	Overview Sound Level Meter Model UT351	and UT352 (hereafter	<ul> <li>Soft cloth and mild detergent should be used to clean the surface of the Meter when servicing. No abrasive</li> </ul>		ational Electrical Symbols
UT351/352	referred to as "the Motor") is a st	able, safe and reliable	and solvent should be used to prevent the surface of the Meter from corrosion, damage and accident.	CE	Conforms to Standards of European Union
SOUND LEVEL METER OPERATING MANUAL	<ul> <li>control, quality control, health care environmental noise testing. For a family, musical instrument and all need noise testing.</li> <li>Unpacking Inspection</li> <li>Open the package case and take the following items carefully to see damaged part:</li> </ul>	and all different kind of example: factory, road, I kind of places which out the Meter. Check	<ul> <li>Constantly check the battery as it may leak when it has been using for some time, replace the battery as soon as leaking appears. A leaking battery will damage the Meter.</li> </ul>	The Me	eter Structure (see figure 1)
	Item Description	Qty			3
	1 English Operating Manua				
	2 Windscreen	1 piece			
	3 1.5V Batteries (AA)	4 pieces			
	In the event you find any missing c contact your dealer immediately.	or damage, please			
5 <u>0.3</u> 2	Rules For Safe Operation	1			
557 Ware ware ware Urses Urses Urses	<ul> <li>Before using the Meter inspect the accessories. Do not use the Meter cannot display, the case (or part or you consider the Meter does not for cracks or missing plastic.</li> <li>When using the Meter, must follor manual.</li> <li>The internal circuit of the Meter will to avoid damage of the Meter</li> <li>Replace the battery as soon as the appears.</li> </ul>	er if it is damaged, LCD of the case) is removed not work properly. Look ow the instruction shall not be altered at r and any accident. he battery indicator		A. Meter	figure 1
	<ul> <li>Turn the Meter power off when it out the battery when not using fo</li> <li>Do not use or store the Meter high temperature, humidity, explastrong magnetic field. The perimay deteriorate after dampened.</li> </ul>	or a long time. in an environment of osive, inflammable and formance of the Meter	2	1	bone
B.Display Symbols (see figure 2)	No. Meaning		Side Panel (see figure 3)	Measu	rement Operation and Functional
	1 Data Store is full			Button	S
	2 Date and Time display	/		Below tab button op	ble indicated for information about the functionation
(14) (13) (12) (11) (10) (9)	3 Data Store 4 Decibel			Button	Operation Performed
	5 C-Weighting			HOLD	• Turn the Meter on and off. Press once
UNDER HOLD FAST SLOW OVER	6 A-Weighting			0	to turn the Meter on. Press and hold for around 1 second to turn the Meter off.
$\left  1 \right\rangle$	7 Sound value display				<ul> <li>HOLD feature: During sound measure</li> </ul>
Junhunhunhunhunh	8 Range display 9 Over range				ment, press once to freeze the current
	9 Over range 10 Slow response				reading in the display. Press the button again to resume normal operation.
	11 Fast response		External DC6V	A/C	During sound measurement, press
	12 Low battery display		DC Output Terminal		A/C button to select "A" or "C" frequency
	13 Data Hold is on		AC Output Terminal		weighting. With "A" weighting selected, the frequency response of the Meter is
	14 Auto power off enable	d	0		similar to the response of the human ear.
	15Under range16Analogue bar graph di	isplay	CAL potentiometer		"A" weighting is commonly used for envi
	17 Symbol of Sound Pres				ronmental or hearing conservation programs 'C" Weighting is a much flatter
	18 Auto ranging enabled				response and is suitable for the sound
21 22 23 (1)	19 Date display		figure 3		level analysis of machines, engines, etc.
	20 Time display				Most noise measurements are performed

figure 2	21     Maximum value display       22     Minimum value display       23     Data Store enabled	<ol> <li>DC Output Terminal: DC analogue signal output. Output impedance is around 100Ω (10mV/dB)</li> <li>AC Output Terminal: AC analogue signal output. Output impedance is around 600Ω (0.707V/ each range scale)</li> <li>CAL potentiometer: Calibration</li> <li>External DC6V:Using power adaptor DC6V, output plug (Ø 3.5) to plug in the terminal. It can use 4pcs of 1.5V batteries or power adaptor to power up the Meter</li> </ol>	<ul> <li>Response.</li> <li>For the Model UT352, press A/C button also could recall and clear data:</li> <li>&gt; RECALL: <ul> <li>Press and hold this button, the LCD displays the last data stored and the index number.</li> <li>Press</li></ul></li></ul>
4	5	6	7

