SD Card data recorder NOISE DOSINETER Model : DS-2013SD ISO-9001, CE, IEC1010

Lutron DS-2013SD Measures % Noise Dose / Exposure Time / Sound Level SD Card Data Logger RS232 / USB Computer Interface INT, TYPE MODE POWER RUN RESET ENTER TIME LOG SELECT NOISE DOSIMETER / data recorder Carrying case (included)





SD card data recorder

NOI SE DOSI METER Model : DS-2013SD

FEATUREO				
FEATURES * Personal sound	exposure meet IEC 61252	Time	Fast - t =	125 ms
Frequency and Time weighting are designed to meet IEC 61672 class 2.		weighting (FAST & SLOW)	 "Fast" range is simulated the human ear response time weighting. 	
* A & C weighting networks comply with standards.			Slow - t =	
	rix with backlight and easy reading.			range is easy to get the average
 Combination Dose meter, Data-logger and Sound level meter. * 0.5" standard microphone head. 		Data hold	values of vibration sound level. To freeze the measurement value.	
	(Fast & Slow) dynamic characteristic modes.	Function selector	10 116626	the measurement value.
Build External of		SPL	Auto rang	ge:30~130dB.
* User-defined measurement configurations. Selectable		DOSE		d Level (Thr) : 70 \sim 90dB in 1dB steps
Criterion Level,				Level(Crit) : 80 \ 84 \ 85 \ 90dB.
	, Threshold, Frequency Weighting, and	Frequency		PRati: 3, 4, 5 or 6 dB
Response Time setting. * Condenser microphone for high accuracy & long-term stability.		Microphone	31.5 to 8,000 Hz. Electric condenser microphone.	
	on to store the Max. & Min. value.	type		
* Hold functions.		Microphone	Out size, 12.7 mm DIA. (1/2 inch).	
Real time Data	logger of internal memory device (EEPROM) and	size Calibration VR	Duild in a	external calibration VR, easy to
	mory device (SD memory card) ,Real	Calibration Vh		on 94 dB level by screw driver.
time Datalogger, it Built-in Clock and Calendar, real time			* Calibrated via external SOUND CALIBRATOR (SC-942, optional). B & K (Bruel & kjaer), MULTIFUNCTION	
data recorder, sampling time set from 1 second to 3600				
seconds.		Calibrator		
* Manual datalogger is available (set the sampling time to 0 second).		Datalogger	ACOUSTI Auto	C CALIBRATOR Type 4226. 1 second to 3600 seconds
	d easy operation, computer is not need to	Sampling Time	Auto	a second to 3600 seconds @Sampling time can set to 1 seconds
	tware, after execute datalogger, just take	Setting range		but memory data may loss.
away the SD ca	ard from the meter and plug in the SD card		Manual	Push the data logger button
	ter, it can download the all the measured			once will save data one time.
	time information (year/month/date/ econd) to the Excel directly, then user can			@Set the sampling time to 0 second.
	er data or graphic analysis by themselves.	Memory device	internal n	nemory device :
	ty : 1 GB to 16 GB.			M can be record 16,000 items.
Can default aut	o power off or manual power off.		external i	memory device (AC Adapter only):
	· SPL measurements.	-		nory card. 1 GB to 16 GB.
* Microcomputer circuit, high accuracy.		Data error no.		no. of total saved data typically.
* RS232/USB PC	AAA (1.5 V) x 6 batteries or DC 9V adapter.	Advanced setting		ck time (Year / Month / Date,Hour te / Second)
	compact housing case.	9		mpling time
	· · · · · · · · · · · · · · · · · · ·		* Auto p	ower OFF management
SPECI FI CATI O		,		ep Sound ON/OFF
Circuit	Custom one-chip of microprocessor LSI		1* Decime	al point of SD card setting
Diantau	atum da			
Display	circuit.		* SD me	mory card Format
Display	circuit. LCD size : 50 mm x 30 mm LCD with green backlight (ON/OFF).	Over Indication	* SD me	mory card Format ency weighting to A or C setting
	LCD size : 50 mm x 30 mm LCD with green backlight (ON/OFF). SPL : Sound pressure level	Data Hold	* SD me * Freque Show " - Freeze th	mory card Format ency weighting to A or C setting ". ne display reading.
Measurement Type	LCD size : 50 mm x 30 mm LCD with green backlight (ON/OFF). SPL : Sound pressure level Dose : test noise exposure	Data Hold Memory Recall	* SD me * Freque Show " - Freeze th Maximum	mory card Format ncy weighting to A or C setting " e display reading. t & Minimum value.
Measurement Type Measurement	LCD size : 50 mm x 30 mm LCD with green backlight (ON/OFF). SPL : Sound pressure level Dose : test noise exposure SPL : Auto 30 - 130 dB.	Data Hold Memory Recall Sampling Time	* SD me * Freque Show " - Freeze th	mory card Format ncy weighting to A or C setting " e display reading. t & Minimum value.
