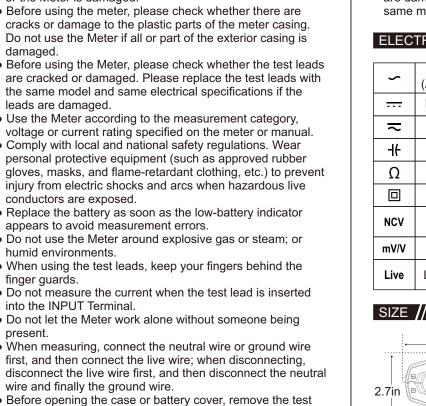
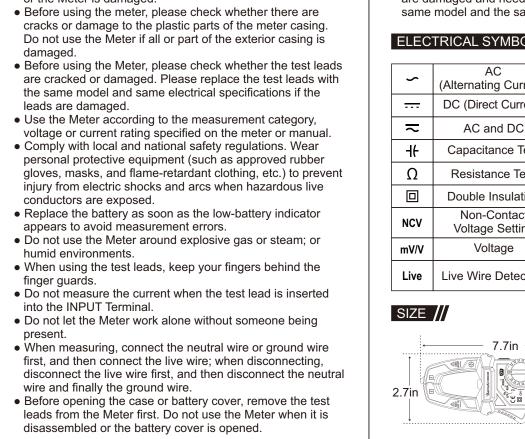
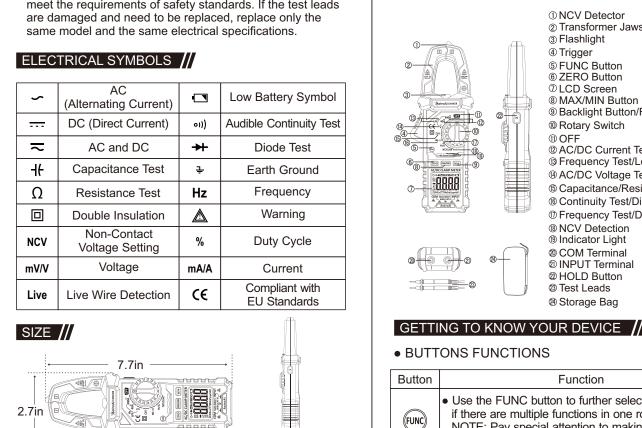
尺寸: 100\*140mm

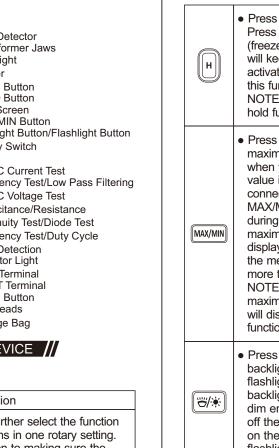
Auto Ranging 4000 Counts Digital Clamp Meter
Digital Clamp Meter
ACCIDE CLAMP METER  COMMUNICATION  ACCIDE CLAMP METER  COMMUNICATION  COMMUNICATI

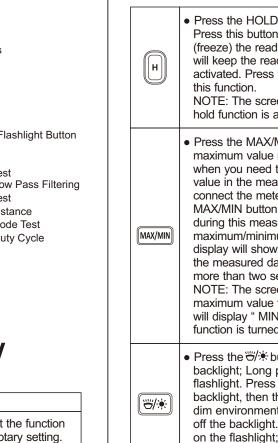


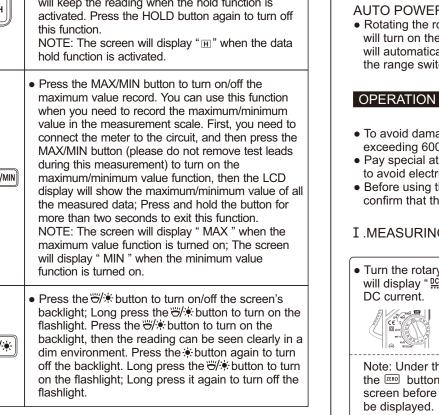
be damaged or weakened.
Please be especially careful when measuring over 60V DC, 30V AC RMS or 42V peak value, there is a danger of an electric shock.
Do not apply more than the rated voltage, as marked on the Meter, between the terminals or between any terminal and grounding.

