







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.

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	1 second samples			
Logged data	L _{Aeq} , L _{Ceq} , L _{Cpeak} , L _{Zpeak} , L _{ASmax} , L _{AFmax} , TWA3, TWA5, Motion			
Memory	8 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 \	/alues (Common to all virtual dosimeters)			
ω = A, C, or Z frequ T = F, S, or I time w Lpeak, Lmax, & Lmin L _{C-A} , Exposure (Pa ² s &	reighting including time of occurrence & Pa²h), Motion time for 2 rms and 3 peak thresholds			
Mechanical				
Display	Color LCD 176 x 176 pixels, always on with low light sensor and front light			

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	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 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		
	01	1	CAL150	1 x ADP109	CCS056		
	03	3	CAL150	2 x ADP109	CCS057		
	05 10	5 10	CAL150 CAL150	2 x ADP109 2 x ADP109	CCS058 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 $1\!\!\!/2$ in. to $1\!\!\!/4$ in. opening. Used with Spartan 730						
DVX016	USB to Bluetooth dongle used with Spartan 730						



Ingress Protection

Keys

Weight

Dimensions

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sensor and front light

IP65

Four buttons

112 g (4.2 oz.) including clips and windscreen

85 x 54 x 39 mm (3.35 x 2.13 x 1.54 in.) dosimeter only

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Hochwertige Messtechnik und Beratung aus einer Hand



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