

Advanced Test Equipment Corp. www.atecorp.com 800-404-ATEC (2832)









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-OB1)

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.

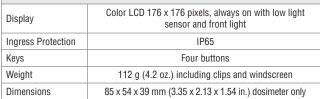
To begin testing, simply remove the dosimeters from their rugged case and attach them to workers. After a shift, place the dosimeters back in the case where they will charge wirelessly and the data files can be downloaded. Built-in measurement of motion and bumps, combined with optional event audio recordings 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.

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	3 - , , , , , , , , , , , , , , , , , ,				
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 Va	lues (Common to all virtual dosimeters)				
$\begin{split} L_{\omegaT} &(SPL), \;\; L_{\omegaeq} (Leq), \\ &\omega = A, C, or Z frequer \\ &T = F, S, or I time wei \\ Lpeak, Lmax, \& Lmin in \\ L_{C-A'} &Exposure (Pa^2s \&I Im C) \end{split}$	L _{wpk} (Lpeak), L _{wTMax} (Lmax), L _{wTMin} (Lmin) where ncy weighting ighting cluding time of occurrence				

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 Filte	ers (optiona	I)					
Standards		ANSI/ASA S1.11-2014; IEC 61260-1:2014 Class 1					
Filters		31.5 Hz to 8 kHz					
Linear Operatin Range	g	42 to 140 dB @ 1 kHz					
Measured Resu	Its	L _{Zeq} (Leq), L _{ZTMax} (Lmax), L _{ZTMin} (Lmin)					
Event Audio Re	ecording (o	otional)					
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 7	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		
	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	SI	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, 1% in. opening with 1% 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 $\ensuremath{\cancel{1}}$ in. to $\ensuremath{\cancel{1}}$ in. opening. Used with Spartan 730						
DVX016	USB to Bluetooth dongle used with Spartan 730						

SPECIFICATIONS (CONTINUED)





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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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