

About RIGOL

Founded in 1998, RIGOL TECHNOLOGIES CO., LTD. (STAR: 688337.SH), is a global leader in electronic measurement instruments. Our focus lies in spreading the development and breakthroughs of cutting-edge technology in the realm of general electronic measurement instruments. With the mission of "Enabling Technology Exploration, Empowering Possibilities and More", we bring together talented individuals with great potential and visionary aspirations to deliver testing and measuring products and solutions that accelerate technological innovation.

RIGOL steadfastly upholds a commitment to original technology innovation, prioritizing independent research and development of key core technologies. Our brand footprint extends across more than 90 countries and regions worldwide, ensuring customers in the testing and measurement industries have access to RIGOL's versatile electronic measurement products. Our offerings include digital oscilloscopes, RF signal generators, waveform generators, power supplies, electronic loads, multimeters, and data acquisition tools. Continuously innovating our product lines, we provide multi-level solutions at the chip, module, and system levels. These solutions cater to the diverse needs of customers in sectors such as communications, renewable energy, automotive, semiconductors, educational research, and system integration. By empowering our customers with these innovative solutions, we enable them to unlock a realm of possibilities and achieve more in their endeavors.

Headquartered in Suzhou, China, RIGOL has established its research and development centers in Beijing, Shanghai, and Xi'an. Additionally, RIGOL has set up its overseas subsidiaries in Portland (U.S.A), Munich (Germany), Tokyo (Japan), Seoul (Korea), Penang (Malaysia), and Singapore. In alignment with our commitment to meeting the evolving technology challenges faced by our customers, RIGOL has established international marketing representative offices in key cities such as Bangalore, Sao Paulo, and Hanoi, to support our customers better. Through our dedicated local technology experts and partners, RIGOL has demonstrated its commitment to creating value for over 100,000 customers around the globe.

RIGOL holds self-developed core intellectual property rights, continually fortifying our technical prowess in the high-end testing and measuring domain. As of December 31, 2023, we've secured 461 authorized patents, among which 397 are invention patents. Notably, RIGOL's core technology was honored with the 24th China Patent Gold Award. Recognized as one of the fifth batch of "little giant" firms, we've also achieved notable mentions, including appearances on the Top 500 Chinese Enterprise Patent list for 2019, 2020, and 2022. In 2023, we were bestowed the prestigious title of "National Intellectual Property Demonstration Enterprise." Our accolades extend to over 70 prizes, encompassing esteemed recognitions such as the "Second Prize of Science and Technology of China Machinery Industry," "Excellent Prize of Suzhou Patent Award," "R&D100 Awards," "Suzhou Quality Award," and "World Electronics Achievement Awards."

RIGOL also holds various qualifications, including membership in the International Bus LXI Alliance and CNAS certification for our laboratory. Engaging actively in standardization efforts, RIGOL serves as a member of the 5th National Technical Committee for Standardization of Electronic Measuring Instruments. In this capacity, RIGOL has participated in the drafting and formulation of ONE National standard, contributed significantly to leading the drafting and formulation of three industry general specifications

RIGOL Product Line

- **⊘** Digital Oscilloscope
- **Waveform Generator**
- Spectrum Analyzer
- **RF Signal Generator**
- **Over Supply and Electronic Load**
- **Ø** Digital Multimeter
- **⊘** Data Acquisition





Beijing/Suzhou/ Shanghai/Xi'an











DS and MSO Series Oscilloscope Table

Model							Max	. Bandı	width (I	MHz)							No. of Analog	No. of Digital	Max. Real- time Sample	Vertical	Max. Memory	Built-in Signal	LCD
Model	50	70	100	150	200	350	500	600	750	1000	1500	2000	3000	5000	8000	13000		Channels	Rate	Resolution	Depth	Source	LCD
DS70000													•	•			4	N/A	20 GSa/s	8-bit	2 Gpts (Opt.)	N/A	15.6-inch 1920×1080
DS8000-R						•				•		•					4	N/A	10 GSa/s	8-bit	500 Mpts	1-CH, 25 MHz (Opt)	N/A
MSO8000A									•		•	•					4	16	10 GSa/s	8-bit	500 Mpts	2-CH, 25 MHz (Opt.)	10.1-inch 1024×600
MSO8000								•		•		•					4	16	10 GSa/s	8-bit	500 Mpts	2-CH, 25 MHz (Opt.)	10.1-inch 1024×600
MSO7000			•		•	•	•										4	16	10.66-7-	0 1-14	500 Marta (Oat)	2-CH, 25 MHz (Opt.)	10.1-inch
DS7000			•		•	•	•										4	N/A	10 GSa/s	8-bit	500 Mpts (Opt.)	N/A	1024×600
				•													2	16	4 GSa/s		100 Mpts	1-CH, 25 MHz (Opt.)	
MSO5000		•	•														2		8 GSa/s	8-bit	200 Mpts (Opt.)	2-CH, 25 MHz (Opt.)	9-inch 1024×600
		•	•		•	•											4		0 038/3		200 Mpts (Opt.)	2-C11, 23 Wil 12 (Opt.)	
			•		•												2	N/A					
DS1000Z	•																	IN/A	1 GSa/s	8-bit	24 Mpts	N/A	7-inch
D31000Z		•	•														4	16	1 030/3	O DIL	24 Mpts		800×480
		•	•															10				2-CH, 25 MHz	

