

# UNI-T®

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# Product Selection Guide

TEST & MEASUREMENT INSTRUMENTS

# The Never Ending Pursuit Since 1988

## About Us

UNI-T was founded in 1988 and officially registered as UNI-Trend (China) Technology Co., Ltd. In 2003. We design and manufacture test and measurement solutions. Over the years, we have striven to be the technology pioneer and professional solution provider for the community with a sustainable shared future. UNI-T have been committed to the innovation of electronic testing and measurement industry, and as a well-established brand in the test and measuring industry, we serve a wide-range of customers in Education and Scientific Research, Industrial Automation, Automobile, Transportation, Energy, Semi-conductors, Network and Communications, Medical, Environmental protection and more. The company went public in SSE STAR (Sic-Tech Innovation Board) stock market in Feb. 2021 (code: 688628)



## R&D Focused

With 3 R&D centers in Dongguan, Chengdu and Changzhou, and over 200 experienced R&D engineers ensuring the competitive edge of UNI-Trend Group to provide reliable, innovative and cost-effective products to the market. The proprietary factory floor space is 100,000 square meters with annual manufacturing capacity over 10 million units. We are the testing specialists providing solutions to help our partners and customers around the world.



## Wide-Range Production Line

As a growing company with solutions that span multiple sectors, there's a lot to talk about UNI-Trend Group. We got four major product lines: Test & Measurement Instruments, Field Measurement Instruments, Thermal Imagers and Environmental Testers. With extensive applications in industries and fields, you can count on UNI-T on the tasks from R&D to facility/equipment maintenance. Our Test & Measurement Instruments portfolios includes Signal Analyze, RF & Microwave, Power Electronic, Passive components and Safety Testers.








## Customer-Centric Sales

UNI-T's worldwide partners in over 80 countries provide our customers timely services wherever needed. We collaborate with our partner closely on not only product and technical aspects but also channel and business topics to ensure the customer satisfaction. In collaboration with partners, UNI-T strive to maintain the best quality products and service for scientists, engineers and technicians around the world for future success.








## Waveform Generators Selection Guide

Series	Model	Channels	Sampling Rate	MAX Frequency (MHz)												
				600	500	350	200	160	120	80	60	40	30	25	20	
 UTG9000T	UTG9604T	4	2.5GSa/s	●												
	UTG9504T	4	2.5GSa/s		●											
	UTG9354T	4	2.5GSa/s			●										
 UTG4000A	UTG4202A	2	500MSa/s				●									
	UTG4162A	2	500MSa/s					●								
	UTG4122A	2	500MSa/s						●							
	UTG4082A	2	500MSa/s							●						
 UTG2000A/B	UTG2122B	2	1.28GSa/s						●							
	UTG2082B	2	1.28GSa/s							●						
	UTG2062B	2	1.28GSa/s								●					
	UTG2025A	2	125MSa/s											●		
 UTG1000X	UTG1042X	2	200MSa/s										●			
	UTG1022X	2	200MSa/s													●
	UTG1022X-PA	2	200MSa/s													●
 UTG900E	UTG962E	2	200MSa/s									●				
	UTG932E	2	200MSa/s											●		


## Spectrum Analyzers Selection Guide

Series	Model	Frequency Range	Frequency Resolution	RBW	Phase Noise	DANL	Tracking Source
 UTS3000B	UTS3084T	9 kHz-8.4 GHz	1 Hz	1Hz-3 MHz	<-98 dBc/Hz (Typical value)@10kHz	<-161 dBm	Yes
	UTS3084B	9 kHz-8.4 GHz	1 Hz	1Hz-3 MHz	<-98 dBc/Hz (Typical value)@10kHz	<-161 dBm	No
	UTS3036B	9 kHz-3.6 GHz	1 Hz	1Hz-3 MHz	<-98 dBc/Hz (Typical value) @10kHz	<-161 dBm	Optional
	UTS3021B	9 kHz-2.1 GHz	1 Hz	1Hz-3 MHz	<-98 dBc/Hz (Typical value) @10kHz	<-161 dBm	Optional
 UTS1000B	UTS1032B	9 kHz~3.2 GHz	1 Hz	1 Hz~1 MHz	<-98 dBc/Hz (Typical value)@10kHz	<-161dBm	No
	UTS1015B	9 kHz~1.5 GHz	1 Hz	1 Hz~1 MHz	<-98 dBc/Hz (Typical value)@10kHz	<-161dBm	No
	UTS1015T	9 kHz~1.5 GHz	1 Hz	1 Hz~1 MHz	<-98 dBc/Hz (Typical value)@10kHz	<-161dBm	Yes
	UTS1032T	9 kHz~3.2 GHz	1 Hz	1 Hz~1 MHz	<-98 dBc/Hz (Typical value)@10kHz	<-161dBm	Yes
 UTS5000A	UTS5013A	10Hz~13.6 GHz	2Hz	1 Hz-8 MHz	<-108 dBc/Hz (Typical value)@10kHz	<-163dBm	No
	UTS5026A	10Hz~26.5 GHz	2Hz	1 Hz-8 MHz	<-108 dBc/Hz (Typical value)@10kHz	<-163dBm	No



