## NOISE DOSIMETER

Model: DS-2013SD *ISO-9001, CE, IEC1010* 











## SD card data recorder

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* Personal sound exposure meet IEC 61252				
* Frequency and Time weighting are designed to meet				
IEC 61672 class 2.				
* A & C weighting networks comply with standards.				
* LCD is dot-matrix with backlight and easy reading.				
* Combination Dose meter, Data-logger and Sound level meter.				
* 0.5" standard microphone head.				
* Time weighting (Fast & Slow) dynamic characteristic modes.				
* Build External calibration VR.				
* User-defined measurement configurations. Selectable				
Criterion Level,				
* Exchange Rate, Threshold, Frequency Weighting, and				
Response Time setting.				
* Condenser microphone for high accuracy & long-term stability.				
* Memory function to store the Max. & Min. value.				
* Hold functions.				
* Real time Datalogger				
Records device of internal memory device (EEPROM) and				
an external memory device (SD memory card), Real				
time Datalogger, it Built-in Clock and Calendar, real time				
data recorder, sampling time set from 1 second to 3600				
seconds.				
* Manual datalogger is available ( set the sampling time to 0				
second).				
* Innovation and easy operation, computer is not need to				
setup extra software, after execute datalogger, just take				
away the SD card from the meter and plug in the SD card				
into the computer, it can download the all the measured				
value with the time information ( year/month/date/				
hour/minute/second ) to the Excel directly, then user can				
make the further data or graphic analysis by themselves.				
* SD card capacity: 1 GB to 16 GB.				
* Can default auto power off or manual power off.				
* Noise Dose % , SPL measurements.				
* Microcomputer circuit, high accuracy.				
* Power by UM4/AAA ( 1.5 V ) x 6 batteries or DC 9V adapter.				
* RS232/USB PC COMPUTEF1				
* Heavy duty & compact housing case.				

## SPECIFICATIONS

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Circuit	Custom one-chip of microprocessor LSI			
	circuit.			
Display	LCD size: 50 mm x 30 mm LCD with green backlight (ON/OFF).			
Measurement	SPL : Sound pressure level			
Туре	Dose : test noise exposure			
Measurement	SPL: Auto 30 - 130 dB.			
Range	Dose: 70~130dB			
Resolution	0.1 dB.			
Function	dB ( A & C frequency weighting ), Time weighting ( Fast, Slow ), Data hold			
I diletion				
	Record ( Max., Min. ).			
Accuracy	Characteristics of " A " frequency weighting			
(23 ± 5 °C)	network meet IEC 61672 class 2.			
	Under 94 dB input signal, the accuracy			
	are :			
	31.5 Hz ± 3.5 dB			
	63 Hz ± 2.5 dB			
	125 Hz ± 2.0 dB			
	250 Hz ± 1.9 dB			
	500 Hz ± 1.9 dB			
	1 K Hz ± 1.4 dB			
	2 K Hz ± 2.6 dB			
	4 K Hz ± 3.6 dB			
	8 K Hz ± 5.6 dB			
	0 K HZ   ± 5.0 UB			
	Domark .			
	Remark:			
	The above spec. are tested under the environment RF Field Strength less			
	than 3 V/M & frequency less than 30			
	MHz only.			
Frequency	Characteristics of A & C.			
Weighting				
Network	A weighting :			
	The characteristic is simulated as "Human			
	Ear Listing" response. Typical, if making			
	the environmental sound level			
	measurement, always select to A			
	weighting.			
	Worgining.			
	Cwaighting			
	C weighting			
	The characteristic is near the "FLAT"			
	response. Typical, it is suitable for			
	checking the noise of machinery (Q.C.			
	check) & knowing the sound pressure			
1	level of the tested equipment			

Time	Fast - t :	= 125 ms	
weighting		range is simulated the human ear	
(FAST & SLOW)		nse time weighting.	
	Slow - t = 1 s		
	* "Slow" range is easy to get the average values of vibration sound level.		
Data hold	To freeze the measurement value.		
Function selector			
SPL	Auto range: 30~130dB.		
DOSE	Threshold Level (Thr): 70~90dB in 1dB steps. Criterion Level(Crit): 80 \cdot 84 \cdot 85 \cdot 90dB.		
	Exchange Rati: 3, 4, 5 or 6 dB		
Frequency	31.5 to 8,000 Hz.		
Microphone	Electric condenser microphone.		
type Microphone size	Out size, 12.7 mm DIA. ( 1/2 inch).		
Calibration VR	Build in external calibration VR, easy to		
	calibrate on 94 dB level by screw driver.		
	* Calibrated via external SOUND		
0 - 111 1	CALIB	RATOR ( SC-942, optional ).	
Calibrator		ruel & kjaer), MULTIFUNCTION IC CALIBRATOR Type 4226.	
Datalogger	Auto	1 second to 3600 seconds	
Sampling Time		@ Sampling time can set to 1 second,	
Setting range		but memory data may loss.	
	Manual	Push the data logger button	
		once will save data one time.  @ Set the sampling time to	
		0 second.	
Memory device	internal	memory device :	
_	EEPRO	OM can be record 16,000 items.	
		memory device ( AC Adapter only ) :	
Data arrar no		mory card. 1 GB to 16 GB.	
Data error no. Advanced		no. of total saved data typically. ock time ( Year / Month / Date, Hour	
setting	/ Minute / Second )		
		ampling time	
		ower OFF management	
		ep Sound ON/OFF	
		al point of SD card setting	
	* SD memory card Format * Frequency weighting to A or C setting		
Over Indication	Show " ".		
Data Hold		ne display reading.	
Memory Recall	Maximum & Minimum value.		
Sampling Time of Display	Approx. 1 second.		
Data Output	RS 232/USB PC computer interface.		
·	* Connect the optional RS232 cable		
	UPCB-02 will get the RS232 plug.		
	* Connect the optional USB cable		
Power off	USB-01 will get the USB plug. Auto shut off saves battery life or		
		off by push button.	
Operating	0 to 50 °		
Temperature			
Operating	Less tha	n 85% R.H.	
Humidity Power Supply	* Alkalie	e or heavy duty DC 1.5 V battery	
i ower suppry		, AAA ) x 6 PCs, or equivalent.	
		adapter input.	
	ļ.,		
Power Current		operation ( w/o SD card save	
		LCD Backlight is OFF) : x. DC 16 mA.	
		SD " save the data but and	
		klight is OFF) :	
	Appro	x. DC 35 mA.	
		backlight on, the power	
		mption will increase approx.	
Weight	DC 8 mA. 250 g/ 0.55 LB. (without battery)		
Dimension		x 32 mm.	
	(5.2 x 3.1 x 1.3 inch ).		
Accessories	* Instruction manual1 PC		
Included		arrying case, CA-05A1 PC	
	* Hangi	ohone with clip	
	* AC to	DC 9V adapter1 PC	
Optional		calibrator (94 dB), SC-941.	
Accessories	* Sound calibrator ( 94/114 dB ), SC-942.		
		wind shield ball, SB-01	
	* SD Card. * USB cable, USB-01.		
		able, USB-01. cable, UPCB-02.	
		Acquisition software, SW-U801-WIN.	
change without no		data Acquisition software, SW-E802.	