## SD Card real time data recorder INTEGRATING SOUND LEVEL METER class 1

Model: SL-4036SD

ISO-9001, CE, IEC1010







LUTRON ELECTRONIC

The Art of Measurement

## SD Card real time data recorder INTEGRATING SOUND LEVEL METER class 1 Model : SL-4036SD

## FEATURES

Real time recorder, save the data into the SD memory card			
and can be downloaded to the Excel, extra softwareis no need.			
* Frequency and Time weighting are designed to meet IEC 61672 class 1,			
IEC 60804 type 1, ANSI S 1.43 type 1.			
Measuuring modes : SPL, Leq.			
Auto range : 30 - 130 dB.			
Tow Manual range :			
30 - 80 dB, 80 - 130 dB.			
A / C frequency weighting.			
Fast / Slow Time weighting.			
Dot matric LCD with backlight.			
RS232/USB PC COMPUTER interface.			
Optional wind shield ball, SB-01.			
Power by UM3/AA ( 1.5 V ) x 6 batteries or DC 9V adapter.			
SD card capacity : 1 GB to 16 GB.			
Optional acqustion softweres, SW-US801-WIN, SW-E802			
Microcomputer circuit, high accuracy.			
Patented.			

## Specifications

Circuit	Custom one-chip of microprocessor LSI			
	circuit.			
Display	LCD size : 51 mm x 30 mm			
	LCD with green backlight ( ON/OFF ).			
Measurement	SPL : Sound pressure level			
Туре	Leg : Equivalent Continuous Noise Level			
Measurement	30 - 130 dB.			
Range Resolution	0.1 dB.			
Function				
Function	dB (A & C frequency weighting ),			
	Time weighting ( Fast, Slow ), Peak hold, Data hold			
	Record (Max., Min.).			
Accuracy	Characteristics of " A "," C " frequency			
(23 ±5 ℃)	weighting network meet ANSI S1.4-2014 /			
(23 IO ()	IEC 61672 -1 : 2013 class 1			
	Under 94 dB input signal, the accuracy			
	are :			
	31.5 Hz ±1.5 dB			
	63 Hz ±1.0 dB			
	125 Hz ±1.0 dB			
	250 Hz ±1.0 dB			
	500 Hz ±1.0 dB			
	1 K Hz ±0.7 dB			
	2 K Hz ±1.0 dB			
	4 K Hz ±1.0 dB			
	8 K Hz +1.5 dB, -2.5dB			
	12.5 Hz +2.0 dB, -5.0dB			
	16 K Hz +2.5 dB, -16.0dB			
	Remark :			
	The above spec. are tested under the environment RF Field Strength less			
	than 3 V/M & frequency less than 30			
	MHz only.			
	Winz only.			
Frequency	Characteristics of A & C.			
Weighting	A weighting :			
Network	The characteristic is simulated as "Human			
	Ear Listing" response. Typical, if making the environmental sound level			
	measurement, always select to A			
	weighting.			
	5 5			
	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			
	level of the tested equipment.			
Time	Fast - t = 125 ms			
weighting	* "Fast" range is simulated the human ear			
(Fast & Slow)	response time weighting. Slow - t = 1 s			
	Slow - t = 1 s * "Slow" range is easy to get the average			
	values of vibration sound level.			
	* Proposal to test FAST & SLOW Function ,Please use			
	the manual range mode			
Data hold	To freeze the measurement value.			
Peak hold	To keep the peak ( max. ) measurement			
	value.			

Range selector	Auto range Manual ran		
	Manual range : 2 range 30 to 80 dB		
	2 range, 30 to 80 dB, 80 to 130 dB, 50 dB on each step,		
		er & under range indicating.	
Frequency	31.5 to 16,		
Microphone	Electric cor	ndenser microphone.	
type Microphone	Outsize 1	2.7 mm DIA (1/2 inch)	
size	Out size, 12.7 mm DIA. ( 1/2 inch).		
Data error no.	$\leq$ 0.1 % no. Of total saved data typically.		
Calibration VR		ernal calibration VR, easy to	
		n 94 dB level by screw driver.	
		ed via external SOUND	
Calibrator		ATOR ( SC-942, optional ). el & kjaer), MULTIFUNCTION	
Calibrator		C 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.	
		Manual mode, can also select the	
	0.0	1 to 99 position ( Location ) no.	
Memory Card		y card. 1 GB to 16 GB.	
Advanced		ck time (Year/Month/Date,Hour/Minute/ Second )	
setting		pling time ver OEE management	
		ver OFF management o Sound ON/OFF	
	<ul> <li>Decimal point of SD card setting</li> <li>SD memory card Format</li> </ul>		
		ncy weighting to A or C setting	
Over Indication	Show " ".		
Data Hold	Freeze the display reading.		
Memory Recall	Maximum & Minimum value.		
Sampling Time	Approx. 1 second.		
of Display			
Data Output	RS 232/US	B PC computer interface.	
	* Connect the optional RS232 cable		
	UPCB-02 will get the RS232 plug.		
		t the optional USB cable	
		will get the USB plug.	
AC output	AC 0.5 Vrms corresponding to each		
	range step	npedance : 600 ohm.	
Power off		off saves battery life or	
	manual off by push button.		
Operating	0 to 50 ℃.	· ·	
Temperature			
Operating	Less than 85% R.H.		
Humidity	+ +		
Power Supply Power Current		or heavy duty DC 1.5 V battery	
	(UM3, AA) x 6 PCs, or equivalent.		
	* DC 9V adapter input. ( AC/DC power adapter is optional )		
	adapter is optional ). Normal operation ( w/o SD card save		
	data and L	CD Backlight is OFF) :	
	Approx. DC 8.2 mA.		
	When SD card save the data but and		
	LCD Backlight is OFF) :		
	Approx. DC 34 mA. * If LCD backlight on, the power		
	consumption will increase approx.		
	6 mA.		
Weight	323 g/0.71		
Dimension	$245 \times 68 \times 10^{-10}$		
Accessories		(1.8 inch ). ion manual	
Included		Irrying case, CA-06	
	* Sound calibrator ( 94 dB ), SC-941.		
Optional		calibrator ( 94/114 dB ), SC-942.	
		wind shield ball, SB-01	
Optional	* Sound v		
Optional	* Sound v * SD Car	d ( 4 GB )	
Optional	* Sound v * SD Car * USB ca	d ( 4 GB ) ble, USB-01.	
Optional	* Sound v * SD Car * USB ca * RS232	d ( 4 GB ) ble, USB-01. cable, UPCB-02.	
Optional	* Sound v * SD Can * USB ca * RS232 * Data Ac	d ( 4 GB ) ble, USB-01.	
Optional	<ul> <li>* Sound v</li> <li>* SD Can</li> <li>* USB can</li> <li>* RS232</li> <li>* Data Ac</li> <li>SW-U80</li> <li>* AC to D</li> </ul>	d ( 4 GB ) ble, USB-01. cable, UPCB-02. quisition software,	

Spec. tested under the environment RF Field Strength less than 3 V/M & frequency less than the 30 MHz only.