Intel occurring righting states that may accurately indexed set that may are accurately indexed set that ma							
Press for WrAMIN build and in WAA mode was entered.     B	<ul> <li>LEVEL Press to selection of Auto ranging, Manual ranging.</li> <li>The Meter is default to auto ranging.</li> <li>Press LEVEL button to switch to manual ranging. Press Woutton to toggle from low to high range or from high to low range. Press and hold LEVEL button to exit the manual ranging mode.</li> <li>FAST/ SLOW</li> <li>Press to select a FAST (125ms) or a LOW (1 second) response time. Select FAST to capture noise peaks and noises that occur very quickly. Select the LOW response to monitor a sound source that has a consistent noise level or to aver age quickly changing levels. Select LOW response for most application.</li> <li>Press and hold FAST/SLOW button to enable display backlight.</li> <li>For UT352, press FAST/SLOW button to store data:</li> <li>&gt; Press HOLD button to freeze data, the LCD displays HOLD and M symbol and the data being stored.</li> <li>&gt; Press FAST/SLOW to store the data, the symbol RECORD and the number of index blink for 0.5 seconds.</li> <li>&gt; The Meter will automatically exit HOLD mode.</li> <li>&gt; The Meter can store up to 63 data.</li> <li>MAX/ MIN</li> <li>Press MAX/MIN to display the maxi mum or minimum reading. The display will update only when the measured value exceeds the value presently in the display.</li> </ul>		, Manual ing. manual e from low jutton to or a Select d noises le LOW irce that aver ect LOW ton to and hold able 3. putton to data, the mbol and 5. e data, number kit HOLD data. axi isplay e d value e d value e d value	MAX/ MIN       > Press MAX/MIN button again. The MIN icon will appear on the display. The read ing displayed is the lowest reading encountered since the MIN mode was entered.         > Press the MAX/MIN button again to exit the MAX/MIN display mode         ● Press and hold MAX/MIN button to disable or enable auto power off feature. The Meter will automatically off after approximately 15 minutes of inactivity. The & icon display indicates that the auto power off feature is active.         Calibration (see figure 4)         1. Turn the Meter on.         2. Put the Meter in the "A" weighting mode, FAST response mode, range set to 60~110dB, lock to MAX.         3. Place the microphone onto the calibrator's 1/2 inches sound source hole.         4. Turn the Calibrator on, using 94dB@1kHz standard sound source.         5. Adjust the Meter's CAL potentiometer located on the		Figure 4         Specifications         A.General Specifications         • Display: 3 1/2 digits, 1999 maximum         • Overloading:         Under range displays UNDER         Over range displays OVER         • Battery Deficiency:         Change batteries as soon as I is displayed.         • Sampling Rate:         Fast Speed: 125 microseconds         Slow Speed: 1 second         • Microphone: 1/2" electret condenser         • Drop Test: 1 meter pass         • Battery: 4 x 1.5V batteries (AA)         • Battery Life: Typical 20 hours continuous	<ul> <li>For indoor use only.</li> <li>Altitude: 2000m</li> <li>Temperature and humidity:         <ul> <li>&gt; Operating:</li></ul></li></ul>
Function         Range         Resolution         Accuracy         Remarks           A-Weighting and C-Weighting         30-80dB		displayed is the highest reading en- since the MAX mode was entere	countered		9	10	
A-Weighting and C-Weighting       30~80dB       Image: solution of the soluti	Function	Range	Resolution	Accuracy	Remarks		
A Weighting       S04100dB       0.1dB       ±1.5dB       1.16dB       31.5~8kHz       Do not attempt to repair or service your Meter unless you are qualified to do so and have the relevant calibration, performance test, and service information.       1.Press the Meter power off         80~130dB       60~110dB       ±1.5dB       31.5~8kHz       Do not attempt to repair or service your Meter unless you are qualified to do so and have the relevant calibration, performance test, and service information.       1.Press the Meter power off         Sampling Rate       FAST       Sampling Time: 125 microsecond       Not get water inside the case.       Not get water inside the case.       3.Remove the battery door from the battery compartment 4.Replace the battery door and the battery compartment 5.Rejoin the battery door and the battery compartment and install the screw				-			soon as the battery indicator appears.
C-Weighting       60~110dB       0.1db       ±1.3db       31.5~8kHz       you are qualified to do so and have the relevant calibration, performance test, and service information. To avoid electrical shock or damage to the Meter, do not get water inside the case.       2.Remove the screw from the battery compartment, then take out the battery compartment, alibration, performance test, and service information. To avoid electrical shock or damage to the Meter, do not get water inside the case.       2.Remove the screw from the battery compartment, then take out the battery compartment, alibration, performance test, and service information. To avoid electrical shock or damage to the Meter, do not get water inside the case.       2.Remove the screw from the battery compartment, then take out the battery compartment, alibration, performance test, and service information. To avoid electrical shock or damage to the Meter, do not get water inside the case.       2.Remove the screw from the battery compartment, then take out the battery compartment, alibration, performance test, and service information. To avoid electrical shock or damage to the Meter, do not get water inside the case.       3.Remove the battery door and the battery compartment, and install the screw.         Analogue Bar Graph       30-130dB       1 dB per scale,       1 dB per scale,       In order not to affect the Meter housing       5.Rejoin the battery door and the battery compartment and install the screw	A-Weighting a	and 50~100dB				Do not attempt to repair or service your Meter unless	
80~130dB       and and the part of the	C-Weighting	60~110dB	0.1dB	±1.5dB			
Sampling Rate       FAST       Sampling Time: 125 microsecond       To avoid electrical shock or damage to the Meter, do not get water inside the case.       ment.         Suppling Rate       FAST       Sampling Time: 125 microsecond       Not get water inside the case.       3.Remove the battery from the battery compartment         Applopue Rate       Sampling Time: 1 second       1 dB per scale,       In order not to affect the Meter housing       5.Rejoin the battery door and the battery compartment							then take out the battery door from the battery compared
Sampling Rate       Sampling Time: 1 second       Interget watch instruction does in the case.       4. Replace the battery with 4pcs new 1.5V AA batter         Analogue Bar Graph       20-1304P       1 dB per scale,       In order not to affect the Meter housing       4. Replace the battery with 4pcs new 1.5V AA batter					Sampling Time: 125 microsecond		
In order not to affect the Meter accuracy or damge to the Meter, do not open the Meter housing     5. Rejoin the battery door and the battery compartment and install the screw	Sampling Rat	te				not get water inside the case.	4.Replace the battery with 4pcs new 1.5V AA batteries
I Sampling time: 200 times per second 1	Analogue Bar		1dB				5.Rejoin the battery door and the battery compartment and install the screw