## DC Power Supplies Selection Guide

Series	Model	Channel	Output Voltage	Output Current	Max Power	Resolution	Name
	UDP3305S	4	0~32V(CH1,CH2) 0~6V(CH3)5V(CH4)	0~5A(CH1,CH2) 0~3A(CH3)2A(CH4)	348W	1mV1mA	Programmable Linear DC Power Supply
	UDP3305S-E	4	0~32V(CH1,CH2) 0~6V(CH3)5V(CH4)	0~5A(CH1,CH2) 0~3A(CH3)2A(CH4)	348W	10mV1mA	
	UDP3305C	3	0~30V(CH1,CH2) 1.8V/2.5V/3.3V/5V(CH3)	0~5A(CH1,CH2) 3A(CH3)	315W	10mV1mA	
	UDP3303C	3	0~30V(CH1,CH2) 1.8V/2.5V/3.3V/5V(CH3)	0~3A(CH1,CH2) 3A(CH3)	195W	10mV1mA	
	UDP3303A	3	0~30V(CH1,CH2) 1.8V/2.5V/3.3V/5V(CH3)	0~3A(CH1,CH2) 3A(CH3)	195W	10mV1mA	
	UDP1306C	1	0~32V	0~6A	192W	10mV1mA	
	UDP6953B	1	0~150V	0~10A	600W	1mV 0.1mA	Programmable Switching DC Power Supply
	UDP6952B	1	0~60V	0~25A	600W	0.1mV 0.1mA	
	UDP6942B	1	0~60V	0~15A	360W	0.1mV 0.1mA	
	UDP6933B	1	0~150V	0~5A	200W	1mV 0.1mA	
	UDP6932B	1	0~60V	0~10A	200W	0.1mV 0.1mA	
	UDP6922B	1	0~60V	0~5A	100W	0.1mV 0.1mA	
	UDP6731	1	0~80V	0~15A	360W	10mV1mA	Programmable Switching DC Power Supply
	UDP6730	1	0~40V	0~30A	360W	10mV1mA	
	UDP6721	1	0~60V	0~8A	180W	10mV1mA	
	UDP6720	1	0~60V	0~5A	100W	10mV1mA	
	UDP6722	1	0~80V	0~20A	400W	10mV/10mA	
	UTP3305-II	3	0~32V(CH1,CH2) 5V(CH3)	0~5A(CH1,CH2) 3A(CH3)	335W	10mV1mA	Non-Programmable Linear DC Power Supply
	UTP3303-II	3	0~32V(CH1,CH2) 5V(CH3)	0~3A(CH1,CH2) 3A(CH3)	207W	10mV1mA	
	UTP3315TFL-II	1	0~30V	0~5A	160W	10mV1mA	Non-Programmable Linear DC Power Supply
	UTP3313TFL-II	1	0~30V	0~3A	96W	10mV1mA	
	UTP1310	1	0~32V	0~10A	320W	10mV1mA	Non-Programmable Switching DC Power Supply
	UTP1306	1	0~32V	0~6A	192W	10mV1mA	





## Micro Ohm Meters Selection Guide

Series	Model	Display Count	Resistance Range	Accuracy	Measurement Rate	Display
	UT3516	20000	1 $\mu$ $\Omega$ ~2M $\Omega$	0.05%	60times/s	4.3 inch TFT LCD
	UT3513	20000	1 $\mu$ $\Omega$ ~20k $\Omega$	0.05%	18times/s	4.3 inch TFT LCD




## Digital Multimeters Selection Guide

Series	Model	Display Accuracy	DCV Annual Accuracy	Fastest Test Rate
 UT8800E	UT8806E	6½	0.0035%	10k rdgs/s
	UT8805E	5½	0.015%	5k rdgs/s
	UT8804E	4%	0.025%	3 rdgs/s
	UT8803E	3%	0.3%	3 rdgs/s
	UT8802E	4½	0.1%	3 rdgs/s
 UT800	UT805A	5½	±(0.015%+3digital)	100 rdgs/s
	UT804	4¾	±(0.025%+5digital)	2~3 rdgs/s
	UT803	3%	±(0.3%+2digital)	2~3 rdgs/s
	UT802	4½	±(0.1%+3digital)	2~3 rdgs/s
	UT801	3½	±(0.5%+2digital)	2~3 rdgs/s