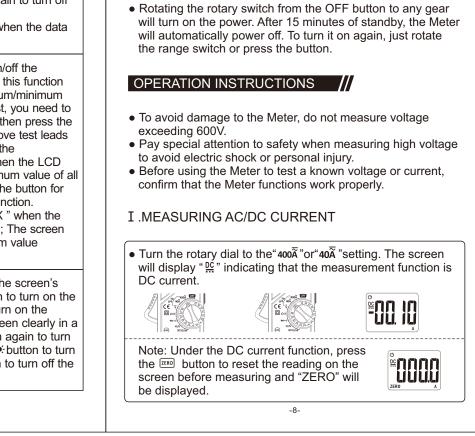


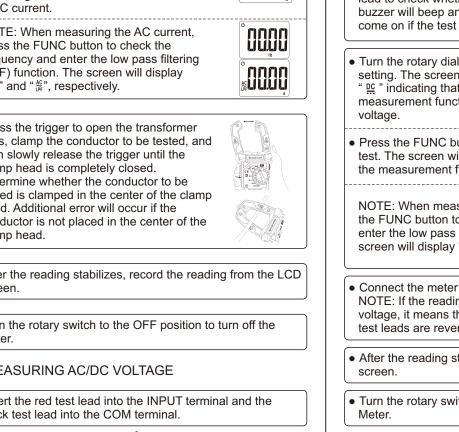












ey are normal. The indicator light will are normal.	<ul> <li>exceeding 600V DC or 600V AC CATIII.</li> <li>Pay special attention to the voltage setting of the Multimeter.</li> <li>The LCD screen will indicate whether the setting is in AC.</li> <li>Use the "FUNC" button to choose the correct setting.</li> <li>If the AC setting is used to measure DC and vice versa, an</li> </ul>	Turn the rotary sw Meter.
e " √ " isplay DC	<ul> <li>overflow symbol will be displayed. Performing this has the potential to damage the Meter or any components you are attempting to test.</li> <li>When measuring voltage, the result will fluctuate depending on the power supply. Generally speaking, the result will fluctuate ±10V, which is NOT an inaccurate result.</li> </ul>	RESISTANCE NO  Do not change the Doing so may dam  Do not test parallel measurement will taccurate.
o switch to AC voltage lay " & " indicating that	Ⅲ.MEASURING RESISTANCE	<ul> <li>Do not directly mea galvanometers, bat</li> </ul>
n is AC voltage.	Insert the red test lead into the INPUT terminal and the black test lead into the COM terminal.	IV.MEASURING C
the AC voltage, press the frequency and g (LPF) function. The nd "A", respectively.	Turn the rotary dial to the continuity test, touch the red test lead and the black test lead to check whether they are normal. The buzzer will beep and the indicator light will come on if the test leads are normal.	Insert the red test black test lead into      Turn the rotary dia touch the red test lead to check whe
egative when measuring the DC positive and negative poles of the please change the test leads.	• Turn the rotary dial to the "Ω+t" setting. The screen will display "Ω" indicating that the	buzzer will beep a be on if the test lea
es, record the reading from the LCD	measurement function is resistance.	Turn the rotary dia     Press the FUNC b
the OFF position to turn off the	Connect the test leads to both ends of the circuit or resistor under test (connect the leads to the resistance under test in parallel).	capacitance test. 1 "n F" indicating tha function is capacita
-10-	-11-	