Measurement Type Measurement Range	LCD size : 50 mm x 30 mm LCD with green backlight (ON/OFF). SPL : Sound pressure level Dose : test noise exposure SPL : Auto 30 - 130 dB. Dose : 70~130dB	Data Hold Memory Recall Sampling Time of Display	* SD me * Freque Show " - Freeze th Maximum Approx. 1	mory card Format ncy weighting to A or C setting ". ne display reading. a Minimum value. I second.
Measurement Type Measurement Range Resolution	LCD size : 50 mm x 30 mm LCD with green backlight (ON/OFF). SPL : Sound pressure level Dose : test noise exposure SPL : Auto 30 - 130 dB.	Data Hold Memory Recall Sampling Time	* SD met * Freque Show " - Freeze th Maximum Approx. 1 RS 232/L	mory card Format ncy weighting to A or C setting " e display reading. t & Minimum value.
Measurement Type Measurement Range Resolution	LCD size : 50 mm x 30 mm LCD with green backlight (ON/OFF). SPL : Sound pressure level Dose : test noise exposure SPL : Auto 30 - 130 dB. Dose : 70~130 dB 0.1 dB. dB (A & C frequency weighting), Time weighting (Fast, Slow),	Data Hold Memory Recall Sampling Time of Display	* SD mei * Freque Show " - Freeze th Maximum Approx. 1 RS 232/L * Connec UPCB-0	mory card Format ncy weighting to A or C setting ". e display reading. 1 & Minimum value. I second. ISB PC computer interface. ct the optional RS232 cable D2 will get the RS232 plug.
Measurement Type Measurement Range Resolution	LCD size : 50 mm x 30 mm LCD with green backlight (ON/OFF). SPL : Sound pressure level Dose : test noise exposure SPL : Auto 30 - 130 dB. Dose : 70~130 dB. 0.1 dB. dB (A & C frequency weighting), Time weighting (Fast, Slow), Data hold	Data Hold Memory Recall Sampling Time of Display	* SD mei * Freque Show " - Freeze th Maximum Approx. 1 RS 232/L * Connec UPCB-C * Connec	mory card Format ncy weighting to A or C setting e display reading. a Minimum value. I second. ISB PC computer interface. at the optional RS232 cable 12 will get the RS232 plug. at the optional USB cable
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Measurement Type Measurement Range Resolution Function	LCD size : 50 mm x 30 mm LCD with green backlight (ON/OFF). SPL : Sound pressure level Dose : test noise exposure SPL : Auto 30 - 130 dB. Dose : 70~130dB 0.1 dB. dB (A & C frequency weighting), Time weighting (Fast, Slow), Data hold Record (Max., Min.). Characteristics of " A " frequency weighting	Data Hold Memory Recall Sampling Time of Display	* SD mei * Freque Show " - Freeze th Maximum Approx. 1 RS 232/L * Connec UPCB-(* Connec USB-01 Auto shut	mory card Format ney weighting to A or C setting ". te display reading. the Minimum value. I second. ISB PC computer interface. to the optional RS232 cable 12 will get the RS232 plug. to the optional USB cable 1 will get the USB plug. t off saves battery life or
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Measurement Type Measurement Range Resolution Function	LCD size : 50 mm x 30 mm LCD with green backlight (ON/OFF). SPL : Sound pressure level Dose : test noise exposure SPL : Auto 30 - 130 dB. Dose : 70~130dB 0.1 dB. dB (A & C frequency weighting), Time weighting (Fast, Slow), Data hold Record (Max., Min.). Characteristics of " A " frequency weighting	Data Hold Memory Recall Sampling Time of Display Data Output Power off Operating Temperature	* SD mei * Freque Show " - Freeze th Maximum Approx. 1 RS 232/L * Connec UPCB-C * Connec USB-01 Auto shui manual o 0 to 50 °C	mory card Format ncy weighting to A or C setting ". le display reading. a & Minimum value. I second. ISB PC computer interface. ct the optional RS232 cable 12 will get the RS232 plug. ct the optional USB cable 1 will get the USB plug. t off saves battery life or ff by push button. C.
Measurement Type Measurement Range Resolution Function	LCD size : 50 mm x 30 mm LCD with green backlight (ON/OFF). SPL : Sound pressure level Dose : test noise exposure SPL : Auto 30 - 130 dB. Dose : 70~130dB 0.1 dB. dB (A & C frequency weighting), Time weighting (Fast, Slow), Data hold Record (Max., Min.). Characteristics of " A " frequency weighting network meet IEC 61672 class 2. Under 94 dB input signal, the accuracy are :	Data Hold Memory Recall Sampling Time of Display Data Output Power off Operating Temperature Operating	* SD mei * Freque Show " - Freeze th Maximum Approx. 1 RS 232/L * Connec UPCB-C * Connec USB-01 Auto shui manual o 0 to 50 °C	mory card Format ney weighting to A or C setting ". te display reading. A Minimum value. I second. ISB PC computer interface. At the optional RS232 cable 22 will get the RS232 plug. At the optional USB cable I will get the USB plug. I off saves battery life or If by push button.