## DC Electronic Loads Selection Guide

Series	Model	Total Power	Voltage	Current	Highest Frequency	Current Slope	Resolution
 UTL8500	UTL8512S	300W	150V	30A	10kHz	3A/μs	0.1mV 0.1mA
	UTL8511S	150W	150V	30A	10kHz	3A/μs	0.1mV 0.1mA
	UTL8513	600W	150V	120A	10kHz	1.5A/μs	0.1mV 0.1mA
	UTL8512	300W	150V	30A	10kHz	3A/μs	0.1mV 0.1mA
	UTL8511	150W	150V	30A	10kHz	3A/μs	0.1mV 0.1mA
	UTL8512B+	300W	500V	15A	10kHz	1.5A/μs	0.1mV 0.1mA
 UTL8500+	UTL8512B+	400W	500V	15A	10kHz	0.3A/mS-1.5A/μS	0.1mV 0.1mA
	UTL8512A+	400W	150V	30A	10kHz	0.6A/mS-3A/μS	0.1mV 0.1mA
	UTL8512+	300W	150V	30A	10kHz	0.6A/mS-3A/μS	0.1mV 0.1mA
	UTL8511B+	200W	500V	15A	10kHz	0.3A/mS-1.5A/μS	0.1mV 0.1mA
	UTL8511A+	200W	150V	30A	10kHz	0.6A/mS-3A/μS	0.1mV 0.1mA
	UTL8511+	150W	150V	30A	10kHz	0.6A/mS-3A/μS	0.1mV 0.1mA
 UTL8200	UTL8212	200W×2CH	150V	40A	10kHz	0.15A/μs	1mV 1mA
	UTL8211	400W	150V	20A	10kHz	0.15A/μs	1mV 1mA
 UTL8200+	UTL8212+	200W×2CH	150V	40A	5kHz	0.08A/mS-0.4A/μS	1mV 1mA
	UTL8211+	400W	150V	20A	5kHz	0.04A/mS-0.2A/μS	1mV 1mA




## Power Meters Selection Guide

Series	Model	Voltage Range	Current Range	Frequency Range	Accuracy	Measurement mode	Harmonic Analysis
 UTE9800	UTE9802	3.0V-600V	0.5mA-20.0A	Base frequency: 40Hz~130Hz,BW: 5KHz	$\pm (0.4\% \text{ reading} + 0.1\text{range}+1\text{digit})$	AC, DC ,AC +DC(T-RMS)	No
	UTE9811	3.0V-600V	5mA-20.0A	Base frequency: 40Hz~70Hz,BW: 5kHz	$\pm (0.4\% \text{ reading} + 0.1\text{range}+1\text{digit})$	AC	Yes
 UTE9800+	UTE9802+	3.0V-600V	0.5mA-20.0A	DC, 40Hz~400Hz	$\pm (0.4\% \text{ reading} + 0.1\text{range}+1\text{digit})$	AC DC AC +DC(T-RMS)	No
	UTE9806+	0.5V-600V	0.05mA-10.0A	40Hz~400Hz	$\pm (0.4\% \text{ reading} + 0.1\text{range}+1\text{digit})$	AC	No
	UTE9811+	3.0V-600V	5mA-20.0A	40Hz~70Hz	$\pm (0.4\% \text{ reading} + 0.1\text{range}+1\text{digit})$	AC	Yes
 UTE310	UTE310	0.01V-600V	0.1uA-20.0A	DC, 0.1Hz~300kHz	$\pm (0.1\% \text{ reading} + 0.05\% \text{ range})$	DC TRMS MN	Yes



## AC Power Sources Selection Guide

Series	Model	Capacity	Number of phases	Voltage Range	Frequency Range	Current Range	Resolution
 UAP500/1000A	UAP500A	500VA	1 $\phi$ 2W	0-300VAC	45-250Hz	4.2A	0.01V 0.01Hz 0.001A
	UAP1000A	1000VA	1 $\phi$ 2W	0-300VAC	45-250Hz	8.4A	0.01V 0.01Hz 0.001A

## LCR Meters Selection Guide



Series	Model	Highest Frequency	Basic Accuracy	Display Count	Measurement Rate	DCR	Display
 UT622	UT622E	100kHz	0.10%	99999	20 times/s	Yes	2.8 inch TFT LCD
	UT622C	100kHz	0.10%	99999	20 times/s	No	2.8 inch TFT LCD
	UT622A	10kHz	0.10%	99999	20 times/s	No	2.8 inch TFT LCD
 UTR2810	UTR2811E	10kHz	0.10%	999999	20 times/s	No	2.8 inch TFT LCD
	UTR2810E	10kHz	0.10%	999999	20 times/s	No	2.8 inch TFT LCD
 UTR2830	UTR2832	200kHz	0.05%	999999	80 times/s	Yes	4.3 inch TFT LCD
	UTR2830	100kHz	0.05%	999999	80 times/s	Yes	4.3 inch TFT LCD