After the reading stabilizes, record the reading from the LCD screen.	Connect the test leads to both ends of t under test (connect the leads to the res parallel).
Turn the rotary switch to the OFF position to turn off the Meter.	After the reading stabilizes, record the r screen.
ESISTANCE NOTES  Do not change the resistance while taking a measurement.  Doing so may damage the Meter and affect the test results.	Turn the rotary switch to the OFF position     Meter.
Do not test parallel circuits. The accuracy of the measurement will be affected, and the results may not be accurate.  Do not directly measure the internal resistance of micrometers, galvanometers, batteries, and other instruments.  /MEASURING CAPACITANCE	CAPACITANCE TIPS  • If the measured value is significantly difmarked on the capacitor, the capacitor i  CAPACITANCE NOTES  • Before measuring the capacitance, disc
Insert the red test lead into the INPUT terminal and the black test lead into the COM terminal.	to avoid damage to the Meter. Do so by capacitor to a high-powered resistor.  • Discharge the capacitor after measuren potential safety hazards.
Turn the rotary dial to the continuity test, touch the red test lead and the black test lead to check whether they are normal. The	<ul> <li>If the capacitance is large, it may take a reading to stabilize.</li> <li>V.CONTINUITY TEST</li> </ul>
buzzer will beep and the indicator light will be on if the test leads are normal.	Insert the red test lead into the INPUT t black test lead into the COM terminal.
Turn the rotary dial to the "QHF" setting.  Press the FUNC button to switch to capacitance test. The screen will display "n F" indicating that the measurement function is capacitance.	Turn the rotary dial to the "♣○□" setting. screen will display "□□" indicating that the measurement function is continuity. Tou the red test lead and the black test lead check whether they are normal. The bur will beep if the test leads are normal.
-12-	-13-

st leads to both ends of the circuit or resistor nect the leads to the resistance under test in ag stabilizes, record the reading from the LCD	• Connect the test leads to both ends of the circuit or resistor under test (parallel). If the resistance of the circuit or resistor under test is connected and less than $50\Omega$ , the buzzer will emit a beep and the measured resistance value will be displayed on the LCD display.
switch to the OFF position to turn off the	• If the circuit or resistor under test is disconnected, or the resistance value is greater than $50\Omega$ , the LCD screen will display "OL".
d value is significantly different from the value capacitor, the capacitor is damaged.	Turn the rotary switch to the OFF position to turn off the Meter.
ing the capacitance, discharge the capacitor get to the Meter. Do so by connecting the	VI.DIODE TEST
high-powered resistor. Capacitor after measurement to avoid any hazards. Lice is large, it may take a long time for the	Insert the red test lead into the INPUT terminal and the black test lead into the COM terminal.
ilize. Y TEST	Turn the rotary dial to the continuity test, touch the red test lead and the black test lead to check whether they are normal. The
est lead into the INPUT terminal and the into the COM terminal.	buzzer will beep and the indicator light will be on if the test leads are normal.
dial to the "+••)" setting. The lay "••)" indicating that the unction is continuity. Touch d and the black test lead to they are normal. The buzzer test leads are normal.	• Turn the rotary dial to the "+"" setting. Press the FUNC button to switch diode test. The screen will display "+" indicating that the measurement function is diode.
-13-	-14-