Measurement Type Measurement Range Resolution Function Accuracy	LCD size : 50 mm x 30 mm LCD with green backlight (ON/OFF). SPL : Sound pressure level Dose : test noise exposure SPL : Auto 30 - 130 dB. Dose : 70~130dB 0.1 dB. dB (A & C frequency weighting), Time weighting (Fast, Slow), Data hold Record (Max., Min.). Characteristics of " A" frequency weighting network meet IEC 61672 class 2. Under 94 dB input signal, the accuracy are : 31.5 Hz ± 3.5 dB	Data Hold Memory Recall Sampling Time of Display Data Output Power off Operating Temperature Operating Humidity	* SD mei * Freque Show " - Freque II Maximum Approx. 1 RS 232/L * Connec UPCB-(* Connec USB-01 Auto shui manual o 0 to 50 °C Less thar	mory card Format ney weighting to A or C setting ". the display reading. A Minimum value. I second. ISB PC computer interface. A the optional RS232 cable 22 will get the RS232 plug. A the optional USB cable I will get the USB plug. t off saves battery life or ff by push button. 1 85% R.H.
Measurement Type Measurement Range Resolution Function	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	Data Hold Memory Recall Sampling Time of Display Data Output Power off Operating Temperature Operating	* SD mei * Freque Show " - Freeze th Maximum Approx. 1 RS 232/L * Connec UPCB-(* Connec USB-01 Auto shut manual o 0 to 50 °C Less thar * Alkalin	mory card Format ncy weighting to A or C setting ". e display reading. 1 & Minimum value. I second. ISB PC computer interface. ct the optional RS232 cable D2 will get the RS232 plug. ct the optional USB cable I will get the USB plug. t off saves battery life or ff by push button. C. a 85% R.H. e or heavy duty DC 1.5 V battery
Measurement Type Measurement Range Resolution Function	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	Data Hold Memory Recall Sampling Time of Display Data Output Power off Operating Temperature Operating Humidity	* SD mei * Freque Show " - Freque Approx. 1 RS 232/L * Connec USP-01 Auto shut manual o 0 to 50 (Less thar * .Alkalini (UM4,	mory card Format incy weighting to A or C setting e display reading. A Minimum value. I second. ISB PC computer interface. at the optional RS232 cable 22 will get the RS232 plug. at the optional USB cable 12 will get the USB plug. at the optional USB cable 1 will get the USB plug. at off saves battery life or at f saves battery life or at 55% R.H. e or heavy duty DC 1.5 V battery AAA) x 6 PCs, or equivalent.
Measurement Type Measurement Range Resolution Function	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	Data Hold Memory Recall Sampling Time of Display Data Output Power off Operating Temperature Operating Humidity	* SD mei * Freque Show " - Freque Approx. 1 RS 232/L * Connec UPCB-(* Connec USB-01 Auto shui manual o 0 to 50 °C Less thar * .Alkalini, (UM4, * .DC 9V	mory card Format ncy weighting to A or C setting ". e display reading. 1 & Minimum value. I second. ISB PC computer interface. ct the optional RS232 cable D2 will get the RS232 plug. ct the optional USB cable I will get the USB plug. t off saves battery life or ff by push button. C. a 85% R.H. e or heavy duty DC 1.5 V battery
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Measurement Type Measurement Range Resolution Function	$eq:linear_line$	Data Hold Memory Recall Sampling Time of Display Data Output Power off Operating Temperature Operating Humidity Power Supply	* SD mei * Freque Show " - Freque Approx. 1 RS 232/L * Connec UPCB-(* Connec USB-01 Auto shut manual o 0 to 50 °C Less thar * .Alkalini (UM4, * .DC 9V adapte Normal o data and	mory card Format ney weighting to A or C setting
Measurement Type Measurement Range Resolution Function	$eq:linear_line$	Data Hold Memory Recall Sampling Time of Display Data Output Power off Operating Temperature Operating Humidity Power Supply	* SD mei * Freque Show " - Freque Preeze th Maximum Approx. 1 RS 232/L * Connec UPCB-(* Connec UPCB-(* Connec USB-01 Auto shui manual o 0 to 50 °C Less thar * .Alkalini, (UM4, * .DC 9V adapte Normal o data and Approx	mory card Format mcy weighting to A or C setting ". the display reading. the Minimum value. I second. ISB PC computer interface. at the optional RS232 cable 22 will get the RS232 plug. at the optional USB cable 12 will get the USB plug. at the optional USB cable 11 will get the USB plug. at f saves battery life or aff by push button. C. at S5% R.H. e or heavy duty DC 1.5 V battery AAA) x 6 PCs, or equivalent. adapter input. (AC/DC power r is optional). peration (w/o SD card save LCD Backlight is OFF) : . DC 16 mA.