High-Resolution Digital Oscilloscope Selection Table

Model			Ma	x. Bandwidth (N	lHz)			No. of	No. of Digital	Max. Real-time	Vertical	Max. Memory	Built-in Signal	LCD
Model	70	100	125	200	250	400	800	Analog Channels	Channels	Sample Rate	Resolution	Depth	Source	LCD
DHO4000				•		•	•	4	N/A	4 GSa/s	12-bit	500 Mpts (Opt.)	N/A	10.1-inch 1280×800
	•	•		•				2				100 Marta (Out)		
DU01000	•	•		•				4	N/A	2 GSa/s	12-bit	100 Mpts (Opt.)	N/A	10.1-inch
DHO1000				•				2	N/A	2 G3a/S	12-011	50.14-4-	N/A	1280×800
				•				4				50 Mpts		
DITOOOO			•		•			4	16	1.25.65-/-	12-bit	FO Mada	N/A	7-inch
DHO900			•		•			4	16	1.25 GSa/s	12-011	50 Mpts	1-CH, 25 MHz	1024×600
DITOSOO	•	•						2	NI/A	1.25 GSa/s	12-bit	25 Mada	N1/A	7-inch
DHO800	•	•						4	N/A	1.25 GSa/S	12-DIT	25 Mpts	N/A	1024×600

Five Key Specifications for Oscilloscope Selection

Bandwidth	Sample Rate	Vertical Resolution	Memory Depth	Digital Channel
The bandwidth of the oscilloscope determines the frequency range that the oscilloscope can accurately measure. A general rule of thumb is that the oscilloscope bandwidth shall be 5 times higher than the frequency of the signal under test.	which the instrument samples the data. The higher sample rate provides better	The vertical resolution determines the instrument's ability to accurately display and measure small voltage changes within a signal. The higher the vertical resolution, the more detailed voltage variation of the signal can be accurately displayed.	Memory depth describes the number of points that can be captured and stored. Generally speaking, a deeper memory depth allows for the capturing of waveforms over longer periods or maintains a higher sample rate across a wider time base range.	Mixed signal oscilloscopes (MSOs) not only allow you to observe analog signals up to 4 channels but also enable the capturing, triggering, and analysis of signals up to 16 digital channels simultaneously. Additionally, they facilitate analysis of parallel bus signals.