sistor under test (parallel). If the resistance	test and the black test lead to the cathode of the diode.	
e circuit or resistor under test is connected less than 50Ω, the buzzer will emit a beep	NOTE: Usually the anode of the diode is the longer end.	Insert the red test lead into the INPUT terminal and the black test lead into the COM terminal.
the measured resistance value will be ayed on the LCD display.	The LCD screen will display the approximate voltage drop reading of the diode. If the test leads are connected reversely, "OL" will be displayed on the LCD screen. Please	Turn the rotary dial to the continuity test,
e circuit or resistor under test is onnected, or the resistance value is	replace the test leads to measure again.	touch the red test lead and the black test lead to check whether they are normal. The buzzer will beep and the indicator light will
connected, or the resistance value is ter than $50\Omega$ , the LCD screen will ay "OL".	Turn the rotary switch to the OFF position to turn off the Meter.	be on if the test leads are normal.
the rotary switch to the OFF position to turn off the er.	DIODE TEST TIPS  • Is the diode functioning correctly? If the red test lead is connected to the positive pole of the diode and the black	• Turn the rotary dial to the "Hz/%" setting. The screen will display "Hz" indicating that the
DDE TEST	lead is connected to negative, then the diode should be in a forward conduction state, and the displayed value is the forward voltage drop.	measurement function is frequency.
rt the red test lead into the INPUT terminal and the c test lead into the COM terminal.	<ul> <li>Normal diode forward pressure drops: the general silicon tube is 0.5- 0.7 V, germanium tube is 0.15-0.3V.</li> <li>If "0000" is displayed, the diode is broken.</li> </ul>	Connect the test leads in parallel to both ends of the tested power supply or circuit.
the rotary dial to the continuity test, h the red test lead and the black test	<ul> <li>You can also verify that the red test lead is connected to the negative pole of the tested diode and the black test rod is connected to the positive pole. The diode should display "OL".</li> </ul>	After the reading stabilizes, record the reading from the LCD
to check whether they are normal. The ser will beep and the indicator light will if the test leads are normal.	POLARITY JUDGMENT METHOD	screen.
4 / 1 14	<ul> <li>Switch the Multimeter to the Resistance setting.</li> <li>Connect the two test leads to the two electrodes of the diode.</li> <li>Measure one result, then swap the positions of the test</li> </ul>	Turn the rotary switch to the OFF position to turn off the Meter.
the rotary dial to the "+"" and Press the FUNC button witch diode test. The screen	leads, then measure the second result.  • The larger result is the reverse resistance and the smaller	VIII.DUTY CYCLE TEST
lisplay "♣" indicating that the surement function is diode.	result is the forward resistance. The smaller resistance is when the black test lead is connected to the positive end of the diode and the red lead is connected to the negative end.	Insert the red test lead into the INPUT terminal and the black test lead into the COM terminal.
-14-	-15-	-16-

black test lead into the COM terminal.	buzzer will beep and the indicator light will
	buzzer will beep and the indicator light will be on if the test leads are normal.
Turn the rotary dial to the continuity test, touch the red test lead and the black test lead to check whether they are normal. The buzzer will beep and the indicator light will be on if the test leads are normal.	Turn the rotary dial to the "Hz/%" setting. Press the FUNC button to duty cycle test. The screen will display "%"  Turn the rotary dial to the "CE"  """  """  """  """  """  """  """
• Turn the rotary dial to the "Hz/%" setting. The screen will display "Hz" indicating that the	indicating that the measurement function is duty cycle.
measurement function is frequency.	Connect the test leads in parallel to both ends of the power supply or circuit.
Connect the test leads in parallel to both ends of the tested power supply or circuit.	After the reading stabilizes, record the reading from the screen.
After the reading stabilizes, record the reading from the LCD screen.	Turn the rotary switch to the OFF position to turn off t Meter.
Turn the rotary switch to the OFF position to turn off the Meter.	IX.NON-CONTACT VOLTAGE
VIII.DUTY CYCLE TEST	Turn the rotary dial to the "NCV/Live" setting. The screen will display "NCV" indicating that the measurement function  The street in the screen in the scr
Insert the red test lead into the INPUT terminal and the black test lead into the COM terminal.	that the measurement function is non-contact voltage.
-16-	-17-
black test lead into the COM terminal.	is non-contact voltage.
	<ul> <li>Turn the rotary dial to the continuity test, touch the red test lead and the black test lead to check whether they are normal. The buzzer will beep and the indicator light will be on if the test leads are normal.</li> <li>Turn the rotary dial to the "Hz/%" setting. The screen will display "Hz" indicating that the measurement function is frequency.</li> <li>Connect the test leads in parallel to both ends of the tested power supply or circuit.</li> <li>After the reading stabilizes, record the reading from the LCD screen.</li> <li>Turn the rotary switch to the OFF position to turn off the Meter.</li> <li>VIII.DUTY CYCLE TEST</li> <li>Insert the red test lead into the INPUT terminal and the black test lead into the COM terminal.</li> </ul>