Measurement Type Measurement Range Resolution Function	$eq:linear_line$	Data Hold Memory Recall Sampling Time of Display Data Output Power off Operating Temperature Operating Humidity Power Supply	* SD mei * Freque Show " - Freque IM Maximum Approx. 1 RS 232/L * Connec UPCB-(* Connec USB-01 Auto shui manual o 0 to 50 °C Less thar (UM4, * .DC 9V adapte Normal o data and Approx When " S	mory card Format ney weighting to A or C setting ". the display reading. A Minimum value. I second. ISB PC computer interface. A Minimum value. I second. ISB PC computer interface. A Minimum value. I second. ISB PC computer interface. C the optional RS232 cable D2 will get the RS232 plug. C the optional USB cable I will get the USB plug. t off saves battery life or ff by push button. C. I S5% R.H. e or heavy duty DC 1.5 V battery AAA) x 6 POs, or equivalent. adapter input. (AC/DC power r is optional). peration (w/o SD card save LCD Backlight is OFF) : . DC 16 mA. D " save the data but and
Measurement Type Measurement Range Resolution Function	$eq:linear_line$	Data Hold Memory Recall Sampling Time of Display Data Output Power off Operating Temperature Operating Humidity Power Supply	* SD mei * Freque Show " - Freeze th Maximum Approx. 1 RS 232/L * Connec UPCB-(* Connec USB-01 Auto shui manual o 0 to 50 °C Less thar * Alkalini (UM4, * DC 9V adapte Normal o data and Approx When " S LCD Back	mory card Format ney weighting to A or C setting ". te display reading. A Minimum value. I second. ISB PC computer interface. t the optional RS232 cable D2 will get the RS232 plug. t the optional USB cable I will get the USB plug. t off saves battery life or iff by push button. C. A 85% R.H. e or heavy duty DC 1.5 V battery AAA) x 6 PCs, or equivalent. adapter input. (AC/DC power r is optional). peration (w/o SD card save LCD Backlight is OFF) : c. DC 16 mA. D " save the data but and dight is OFF) :
Measurement Type Measurement Range Resolution Function	$eq:linear_line$	Data Hold Memory Recall Sampling Time of Display Data Output Power off Operating Temperature Operating Humidity Power Supply	* SD mei * Freque Show " - Freque Preeze th Approx. 1 RS 232/L * Connec USP-01 Auto shut manual o 0 to 50 °C Less thar * .Alkalini (UM4, * .DC 9V adapte Normal o data and Approx When " S LCD Back Approx	mory card Format ney weighting to A or C setting ". the display reading. A Minimum value. I second. ISB PC computer interface. A Minimum value. I second. ISB PC computer interface. A Minimum value. I second. ISB PC computer interface. C the optional RS232 cable D2 will get the RS232 plug. C the optional USB cable I will get the USB plug. t off saves battery life or ff by push button. C. I S5% R.H. e or heavy duty DC 1.5 V battery AAA) x 6 POs, or equivalent. adapter input. (AC/DC power r is optional). peration (w/o SD card save LCD Backlight is OFF) : . DC 16 mA. D " save the data but and
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Measurement Type Measurement Range Resolution Function	$\label{eq:loss} \begin{array}{ c c c c c } \hline LCD size : 50 mm x 30 mm \\ \hline LCD with green backlight (ON/OFF). \\ \hline SPL : Sound pressure level \\ \hline Dose : test noise exposure \\ \hline SPL : Auto 30 - 130 dB. \\ \hline Dose : 70~130 dB \\ \hline 0.1 dB. \\ \hline dB (A & C frequency weighting), \\ \hline Time weighting (Fast, Slow), \\ \hline Data hold \\ \hline Record (Max., Min.). \\ \hline Characteristics of "A" frequency weighting network meet IEC 61672 class 2. \\ \hline Under 94 dB input signal, the accuracy are : \\ \hline \hline 31.5 Hz \pm 3.5 dB \\ \hline 63 Hz \pm 2.5 dB \\ \hline 125 Hz \pm 1.9 dB \\ \hline 500 Hz \pm 1.9 dB \\ \hline 1 K Hz \pm 2.6 dB \\ \hline 4 K Hz \pm 2.6 dB \\ \hline 8 K Hz \pm 5.6 dB \\ \hline \end{array} \\ \hline \hline Remark : \\ \hline The above spec. are tested under the environment RF Field Strength less than 3 V/M & frequency less than 30 \\ \hline \end{array}$	Data Hold Memory Recall Sampling Time of Display Data Output Power off Operating Temperature Operating Humidity Power Supply Power Current	* SD mei * Freque Show " - Freque Prezet th Maximum Approx. 