DS70000 Series Digital Oscilloscopes



DS8000-R Series Digital Oscilloscopes



MSO8000 Series Digital Oscilloscopes



MSO7000 Series Digital Oscilloscopes



DHO4000 Series Digital Oscilloscopes



DHO900 Series Digital Oscilloscopes

Probe Model

	Prob	e Category		Product Model	Key Specifications	DS70000	DS8000-R	MSO8000/A	MSO/DS7000	MSO5000	DHO900	DHO800	DHO4000	DHO1000	DS1000Z	DS1000Z-E
				PVP2150	150 MHz, 10:1/1:1, Passive High-Impedance Probe (single)				•	•	•	•	•	•	•	•
				PVP2350	350 MHz, 10:1/1:1, Passive High-Impedance Probe (single)				•	•	•	•	•	•	•	•
				PVP3150	150 MHz,10:1/1:1, Passive High-Impedance Probe (single)				•	•	•	•	•	•	•	•
				RP3500A	500 MHz Passive High-impedance Probe	•	•	•	•				•			
		Passive Prob	es	RP5600A	600 MHz Passive High-impedance Probe	•	•	•	•							
				RP6150A	1.5 GHz Passive Low-Impedance Probe (500 ohm)	•	•	•	•				•			
				RP1010H	10 kV 50 MHz High-Voltage Probe	•	•	•	•	•	•	•	•	•	•	•
				RP1018H	18 kV 150 MHz High-voltage Probe	•	•	•	•	•	•	•	•	•	•	•
				RP1300H	300 MHz High-Voltage Probe (2 kV)	•	•	•	•	•	•	•	•	•	•	•
				PHA0150	High-Voltage Differential Probe, DC-70 MHz, 1500 V	•	•	•	•	•	•	•	•	•	•	•
Voltage				PHA1150	High-Voltage Differential Probe, DC-100 MHz, 1500 V	•	•	•	•	•	•	•	•	•	•	•
Probes			High-Voltage	PHA2150	High-Voltage Differential Probe, DC-200 MHz, 1500 V	•	•	•	•	•	•	•	•	•	•	•
			Differential Probes	RP1025D	25 MHz, 1.3 kV	•	•	•	•	•	•	•	•	•	•	•
				RP1050D	50 MHz, 6.5 kV	•	•	•	•	•	•	•	•	•	•	•
		Differential		RP1100D	100 MHz, 6.5 kV	•	•	•	•	•	•	•	•	•	•	•
	Active Probes	Probes		PVA7250	2.5 GHz Active Differential Probe	•	•	•	•				•			
			1 \/-lh	RP7080	800 MHz Active Differential Probe	•	•	•	•				•			
			Low-Voltage Differential	RP7150	1.5 GHz Active Differential Probe	•	•	•	•				•			
			Probes	PVA8350	3.5 GHz Active Differential Probe	•	•	•	•							
				PVA8700	7 GHz Active Differential Probe	•										
				RP7080S	800 MHz Active Single-ended Probe	•	•	•	•				•			
		Single-en	ded Probes	RP7150S	1.5 GHz Active Single-ended Probe	•	•	•	•				•			
				PCA1030	Current Probe: 50 MHz, 30 A	•	•	•	•				•			
				PCA1150	Current Probe: 10 MHz, 150 A	•	•	•	•				•			
				PCA1500	Current Probe: 2 MHz, 500 A	•		•					•			
				PCA2030	Current Probe: 100 MHz, 30 A	•	•	•	•				•			
				RP1000P	4-CH Power Supply	•	•	•	•	•	•	•	•	•	•	•
	Cur	rent Probes		RP1001C	300 kHz, 100 ADC	•	•	•	•	•	•	•	•	•	•	•
				RP1002C	1 MHz, 70 ADC	•	•	•	•	•	•	•	•	•	•	•
				RP1003C	50 MHz, 30 A, required to purchase the RP1000P power supply	•	•	•	•	•	•	•	•	•	•	•
				RP1004C	100 MHz, 30 A, required to purchase the RP1000P power supply	•	•	•	•	•	•	•	•	•	•	•
			RP1005C	10 MHz, 150 A, required to purchase the RP1000P power supply	•	•	•	•	•	•	•	•	•	•	•	
			RP1006C	2 MHz, 500 A, required to purchase the RP1000P power supply	•	•	•	•	•	•	•	•	•	•	•	
				PLA2216	16-channel Logic Analyzer Probe					•	•					
	Logic A	nalyzer Probes		RPL2316	16-channel Logic Analyzer Probe			•	•							
				RPL1116	16-channel Logic Analyzer Probe										•	

Function/Arbitrary Waveform Generators

Configuration Table

Model					Max	. Freque	ency (M	Hz)					СН	Max. Sample Rate	Arb Memory Depth	Waveform Generation	Modulation
Wodei	25	30	50	60		100	150	160	200	250	350	5000	CH	iviax. Sample Nate	Aib Welloly Deptil	Technology	ivioudiation
DG70000												•	2/4	10 GSa/s for real output 12 GSa/s for complex output	1.5 Gpts	SiFi III	IQ Modulation (Opt.)
DG5000					•	•				•	•		1/2	1 GSa/s	128 Mpts	DDS	AM, FM, PM, ASK, FSK, PSK, PWM, IQ
DG4000				•		•		•	•				2	500 MSa/s	16 kpts	DDS	AM, FM, PM, ASK, FSK, PSK, BPSK, QPSK, 3FSK, 4FSK, OSK, PWM
DG2000			•		•	•							2	250 MSa/s	16 Mpts	SiFi II	AM, FM, PM, ASK, FSK, PSK, PWM
DG1000Z	•	•		•									2	200 MSa/s	8 Mpts/2 Mpts (DG1022Z) (16 Mpts opt.)	SiFi	AM, FM, PM, ASK, FSK, PSK, PWM
DG900 Pro					•		•		•				2	1.25 GSa/s	16 Mpts (32 Mpts opt.)	SiFi II	AM, FM, PM, ASK, FSK, PSK, PWM, SUM
DG800 Pro	•		•										1/2	625 MSa/s	2 Mpts (8 Mpts opt.)	SiFi II	AM, FM, PM, ASK, FSK, PSK, PWM, SUM

