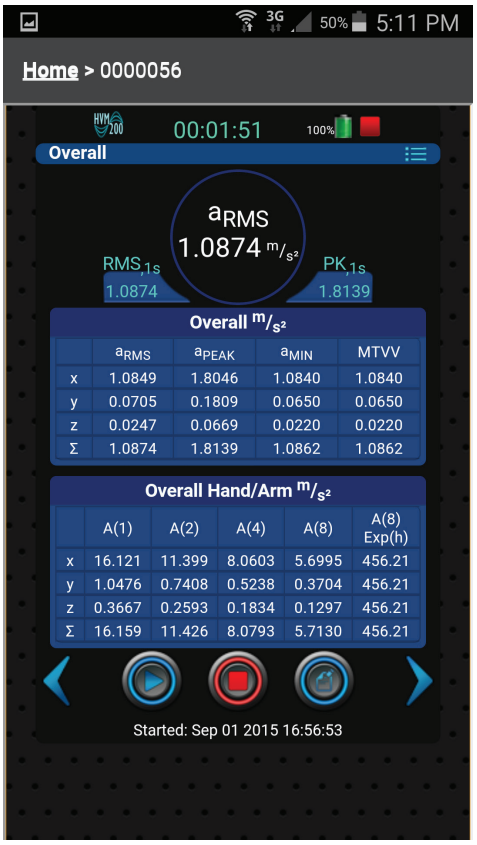

Figure 2
Sample HVM200 display

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