1 RS 232/L * Connec UPCB-(* Connec USB-01 Auto shut manual o 0 to 50 °C Less thar * .DC 9V adapte Normal o data and Approx When " S LCD Back Approx * .If LCD consum	<pre>mory card Format ncy weighting to A or C setting ". e display reading. 1 & Minimum value. I second. ISB PC computer interface. ct the optional RS232 cable D2 will get the RS232 plug. ct the optional USB cable I will get the USB plug. t off saves battery life or ff by push button. 1 & 55% R.H. e or heavy duty DC 1.5 V battery AAA) x 6 PCs, or equivalent. adapter input. (AC/DC power r is optional). peration (w/o SD card save LCD Backlight is OFF) : DC 16 mA. D0 " save the data but and dight is OFF) : DC 35 mA. backlight on, the power nption will increase approx. mA.</pre>
Measurement Type Measurement Range Resolution Function Accuracy (23 ± 5 °C)	$eq:linear_line$	Data Hold Memory Recall Sampling Time of Display Data Output Power off Operating Temperature Operating Humidity Power Supply Power Current Weight	 SD mei Freque Show " - Freque Show " - Freque Maximum Approx. 1 RS 232/L Connec USB-01 Auto shul manual o 0 to 50 °C Less thar Alkalini USB-01 Less thar Alkalini UGP adate Approx Mormal o data and Approx Mormal o data and Approx If LCD Back Approx If LCD If LCD g250 g/ 0. 	mory card Format ney weighting to A or C setting
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Measurement Type Measurement Range Resolution Function Accuracy (23 ± 5 °C)	LCD size : 50 mm x 30 mmLCD with green backlight (OV/OFF).SPL : Sound pressure levelDose : test noise exposureSPL : Auto 30 - 130 dB.Dose : T0~130dB0.1 dB.dB (A & C frequency weighting), Time weighting (Fast, Slow), Data holdRecord (Max., Min.).Characteristics of " A " frequency weighting network meet IEC 61672 class 2. Under 94 dB input signal, the accuracy are : $31.5 Hz \pm 3.5 dB$ $125 Hz \pm 2.0 dB$ $250 Hz \pm 1.9 dB$ $1 K Hz \pm 1.4 dB$ $2 K Hz \pm 2.6 dB$ $4 K Hz \pm 3.6 dB$ $8 K Hz \pm 5.6 dB$ Remark : The above spec. are tested under the environment RF Field Strength less than 3 V/M & frequency less than 30 MHz only.Characteristics of A & C. A weighting : The characteristic is simulated as "Human Ear Listing" response. Typical, if making	Data Hold Memory Recall Sampling Time of Display Data Output Power off Operating Temperature Operating Humidity Power Supply Power Current Weight Dimension Accessories	 SD mei Freque Show " - Freque Show " - Freque Maximum Approx. 1 RS 232/L Connec UPCB-(Connec USB-01 Auto shui manual o 0 to 50 °C Less thar Auto shui manual o 0 to 50 °C Less thar Auto shui manual o Q to 50 °C Auto shui manual o Auto shui manual o O to 50 °C Auto shui Mormal o data and Approx When "S LCD Back Approx If LCD consun DC 8 r 250 g/ 0. 132 x 80 (5.2 x 3. * Instruct * Soft ca * Micropi 	mory card Format incy weighting to A or C setting
Measurement Type Measurement Range Resolution Function Accuracy (23 ± 5 °C)	LCD size : 50 mm x 30 mmLCD with green backlight (OV/OFF).SPL : Sound pressure levelDose : test noise exposureSPL : Auto 30 - 130 dB.Dose : To~130dB0.1 dB.dB (A & C frequency weighting), Time weighting (Fast, Slow), Data holdPacord (Max., Min.).Characteristics of "A" frequency weighting network meet IEC 61672 class 2. Under 94 dB input signal, the accuracy are : $31.5 Hz \pm 3.5 dB$ $63 Hz \pm 2.5 dB$ $125 Hz \pm 2.0 dB$ $250 Hz \pm 1.9 dB$ $1 K Hz \pm 1.9 dB$ $1 K Hz \pm 1.9 dB$ $1 K Hz \pm 3.6 dB$ $8 K Hz \pm 5.6 dB$ Remark : The above spec. are tested under the environment RF Field Strength less than 3 V/M & frequency less than 30 MHz only.MHz only.Characteristics of A & C.A weighting : The characteristic is simulated as "Human Ear Listing" response. Typical, if making the environment al sound level	Data Hold Memory Recall Sampling Time of Display Data Output Power off Operating Temperature Operating Humidity Power Supply Power Current Weight Dimension Accessories Included	 SD mei Freque Show " - Freque Show " - Freeze th Maximum Approx. 1 RS 232/L Connec UPOB-(Connec USB-01 Auto shui manual o 0 to 50 °C Less thar Less thar Auto shui manual o 0 to 50 °C Less thar Maximal o Auto shui manual o 0 to 50 °C Less thar LCD Back Approx When " S LCD Back Approx H LCD consun DC 8 r 250 g/ 0. 152 x 80 (5.2 x 3. * Instruct * Soft ca * Micropi Hangin 	mory card Format mcy weighting to A or C setting ". the display reading. A Minimum value. I second. ISB PC computer interface. A Minimum value. I will get the USB plug. I second. I sec
