







M O D E L **730**

SPARTAN™ NOISE DOSIMETER

- Truly wireless with wireless charging and Bluetooth low-energy 4.1 communication
- Full control and live monitoring via LD Atlas app
- Download and view measurements, generate reports, and share annotated data from the app
- Automatically connect and download data via G4 LD Utility software
- Built-in bump and motion detection
- Automatic calibration of your dosimeter
- Optional Event Sound Recording (730-ESR)
- Optional 1/1 Octave filters (730-0B1)

TYPICAL APPLICATIONS

- Worker noise exposure measurements
- Task-based noise measurements
- Compliance to OSHA, MSHA, ACGIH, and ISO 9612
- EU Directive 2003/10/EC compliance

WIRELESS WORKER NOISE MEASUREMENTS

The Spartan™ Model 730 Noise Dosimeter is designed to make worker noise dose measurements easy and fast. With Spartan, control test setup and measurements directly from the Larson Davis Atlas™ mobile app. All essential tasks can be completed from your iOS™ or Android™ device.

LD Atlas offers interference-free monitoring using low-energy Bluetooth, ensuring that you get the valuable data you need the first time. When a test is complete, Spartan communicates with LD Atlas to download the data, which is viewable directly from a phone or tablet. Generate reports, including the full data file, from the mobile interface before sharing via email.

To begin testing, simply remove the dosimeters from their rugged case and attach them to workers. After a shift, place the dosimeters back in the case where they will charge wirelessly and the data files can be downloaded. Built-in measurement of motion and bumps, combined with optional event audio recordings and 1/1 octave frequency analysis, provide additional data to help you understand what caused the noise.

The G4 LD Utility software offers another option for control of your testing. With all the functionality of the LD Atlas mobile app, G4 LD Utility adds the ability to complete "what-if" analysis to model potential changes and determine the impact of different data selections.

ANSI S1.25-1991 (R2017), IEC 61252 Ed. 1.2 52 – 140 dB rms A-weighted 94 dB 78 – 143 dB Peak, C-weighted A, C, Z A, C, Z Slow, Fast, Impulse 20 Hz to 10 kHz 1 second samples LAeq, LCeq, LCpeak, LZpeak, LASmax, LAFmax, TWA3, TWA5, Motion 8 GB internal Bluetooth Low Energy 4.1 USB 2.0 (Micro-B connector) Rechargeable Lithium Ion				
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USB 2.0 (Micro-B connector)				
Rechargeable Lithium Ion				
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40 hours typical				
3 hours from full discharge				
Qi-compliant wireless or USB				
CE, ROHS, WEEE				
Overall motion percentage and bump				
English, Spanish, Italian, French, Portuguese, German				
4 independent with configurable LED indication				
3, 4, 5, 6				
70.0 to 100.0 dB				
70.0 to 100.0 dB				
1 to 24 hours				
2 independent with configurable indication				
Dose; ProjDose; L _{AVG} ; TWA(8); Proj TWA(8); Lex,8h; Lep,d; Proj Lep,d				
es (Common to all virtual dosimeters)				

Lpeak, Lmax, & Lmin including time of occurrence

L_{C-A}, Exposure (Pa²s & Pa²h), Motion

Exceedance count and time for 2 rms and 3 peak thresholds

Overload count, duration, and percentage

Mechanical				
Display	Color LCD 176 x 176 pixels, always on with low light sensor and front light			
Ingress Protection	IP65			
Keys	Four buttons			
Weight 112 g (4.2 oz.) including clips and windscre				
Dimensions	85 x 54 x 39 mm (3 35 x 2 13 x 1 54 in) dosimeter only			

SPECIFICATIONS (CONTINUED)								
Microphone		1/4-inch Model 375A03						
Operating Temperature		-10 to +50 °C (14 to 122 °F)						
Operating Humi	dity	Up to 90% RH, non-condensing						
1/1 Octave Filters (optional)								
Standards		ANSI/ASA S1.11-2014; IEC 61260-1:2014 Class 1						
Filters		31.5 Hz to 8 kHz						
Linear Operating Range)	42 to 140 dB @ 1 kHz						
Measured Resul	ts	L _{Zeq} (Leq), L _{ZTMax} (Lmax), L _{ZTMin} (Lmin)						
Event Audio Recording (optional)								
Format		16-bit .wav						
Sample Rate		8 kHz						
Recording Time		Fixed: 2 s pre-trigger and 10 s post-trigger						
Trigger Source		L _{AS} , L _{AF} , L _{CS} , L _{CF} , L _{Aeq,1s} , L _{Ceq,1s}						
Trigger Level		40	0 – 140 dB, se	electable				
ORDERING I	NFORMA [*]	TION						
730	Spartan 730 noise dosimeter with one windscreen and two clips. Includes calibration certificate							
	Complete Spartan 730 noise dosimeter kit that includes quantity 'xx' dosimeters and one USB to Bluetooth dongle. Each dosimeter includes one windscreen, two clips, and a calibration certificate.							
	ʻxx'	Spartan 730 Dosimeters	Calibrator (qty 1)	Calibration Adapter	Case			
730-PKxx-EU 730-PKxx-UK	01	1	CAL150	1 x ADP109	CCS056			
730-PKxx-US	03	3	CAL150	2 x ADP109	CCS057			
	05	5	CAL150	2 x ADP109	CCS058			
	10	10	CAL150	2 x ADP109	CCS059			
	 EU includes a Type C power plug for use in Europe UK includes a Type G power plug for use in the UK US includes a Type A power plug for use in North America 							
730-ESR	Spartan 730 option to add event sound recording							
730-0B1		Spartan 730 o	ption to add 1	/1 octave filters				
Accessories								
CAL150	Class 2 calibrator, with user-selectable output 94 or 114 dB at 1 kHz, ½ in. opening with ¼ in. adaptor (ADP109) and calibration certificate included							
WS012-XX	Replacement windscreen for Spartan 730. Available in 1, 3, 5, 10, or 25 packs where XX is the number of windscreens							
730-CLIPS	Replacement clip for Spartan 730, quantity 2							
CER-730	ISO 170	ISO 17025 factory calibration and certification of Spartan 730						
ADP109	Calibrator adaptor for $1\!\!\!/2$ in. to $1\!\!\!/4$ in. opening. Used with Spartan 730							
DVX016	USB to Bluetooth dongle used with Spartan 730							



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Larson Davis offers a full line of noise and vibration measurement instrumentation such as Class 1 and 2 sound level meters, outdoor noise monitoring systems, personal noise dosimeters, human vibration meters, audiometric calibration systems, microphones and preamplifiers, and data analysis software. Instrumentation is used in community and environmental noise monitoring, measurement of building acoustics, managing worker exposure to noise and vibration, and various automotive, aerospace, and industrial applications. Larson Davis is a division of PCB Piezotronics, Inc., a wholly owned subsidiary of MTS Systems Corporations.

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