Turn the rotary dial to the continuity test, touch the red test lead and the black test lead to check whether they are normal. The buzzer will beep and the indicator light will be on if the test leads are normal.	Move the NCV detector close to the point to be tested:When the Meter senses a weak AC signal, the green indicator light will be on, the buzzer will emit a slow, audible beep and the screen will display "L"; When the Meter senses a strong AC signal, the red indicator light will be on, the buzzer will emit a quick beep and the screen will display "H".  NOTE: When the indicator light is on, it means there is voltage, please pay attention to your safety!	MAINTENANCE /// CLEANING THE METE	
• Turn the rotary dial to the "Hz/%" setting. Press the FUNC button to duty cycle test. The screen will display "%" indicating that the measurement	Turn the rotary switch to the OFF position to turn off the Meter.	<ul><li>erroneous measurements.</li><li>Turn off the power to the</li><li>Turn the meter over and</li></ul>	in the terminals, it may produce. Please clean the Meter as follows Meter and remove the test leads. shake out the dust accumulated in case with a damp cloth or mild
function is duty cycle.	X.LIVE WIRE DETECTION	detergent. Wipe the con-	tacts in each terminal with a clean
	Insert the red test lead into the INPUT terminal.	cotton swab dampened	in alcohol.
<ul> <li>Connect the test leads in parallel to both ends of the tested power supply or circuit.</li> <li>After the reading stabilizes, record the reading from the LCD screen.</li> </ul>	Turn the rotary dial to the "NCV/Live" setting. Press the "FUNC" button to switch to live wire detection. The screen will show "Live" indicating that the measurement function is live wire detection.   Live "Indicating that the measurement function is live wire detection."	screwdriver, and remove • Remove the old battery	emove the test leads.  ng the battery cover with a
Turn the rotary switch to the OFF position to turn off the Meter.	Touch the point to be measured with the tip of the red test lead:When the indicator light is on, it means that the	battery cover with the re	
IX.NON-CONTACT VOLTAGE	measured position is live wire, please pay attention to your safety! The reason that the green light is on may be that the test lead is not fully connected to the socket. Please test again after the test lead is fully connected.	Battery Type: 2 x 1.5V A     SPECIFICATIONS	
Turn the rotary dial to the "NCV/Live" setting. The screen will display "NCV" indicating that the measurement function  The screen will display "NCV" indicating that the measurement function  Turn the rotary dial to the	NOTE: When the meter senses a weak AC signal, the LCD screen will display "L", and the buzzer will emit a slow beep; When the meter senses a strong AC signal, the LCD	Digital Display	4000, 3 ¾
that the measurement function is non-contact voltage.	screen will display "H", and the buzzer will emit a quick beep.	Sampling Speed	3 Times/Second
-17-	-18-		-19-

		Range Selec
MAINTENANCE //		Polarity Indic
CLEANING THE METER If there is dust or humidity in the termin	Overload Indic	
erroneous measurements. Please clea  Turn off the power to the Meter and r  Turn the meter over and shake out the	n the Meter as follows: emove the test leads.	Low Batte Indication
the input jack, wipe the case with a d detergent. Wipe the contacts in each	amp cloth or mild	Work Environ
cotton swab dampened in alcohol.  REPLACING THE BATTERY		Storage Temperatu
		Power
<ul> <li>Turn off the Meter and remove the te</li> <li>Unscrew the screws fixing the batter</li> </ul>	y cover with a	Weight
<ul> <li>screwdriver, and remove the battery</li> <li>Remove the old battery and replace</li> </ul>		Dimension
<ul> <li>the same specification.</li> <li>Put the battery cover back to its original battery cover with the removed screy</li> <li>Battery Type: 2 x 1.5V AAA Batteries</li> </ul>	vs.	Safety/Compli
SPECIFICATIONS //		DETAILED S
		I .PRECISION
Digital Display	4000, 3 ¾	Reference Con
Sampling Speed 3 Til	mes/Second	Relative Humid The accuracy is
-19-		-