Measurement Type Measurement Range Resolution Function Accuracy (23 ± 5 °C)	LCD size : 50 mm x 30 mmLCD with green backlight (ON/OFF).SPL : Sound pressure levelDose : test noise exposureSPL : Auto 30 - 130 dB.Dose : To~130 dB0.1 dB.dB (A & C frequency weighting),Time weighting (Fast, Slow),Data holdRecord (Max., Min.).Characteristics of " A " frequency weightingnetwork meet IEC 61672 class 2.Under 94 dB input signal, the accuracyare :	Data Hold Memory Recall Sampling Time of Display Data Output Power off Operating Temperature Operating Humidity Power Current Weight Dimension Accessories Included Optional	* SD mei * Freque Show " - Freque IM Maximum Approx. 1 RS 232/L * Connec UPCB-(* Connec USB-07 Auto shui manual o 0 to 50 °C Less thar * Alkalini (UM4, * DC 9V adapte Normal o data and Approx When " S LCD Back Approx Vhen " Sound C 5.2 x 3. * Instruc * Sound * Sound	mory card Format mcy weighting to A or C setting ". te display reading. A Minimum value. I second. ISB PC computer interface. to the optional RS232 cable D2 will get the RS232 plug. to the optional USB cable I will get the USB plug. to ff saves battery life or ff by push button. AS5% R.H. e or heavy duty DC 1.5 V battery AAA) x 6 PCs, or equivalent. adapter input. (AC/DC power r is optional). peration (w/o SD card save LCD Backlight is OFF) : DC 16 mA. D " save the data but and dight is OFF) : DC 35 mA. backlight on, the power nption will increase approx. mA. 55 LB. (without battery) x 32 mm. 1 x 1.3 inch). tion manual
Veasurement Type Weasurement Resolution Function Accuracy (23 ± 5 °C)	LCD size : 50 mm x 30 mmLCD with green backlight (OV/OFF).SPL : Sound pressure levelDose : test noise exposureSPL : Auto 30 - 130 dB.Dose : To~130dB0.1 dB.dB (A & C frequency weighting), Time weighting (Fast, Slow), Data holdPacord (Max., Min.).Characteristics of "A" frequency weighting network meet IEC 61672 class 2. Under 94 dB input signal, the accuracy are : $31.5 Hz \pm 3.5 dB$ $63 Hz \pm 2.5 dB$ $125 Hz \pm 2.0 dB$ $250 Hz \pm 1.9 dB$ $1 K Hz \pm 1.9 dB$ $1 K Hz \pm 1.9 dB$ $1 K Hz \pm 3.6 dB$ $8 K Hz \pm 5.6 dB$ Remark : The above spec. are tested under the environment RF Field Strength less than 3 V/M & frequency less than 30 MHz only.MHz only.Characteristics of A & C.A weighting : The characteristic is simulated as "Human Ear Listing" response. Typical, if making the environment al sound level	Data Hold Memory Recall Sampling Time of Display Data Output Power off Operating Temperature Operating Humidity Power Supply Power Current Weight Dimension Accessories Included	 SD mei Freque Show " - Freque Show " - Freque Show " - Freezet H Maximum Approx. 1 RS 232/L Connec USB-01 Auto shui manual o 0 to 50 °C Less thar Auto shui manual o 0 to 50 °C Less thar Auto shui Mormal o data and Approx Mc 9V adapte Normal o data and Approx Inf LCD consun DC 8 v adapte Soft ca Micropi Hangin Sound Sound 	mory card Format mory weighting to A or C setting