## Battery Testers Selection Guide



Series	Model	Voltage Range	Resistance Range	Accuracy	On-line Measurement	Display
 UT3550	UT3550	0.0001V~100.00V	0.001m $\Omega$ ~30.00 $\Omega$	V: 0.05% R: 0.5%	Yes	3.5 inch TFT LCD
 UT3560	UT3563	0.00001V~400.000V	0.0001m $\Omega$ ~3.2000k $\Omega$	V: 0.01%,R: 0.5%	No	4.3 inch TFT LCD
	UT3562	0.00001V~100.000V	0.0001m $\Omega$ ~3.2000k $\Omega$	V: 0.01%,R: 0.5%	No	4.3 inch TFT LCD




## Multi-Channel Temperature loggers Selection Guide

Series	Model	Channel	Temperature Range	Resolution	Scanning Speed	Display	Connectivity	Name
 UT3200	UT3232	32	-200~1800°C	0.1°C	2rdgs/s	4.3 inch TFT LCD	RS-232,USB Device	Multi-channel Temperature Logger
	UT3224	24	-200~1800°C	0.1°C	2rdgs/s	4.3 inch TFT LCD	RS-232,USB Device	
	UT3216	16	-200~1800°C	0.1°C	2rdgs/s	4.3 inch TFT LCD	RS-232,USB Device	
	UT3208	8	-200~1800°C	0.1°C	2rdgs/s	4.3 inch TFT LCD	RS-232,USB Device	
 UT3200+	UT3248+	48	-200~1800°C	0.01°C	10rdgs/s	4.3 inch TFT LCD	RS-232,LAN	Multi-channel Temperature Logger
	UT3240+	40	-200~1800°C	0.01°C	10rdgs/s	4.3 inch TFT LCD	RS-232,LAN	
	UT3232+	32	-200~1800°C	0.01°C	10rdgs/s	4.3 inch TFT LCD	RS-232,LAN	
	UT3224+	24	-200~1800°C	0.01°C	10rdgs/s	4.3 inch TFT LCD	RS-232,LAN	
	UT3216+	16	-200~1800°C	0.01°C	10rdgs/s	4.3 inch TFT LCD	RS-232,LAN	
	UT3208+	8	-200~1800°C	0.01°C	10rdgs/s	4.3 inch TFT LCD	RS-232,LAN	

## Hipot Tester Selection Guide

Series	Model	Voltage Range		Current Range		Resistance Range	Accuracy	Channel	Name
		AC	DC	AC	DC				
 UT5300+	UT5320R+	0.050kV~5.000kV	0.050 kV~6.00kV	0.001mA - 20mA	0.1uA - 20.00mA	0.1MΩ- 10GΩ	±(1.0%reading+5V); ±(2.0%reading+5digits)	1	Hipot Tester
	UT5310R+	0.050kV~5.000kV	0.050 kV~6.00kV	0.001mA - 10mA	0.1uA - 5.00mA	0.1MΩ- 10GΩ	±(1.0%reading+5V); ±(3.0%reading+2digits)	1	
	UT5310D+	0.050kV~5.000kV	0.050 kV~6.00kV	0.001mA - 10mA	0.1uA - 5.00mA	—	±(1.0%reading+5V); ±(3.0%reading+2digits)	1	
	UT5310A+	0.050kV~5.000kV	—	0.001mA - 10mA	—	—	±(3.0%reading+2digits)	1	
 UT5320R-SxA	UT5320-S4A	0.050kV~5.000kV	0.050 kV~6.00kV	0.001mA - 20mA	0.1uA - 20.00mA	0.1MΩ- 10GΩ	±(1.0%reading+5V); ±(2.0%reading+5digits)	4	Hipot Tester
	UT5320-S8A	0.050kV~5.000kV	0.050 kV~6.00kV	0.001mA - 20mA	0.1uA - 20.00mA	0.1MΩ- 10GΩ	±(1.0%reading+5V); ±(2.0%reading+5digits)	8	

## Insulation Resistance Tester Selection Guide

Series	Model	Measurement parameters	Voltage Range	Measurement range	Test speed	Display	Connectivity	Name
 UT5583	UT5583	Insulation Resistance and Leakage Current	1V~1000V (DC)	10kΩ~10TΩ	30ms/time	4.3" TFT LCD	RS232C, USB HOST, HANDLER, FOOT, LAN, RS485(optional)	Insulation Resistance Tester

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