	Polarity Indication	" - "Automatically displayed	400mV	0.1mV		
ay produce			4V	0.001V	]	
	Overload Indication	" OL" Displayed	40V	0.01V	±(0.5% rdg +5 dgts	
ter as follows: ne test leads.	Low Battery Indication	☐ displayed when battery voltage is lower than normal	400V	0.1V		
ccumulated in h or mild with a clean	Work Environment	32°F~104°F(0°C~40°C; <80% RH, <10°C Non-condensing)	0°C Non-condensing)			
	Storage Temperature	Storage 14°F~122°F(-10°C~6°C; Temperature <70% RH, Remove the Battery)		<ul> <li>Input Impedance: 10MΩ</li> <li>Overload Protection: 600V</li> <li>Maximum Measuring Voltage: 600V</li> </ul>		
	Power	2 x 1.5V AAA Batteries	III.AC VO	LTAGE		
vith a	Weight	Approximately205g	Range	Resolution	Accuracy	
new battery of	Dimensions	195×68×29mm	4V	0.001V	Accuracy	
on and fix the	Safety/Compliance	CAT.III 600V;	40V	0.01V		
		Pollution Level: 2; Altitude <2000m.	400V	0.1V	±(1.0% rdg +5 dgts	
	DETAILED SPECIF	ICATION //	600V	1V		
ond	Relative Humidity: ≤ 80	Ambient Temperature :18°C to 28°C ; 1%; Accuracy: (%rdg + dgts) able within one year after calibration.	<ul><li>Overload</li><li>Maximul</li><li>Frequen</li></ul>	pedance: 10MΩ d Protection: 600V m Measuring Voltage: ( cy Range: 40Hz ~ 1kH se: True RMS	Z	

0.001V		400A	0.1A		40nF
0.01V	±(0.5% rdg +5 dgts)	V.AC CURR	400nF		
0.1V		Danasa	1	A	4µF
1V		Range	Resolution	Accuracy	40µF
		40A	0.01A	50~60Hz: ±(2.5 rdg +5 dgts)	400µF
ance: 10MΩ rotection: 600V		400A	0.1A	Other: ±(3.0% rdg +10 dgts)	4mF
AGE		Response:  VI.RESISTA		VI 12	Overload Pro  VII.FREQUEN
Resolution	Accuracy	Range	Resolution	Accuracy	Range
0.001V	_	400Ω	0.1Ω		
0.01V	±(1.0% rdg +5 dgts)	4kΩ	0.001kΩ		40Hz
0.1V		40kΩ	0.01kΩ		400Hz
1V		400kΩ	0.1kΩ	±(1.0% rdg +5 dgts)	4kHz
		4ΜΩ	0.001ΜΩ		40kHz
lance: 10MΩ rotection: 600V leasuring Voltage: 600V					400kHz
		40ΜΩ	0.01ΜΩ		4MHz
Range: 40Hz ~ 1kH True RMS	lZ	Overload P	Overload Protection: 250V		
-21-			-22	2-	

		40nF	0.01nF	
		400nF	0.1nF	
	A	4µF	0.001µF	±(4.0% rdg +5 dgts)
on	Accuracy	40µF	0.01µF	
	50~60Hz: ±(2.5 rdg +5 dgts) Other: ±(3.0% rdg +10 dgts)	400µF	0.1µF	
	Guien =(o.o /v rag × ro ag.o/	4mF	0.001mF	
~ 400	HZ		rotection: 250V NCY/DUTY CYCL	.E
on	Accuracy	Range	Resolution	Accuracy
		40Hz	0.01Hz	
!		400Hz	0.1Hz	
	±(1.0% rdg +5 dgts)	4kHz	0.001kHz	± (1 00/ rdg ±2 dgto)
		40kHz	0.01kHz	±(1.0% rdg +3 dgts)
2		400kHz	0.1kHz	
		4MHz	0.001MHz	
)V		1~99%	0.1%	±(3.0% rdg +3 dgts)
22				