Veasurement Type Weasurement Resolution Function Accuracy (23 ± 5 °C)	LCD size : 50 mm x 30 mm LCD with green backlight (OV/OFF). SPL : Sound pressure level Dose : test noise exposure SPL : Auto 30 - 130 dB. Dose : 70~130dB 0.1 dB. dB (A & C frequency weighting), Time weighting (Fast, Slow), Data hold Record (Max., Min.). Characteristics of " A " frequency weighting network meet IEC 61672 class 2. Under 94 dB input signal, the accuracy are : $\frac{31.5 Hz \pm 3.5 dB}{125 Hz \pm 2.0 dB}$ $250 Hz \pm 1.9 dB$ $1 K Hz \pm 1.4 dB$ $2 K Hz \pm 2.6 dB$ $4 K Hz \pm 3.6 dB$ $8 K Hz \pm 5.6 dB$ Remark : The above spec. are tested under the environment RF Field Strength less than 3 V/M & frequency less than 30 MHz only. Characteristic is simulated as "Human Ear Listing" response. Typical, if making the environmental sound level measurement, always select to A weighting.	Data Hold Memory Recall Sampling Time of Display Data Output Power off Operating Temperature Operating Humidity Power Current Weight Dimension Accessories Included Optional	 SD mei Freque Show " - Freque Show " - Freque Maximum Approx. 1 RS 232/L Connec UPCB-(Connec USB-01 Auto shui manual o 0 to 50 °C Less thar Auto shui manual o 0 to 50 °C Less thar Auto shui manual o data and Approx When " S LCD Back Approx Mcropl Back Approx If LCD consun DC 8 r 250 g/ 0. 132 x 80 (.5.2 x 3. * Instruct * Soft ca Micropi Hangin * Sound * Sound 	mory card Format incy weighting to A or C setting
Measurement Type Measurement Range Resolution Function	LCD size : 50 mm x 30 mmLCD with green backlight (ON/OFF).SPL : Sound pressure levelDose : test noise exposureSPL : Auto 30 - 130 dB.Dose : To~130 dB0.1 dB.dB (A & C frequency weighting),Time weighting (Fast, Slow),Data holdRecord (Max., Min.).Characteristics of " A " frequency weightingnetwork meet IEC 61672 class 2.Under 94 dB input signal, the accuracyare :	Data Hold Memory Recall Sampling Time of Display Data Output Power off Operating Temperature Operating Humidity Power Current Weight Dimension Accessories Included Optional	* SD mei * Freque Show " - Freque Preeze th Agprox. 1 RS 232/L * Connec UPCB-(* Connec USB-0' Auto shui manual o 0 to 50 °C Less thar (UM4, * DC 9V adapte Normal o data and Approx When " S LCD Back Approx When " S LCD Back Approx * If LCD consun DC 8 r 250 g/ 0. 132 x 80 (5.2 x 3. * Instruc * Sound * Sound * Sound * Sound * Sound	mory card Format mory card Format mory weighting to A or C setting
Measurement Type Measurement Resolution Function Accuracy (23 ± 5 °C)	LCD size : 50 mm x 30 mmLCD with green backlight (ON/OFF).SPL : Sound pressure levelDose : test noise exposureSPL : Auto 30 - 130 dBDose : $70 \sim 130 dB$ 0.1 dB.dB (A & C frequency weighting),Time weighting (Fast, Slow),Data holdRecord (Max., Min.).Characteristics of " A " frequency weightingnetwork meet IEC 61672 class 2.Under 94 dB input signal, the accuracyare : $31.5 Hz \pm 3.5 dB$ $63 Hz \pm 2.6 dB$ $125 Hz \pm 1.9 dB$ $500 Hz \pm 1.9 dB$ $500 Hz \pm 1.9 dB$ $1 K Hz \pm 2.6 dB$ $1 K Hz \pm 3.6 dB$ $8 K Hz \pm 5.6 dB$ Remark :The above spec. are tested under theenvironment RF Field Strength lessthan 3 V/M & frequency less than 30MHz only.Characteristics of A & C.A weighting :The characteristic is simulated as "HumanEar Listing" response. Typical, if makingthe environment al sound levelmeasurement, always select to Aweighting. <i>C weighting</i> The characteristic is near the "FLAT"response. Typical, it is suitable for	Data Hold Memory Recall Sampling Time of Display Data Output Power off Operating Temperature Operating Humidity Power Current Weight Dimension Accessories Included Optional	 SD mei Freque Show " - Freque Show " - Freque Show " - Freque Maximum Approx. 1 RS 232/L Connec USB-01 Auto shui manual o 0 to 50 (C Less thar Auto shui manual o 0 to 50 (C Less thar Auto shui Mormal o data and Approx Mc 9V adapte Normal o data and Approx Inf LCD consun DC 8 (C x 80 (5.2 x 3.3) * Instruct Soint a Sound Sound Sound Sound Such 2x RS232 	mory card Format ney weighting to A or C setting