Overloading

DC analogue signal Output impedance around output 100Ω, 10mV/dB

## A.General Service

Over range display: OVER Under range display: UNDER

Has input terminal

- Periodically wipe the case with damp cloth and mild de tergent. Do not use chemical solvent.To clean the terminals with cotton-tipped swab with de
- tergent, as dirt or moisture in the terminals can affect readings.

output			to prove the state of the state	
AC analogue signal output	Output impedance around 600Ω, 0.707V/ each scale	Has input terminal	tergent, as dirt or moisture in the terminals can affect readings.	©Copyright 2008 Uni-Trend Group Limited.
Power (HOLD)		Turn on and off the Meter and data holding	Press the Meter power off when it is not in use and take     out the battery when not using for a long time.	All rights reserved.
LEVEL (AUTO)		Selecting auto and manual ranging	• Do not store the Meter in place of humidity, high tem perature, explosive, inflammable and strong magnetic	Manufacturer: Uni-Trend Technology (Dongguan) Limited Dong Fang Da Dao Bei Shan Dong Fang Industrial Development District Hu Men Town, Dongguan City Guang Dong Province China
A/C (RECALL/CLR)	A-Weighting and C-Weighting selection	RECALL/CLR features are for model UT352 only. Press to recall and clear data	field B.Replacing the Battery (see figure 5)	
FAST/SLOW (STORE/BL)	Selection of fast or slow sampling rate and turn on and off of display backlight	STORE feature is for model UT352 only. Press to store data		Postal Code: 523 925 Headquarters: Uni-Trend Group Limited
MAX/MIN (Auto ranging)	Selection of maximum and minimum value. Selection of auto power on and off			Rm901, 9/F, Nanyang Plaza 57 Hung To Road Kwun Tong Kowloon, Hong Kong Tel: (652) 2950 9168
			figure 5	Fax: (852) 2950 9303 Email: info@uni-trend.com http://www.uni-trend.com
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