







M O D E L 730

SPARTAN™ NOISE DOSIMETER

- 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.

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SPECIFICATIONS						
Performance						
Standards	ANSI S1.25-1991 (R2017), IEC 61252 Ed. 1.2					
Linear Operating Range	52 – 140 dB rms A-weighted					
Dynamic Range	94 dB					
Peak Range	78 – 143 dB Peak, C-weighted					
Peak Weightings	A, C, Z					
RMS Weightings	A, C, Z					
Time Weightings	Slow, Fast, Impulse					
Frequency Range	20 Hz to 10 kHz					
Data Logging	Selectable 1 second or 1 minute samples					
Logged data	L _{Aeq} , L _{Ceq} , L _{Cpeak} , L _{Zpeak} , L _{ASmax} , L _{AFmax} , TWA3, TWA5, Motion					
Memory	32 GB internal					
Communications	Bluetooth Low Energy 4.1 USB 2.0 (Micro-B connector)					
Battery	Rechargeable Lithium Ion					
Run Time	40 hours typical					
Charge Time	3 hours from full discharge					
Charger	Qi-compliant wireless or USB					
Compliance	CE, ROHS, WEEE					
Motion	Overall motion percentage and bump					
Languages	English, Spanish, Italian, French, Portuguese, German					
Virtual Dosimeter						
Virtual Dosimeters	4 independent with configurable LED indication					
Exchange Rate	3, 4, 5, 6					
Criterion Level	70.0 to 100.0 dB					
Threshold	70.0 to 100.0 dB					
Shift Time	1 to 24 hours					
Alarms	2 independent with configurable indication					
Measurement Results	Dose; ProjDose; L _{AVG} ; TWA(8); Proj TWA(8); Lex,8h; Lep,d; Proj Lep,d					
Summary Measured Values (Common to all virtual dosimeters)						
$\begin{array}{l} L_{\omega T} \ (SPL), \ L_{\omega eq} \ (Leq), L_{\omega pk} \ (Lpeak), L_{\omega TMax} \ (Lmax), L_{\omega TMin} \ (Lmin) \ where \\ \omega = A, C, \ or \ Z \ frequency \ weighting \\ T = F, S, \ or \ I \ time \ weighting \end{array}$						
Lpeak, Lmax, & Lmin including time of occurrence						
L _{C-A} , Exposure (Pa ² s & Pa ² h), Motion						
Exceedance count and time for 2 rms and 3 peak thresholds						
Overload count, duration, and percentage						

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 – 140 dB, selectable					
ORDERING I	NFORMA	TION					
730	Spartan 730 noise dosimeter with one windscreen and two clips. Includes calibration certificate						
730-PKxx-EU 730-PKxx-UK 730-PKxx-US	Complete Spartan 730 noise dosimeter kit that includes quantity 'xx' dosimeters. Each dosimeter includes one windscreen, two clips, and a calibration certificate. Versions without CAL150 calibrator available.						
	ʻxx'	Spartan 730 Dosimeters	Calibrator (qty 1)	Calibration Adapter (qty 1)	Case		
	01	1	CAL150	ADP109	CCS056		
	03	3	CAL150	ADP109	CCS057		
	05	5	CAL150	ADP109	CCS058		
	10	10	CAL150	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 option 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 17025 factory calibration and certification of Spartan 730						
ADP109	Calibrator adaptor for ½ in. to ¼ in. opening. Used with Spartan 730						



Mechanical

Ingress Protection

Display

Keys Weight

Dimensions

3425 Walden Avenue, Depew, NY 14043 USA

larsondavis.com | sales@larsondavis.com | 888 258 3222 | +1 716 926 8243

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DS-0199 revD 0624

Aufgrund laufender Weiterentwicklungen sind Änderungen der Spezifikationen vorbehalten. Alle Angaben vorbehaltlich Satz- und Druckfehler.

Color LCD 176 x 176 pixels, always on with low light sensor and front light

IP65 Four buttons

112 g (4.2 oz.) including clips and windscreen $85 \times 54 \times 39$ mm (3.35 $\times 2.13 \times 1.54$ in.) dosimeter only