Measurement Type Measurement Range Resolution Function Accuracy (23 ± 5 °C)	LCD size : 50 mm x 30 mm LCD with green backlight (ON/OFF). SPL : Sound pressure level Dose : test noise exposure SPL : Auto 30 - 130 dB. Dose : 70~130dB 0.1 dB. dB (A & C frequency weighting), Time weighting (Fast, Slow), Data hold Record (Max., Min.). Characteristics of " A " frequency weighting network meet IEC 61672 class 2. Under 94 dB input signal, the accuracy are : $\frac{31.5 Hz \pm 3.5 dB}{63 Hz \pm 2.5 dB}$ $\frac{125 Hz \pm 2.0 dB}{250 Hz \pm 1.9 dB}$ $1 K Hz \pm 1.4 dB$ $2 K Hz \pm 2.6 dB$ $4 K K Hz \pm 3.6 dB$ $8 K Hz \pm 5.6 dB$ Remark : The above spec. are tested under the environment RF Field Strength less than 3 V/M & frequency less than 30 MHz only. Characteristics of A & C. A weighting : The characteristic is simulated as "Human Ear Listing" response. Typical, if making the environmental sound level measurement, always select to A weighting. <i>C weighting</i> The characteristic is near the "FLAT" response. Typical, it is suitable for checking the noise of machinery (Q.C.	Data Hold Memory Recall Sampling Time of Display Data Output Power off Operating Temperature Operating Humidity Power Current Weight Dimension Accessories Included Optional	 SD mei Freque Show " - Freque Show " - Freque Maximum Approx. 1 RS 232/L Connec UPCB-(Connec USB-01 Auto shui manual o 0 to 50 °C Less thar Auto shui manual o 0 to 50 °C Less thar Auto shui manual o Q to 50 °C Less thar Normal o data and Approx When " S LCD Back Approx Instruc Soft ca Soft ca Soft ca Somd Sound 	mory card Format incy weighting to A or C setting
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Time	Fast - t = 125 ms			
weighting	* "Fast" range is simulated the human ear			
(FAST & SLOW)	response time weighting.			
	Slow - $t = 1 s$			
	* "Slow" range is easy to get the average			
Data hold	values of vibration sound level. 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 × 84 × 85 × 90dB.			
_	Exchange Rati : 3, 4, 5 or 6 dB			
Frequency	31.5 to 8,000 Hz.			
Microphone type	Electric condenser microphone.			
Microphone	Out size, 12.7 mm DIA. (1/2 inch).			
size				
Calibration VR	Build in external calibration VR, easy to			
	calibrate on 94 dB level by screw driver.			
	* Calibrated via external SOUND			
Calibrator	CALIBRATOR (SC-942, optional). B & K (Bruel & kjaer), MULTIFUNCTION			
Calibrator	ACOUSTIC 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 :			
,	EEPROM can be record 16,000 items.			
	external memory device (AC Adapter only):			
Data a li	SD memory card. 1 GB to 16 GB.			
Data error no.	≤ 0.1% no. of total saved data typically.			
Advanced setting	* Set clock time (Year / Month / Date, Hour / Minute / Second)			
botting	* Set sampling time			
	* Auto power OFF management			
	* Set beep Sound ON/OFF			
	* Decimal point of SD card setting			
	* SD memory card Format			
Quar Indiantian	* Frequency weighting to A or C setting Show " ".			
Over Indication Data Hold	Freeze the display reading.			
Memory Recall	Maximum & Minimum value.			
Sampling Time	Approx. 1 second.			
of Display				
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			
	USB-01 will get the USB plug.			
Power off	Auto shut off saves battery life or			
	manual off by push button.			
Operating	0 to 50 ℃.			
Temperature	Less then 05% D.U.			
Operating	Less than 85% R.H.			
Humidity Power Supply	* Alkaline or heavy duty DC 1.5 V battery			
ower ouppry	(UM4, AAA) x 6 POs, or equivalent.			
	* .DC 9V adapter input. (AC/DC power			
	adapter is optional).			
Power Current	Normal operation (w/o SD card save			
	data and LCD Backlight is OFF) :			
	Approx. DC 16 mA. When " SD " save the data but and			
	LCD Backlight is OFF) :			
	Approx. DC 35 mA.			
	* If LCD backlight on, the power			
	consumption will increase approx.			
A/	DC8 mA.			
Weight Dimension	250 g/ 0.55 LB. (without battery) 132 x 80 x 32 mm.			
	$(5.2 \times 3.1 \times 1.3 \text{ inch}).$			
Accessories	* Instruction manual1 PC			
Included	* Soft carrying case, CA-05A1 PC			
	* Microphone with clip1 PC			
	* Hanging unit (with sticker)1 PC			
	* Sound calibrator (94 dB), SC-941.			
Optional	* Sound calibrator (94/114 dB), SC-942.			
Optional Accessories				
	* Sound wind shield ball, SB-01			
	 * Sound wind shield ball, SB-01 * SD Card (4 GB) 			
	 * Sound wind shield ball, SB-01 * SD Card (4 GB) * USB cable, USB-01. 			
	 * Sound wind shield ball, SB-01 * SD Card (4 GB) 			
	* Sound wind shield ball, SB-01 * SD Card (4 GB) * USB cable, USB-01. * RS232 cable, UPCB-02.			