







MODEL 8211H-QPR

FIREARMS ACOUSTIC ANALYSIS

- Measure up to 183 dB
- Class 1 Sound Level Meter
- 48 kHz sampling rate
- Simple setup for gunfire testing applications
- Easy-to-navigate, responsive, touch display
- Long battery life, up to 40 hours
- Bluetooth BLE 4.1 wireless communication
- Full control with LD Atlas mobile app
- Dosimetry option included for noise exposure measurements

MEASURE SOUND PRESSURE LEVEL

Many firearm examiners are tasked with determining whether installation of a suppressor on a firearm results in a "perceptible" reduction of the sound pressure level of a gun. The Larson Davis Spartan 821IH-QPR provides this functionality utilizing an easy-to use handheld platform. Included BLE technology allows for easy measurement control using the LD Atlas mobile app or included software. Meters may also be connected via USB-C.

With the included ¼" prepolarized pressure microphone, Spartan 821IH-QPR is capable of reading levels up to 183 dB, easily capturing levels typically associated with gunfire testing. Included G4 LD Utility software provides automatic wireless or USB data download, and convenient data storage options. View tabular data, visualize results on a graph, create custom reports, and export data to a variety of formats.

REPORTING USING MEASUREMENT HISTORY						
Record #	Date	Time	Run Duration	LZpk (max)		
1	2023-12-29	10:10:14	00:00:05.0	141.8		
2	2023-12-29	10:10:26	00:00:06.0	137.4		
3	2023-12-29	10:10:40	00:00:06.0	136.7		
4	2023-12-29	10:10:51	00:00:07.0	138.1		
5	2023-12-29	10:11:01	00:00:05.0	140.9		
6	2023-12-29	10:11:09	00:00:05.0	137.9		

Simple setup to view data from each gunshot without creating numerous files

SPECIFICATIONS					
GENERAL					
Dynamic Range (A-weighted typical)	61 to 183 dB				
Peak Dynamic Range (Z-weighted typical)	103 to 186 dB				
Peak Rise Time	30 μs				
Time Weightings	Fast, Slow, & Impulse				
Frequency Weightings	A, C, & Z				
Data Storage (microSD card)	8 GB standard Up to 32 GB (µSDHC) and 256 (µSDXC)				
Communication	USB-C, Bluetooth BLE 4.1				
Display	480 x 800 color with capacitive touch				
Power	Internal Lithium battery, USB-C or external 12 V				
Battery Recharge	Qi Wireless, USB-C, or external 12 V				
Typical Runtime (internal battery @ 22 °C)	40 hours (display off) 15 hours (display on)				
External Power	6 V to 24 V DC (720 mW typical with display off)				
Logging	Time history: 1 s to 1 h Measurement History: 1 min to 6 h				
Metrics	Leq, Lmax, Lmin, Lpeak, Ln (6 values), Time above				
1/1 and 1/3 Octave Metrics (Optional)	Leq, Lmax, Lmin				
Signal Output	AC/DC on 3.5 mm TRS jack				
Operating Temperature	-30 to 60 °C				
Dimensions (H x W x D)	10.1 x 3.3 x 1.3 inches 260 x 83 x 32 mm				
Weight	12.1 oz (383 g)				
FILTERS (OPTIONAL)					
Bandwidth	1/1 and 1/3 Octaves				
Frequencies (base 10)	1/1: 8 Hz to 16 kHz 1/3: 6.3 Hz to 20 kHz				
Standards Compliance	ANSI S1.11-2014 Class 1 IEC 61260:2014 Class 1				
STANDARDS					
Acoustic	ANSI S1.4-2014 Class 1, IEC 61672-1:2013 Class 1				
Noise Dosimetry	ANSI S1.25-1991 IEC 61252:2017				
Safety	Directive 2014/35/EU IEC 61010-1:2010 RoHS Directive 2011/65/EU				
Approvals	CE, RoHS, WEEE				

INCLUDED ACCESSORIES				
DESCRIPTION	MODEL			
Pressure Microphone (0.25 mV/Pa)	377A12			
Preamplifier	PRM821			
1/4" Microphone Adapter	ADP043			
USB-C Cable	CBL242-03			
Software	G4 LD Utility			

OPTIONAL ACCESSORIES				
DESCRIPTION	MODEL			
Replacement internal lithium batteries	BAT026			
Power cable with Anderson Powerpole® connectors to bare wires (6 in. / 15 cm)	CBL226-1/2			
External 12 V power cable for 721 and 821 of length 15 in. (38 cm). Terminated with Anderson Powerpole® connector	CBL241-01			
Universal AC power supply with USB-C output connector	PSA045			
Hard shell shipping and carrying case	CCS060			
Qi charger pad with USB-C connector	PSA046			
Tripod with low acoustic signature for use with Sound Level Meters. Max height 80 inches (2 m)	TRP025			
Accessory kit for Class 1 Sound Level Meters; includes case (CCS060), power supply (PSA045), Class1 calibrator (CAL200) & windscreen (WS001)	X21-ACC			
Accessory kit for Class 2 Sound Level Meters; includes case (CCS060), power supply (PSA045), Class 2 calibrator (CAL150) & windscreen (WS001)	X21-ACC1			
Option to add 1/1 and 1/3 Octave Band filters	X21-OB3			
Option to disable Bluetooth	X21-NBT			
8 GB, industrial grade microSD memory chip	X21-SD-8GB			
Preamplifier extension cables up to 200 ft. (60 m)	EXC series			



Meter Ports

GMGA MEASURING

Address: No. 33 Alley 99/120 Dinh Cong Ha, Dinh Cong Ward, Hoang Mai District, 10000 Hanoi City, Vietnam

Telephone: <u>+84 845 969 336</u>

Email: info@gmga.vn Website: https://gmga.vn/