	40NF	0.01NF							
+5 dgts) 10 dgts)	400nF	0.1nF	±(4.0% rdg +5 dgts)		FREQUENCY MEASUREMENT BY "V" SETTING  • Measuring range: 0 ~ 100 kHz  • Voltage range: 0.5~600V AC (the higher the measured frequency, the higher the voltage should be)  • Overload Protection: 250V				
	4µF	0.001µF							
	40µF	0.01µF		,					
	400μF	0.1µF							
	4mF	0.001mF		l I	FREQUENCY MEASUREMENT BY "A" SETTING  • Measuring range: 0 ~ 1kHz				
		rotection: 250V NCY/DUTY CYCL	.E		freque	range: ≥1/4 range (the higney, the higher the current			
	Range	Resolution	Accuracy				Open Circuit Voltage:		
	40Hz	0.01Hz			01))	The buzzer inside the Meter will beep if the	approximately 1.0V; Overload Protection:		
	400Hz	0.1Hz				resistance<50Ω.	250 V		
gts)	4kHz	0.001kHz	±(1.0% rdg +3 dgts)						
	40kHz	0.01kHz	±(1.0 % rug +3 ugis)	)	x.DIOD	E TEST			
	400kHz	0.1kHz				The approximate diada Reverse DC Voltage:			
	4MHz	0.001MHz			<b>A</b>	The approximate diode forward voltage value	approximately 2.0V;		

you at some point intend to dispose of this product, please eep in mind that many of its components consist of valuable laterials, which can be recycled. Please do not discard it in the garbage bin, but check with your local authorities for ecycling facilities in your area.  Year Warranty Limited Warranty from AstroAl Each AstroAl ligital Multimeter will be free from defects in material and orkmanship. This warranty does not cover fuses, disposable atteries and damage from neglect, misuse, contamination, theration, accident, or abnormal conditions of operation or andling, including over-voltage failures caused by use utside the Multimeter's specified rating, or normal wear and that of mechanical components. This warranty covers the riginal purchaser only and is not transferable.  this product is defective, please contact AstroAl Customer	1 x AstroAl 4000 Counts CLAMP METER	
Digital Multimeter will be free from defects in material and vorkmanship. This warranty does not cover fuses, disposable latteries and damage from neglect, misuse, contamination, accident, or abnormal conditions of operation or landling, including over-voltage failures caused by use lattice the Multimeter's specified rating, or normal wear and lear of mechanical components. This warranty covers the riginal purchaser only and is not transferable.	HOW TO DISPOSE OF THE METER	
S Year Warranty Limited Warranty from AstroAl Each AstroAl Digital Multimeter will be free from defects in material and workmanship. This warranty does not cover fuses, disposable patteries and damage from neglect, misuse, contamination, alteration, accident, or abnormal conditions of operation or pandling, including over-voltage failures caused by use putside the Multimeter's specified rating, or normal wear and ear of mechanical components. This warranty covers the priginal purchaser only and is not transferable. If this product is defective, please contact AstroAl Customer Support at support@astroai.com.	eep in mind that many of its components consist of valuable naterials, which can be recycled. Please do not discard it in ne garbage bin, but check with your local authorities for	
	Digital Multimeter will be free from defects in material and vorkmanship. This warranty does not cover fuses, disposable atteries and damage from neglect, misuse, contamination, lteration, accident, or abnormal conditions of operation or andling, including over-voltage failures caused by use utside the Multimeter's specified rating, or normal wear and ear of mechanical components. This warranty covers the riginal purchaser only and is not transferable.	