Models and Options

	DG	70000 Series	DG	5000 Series	DG4	1000 Series	DG2	2000 Series	DG1	000Z Series	D	G900 Pro		OG800 Pro
	DG70000- 3RL	1.5 G Sample Points/ CH Upgrade Option	PATOTT	Power Amplifier	PA1011	Power Amplifier	UltraStation Adv.	Advanced Arbitrary Waveform Editing Software	PA1011	Power Amplifier	DG900Pro- 3RL	32 Mpts/CH Memory Depth Upgrade Option	DG800Pro- 3RL	8 Mpts/CH Memo Depth Upgrade Option
0-4:	DG70000- SEQ	Complex Sequence Function	UltraStation Adv.	Advanced Arbitrary Waveform Editing Software	UltraStation Adv.	Advanced Arbitrary Waveform Editing Software			Arb16- MDG1000Z	16 Mpts Memory Option			DG800Pro- DCH	Two-channel Upgrade Option (for DG821 Pro or
Option	DG70000- DC	DC Amplifier Output							UltraStation Adv.	Advanced Arbitrary Waveform Editing Software				
	DG70000- DIGUP	Digital Up Converter (DUC) and IQ Modulation												

Spectrum Analyzers

Model	0.5		1.5	requen 3	cy Ban	d 4.5	6.5	7.5	RBW	Real-time/ Analysis Bandwidth	VSA	ЕМІ	Advanced Meas.	ASK/FSK	EMI	VSWR	Tracking Generator	VNA	Preamp	осхо
RSA5000N					•		•		4.11 40.1411	25 MHz	RSA5000-	DCAFOOO FAIL	DCAFOOO ANAK	RSA5000-	Std.	Std.	Std.	Std.	DCAFOOO DA	05,40,500
RSA5000/-TG					•		•		1 Hz ~ 10 MHz	(Opt. 40 MHz)	VSA	RSA5000-EMI	RSA5000-AMK	VSA	Std.	Std.	-TG Model	N/A	RSA5000-PA	OCXO-C08
RSA3000N			•	•		•			1 Hz ~ 3 MHz	10 MHz		RSA3000-EMI	RSA3000-AMK	N/A	RSA3000-	Std.	Std.	Std.	RSA3000-PA	
RSA3000/-TG				•		•			(Opt. 10 MHz)	(Opt. 25/40 MHz)	N/A	K3A3000-EIVII	K3A3000-AIVIK	IN/A	EMC	Std.		N/A	K3A3000-FA	OCXO-C08
RSA3000E/-TG			•	•					1 Hz ~ 3 MHz	10 MHz		RSA3000E-EMI	RSA3000E-AMK	RSA3000E- ASK/FSK	RSA3000E- EMC	Std.	-TG Model	N/A	RSA3000E-PA	
DSA800/-TG			•		•			•	10 Hz ~ 1 MHz	N/A	N/A	S1220	AMK-DSA800	S1220	EMI-DSA800	VSWR-	-TG Model	N/A	Built-in, Std.	N/A
DSA800E/-TG					•				10 HZ ~ 1 WHZ	N/A	IN/A	31220	AIVIK-D3A600	31220	EIVII-D3A600	DSA800	- 1G Model	N/A	built-iii, Stu.	IN/A
DSA700	•	•							100 Hz ~ 1 MHz	N/A	N/A	N/A	AMK-DSA800	N/A	EMI-DSA800	N/A	N/A	N/A	Built-in, Std.	N/A

RF Signal Generators

0.5	,																
Model			F	requer	ıcy Ba	nd			СН	Amplitude Range	Reference Clock Stability	Phase Noise	Modulation	осхо	Pulse Train	IQ Modulation	IQ PC
	1.5	2.1		3.6	6.5	12	13.6	20									Software
DSG5000						•		•	2/4/6/8	-30 dBm ~ +25 dBm	<0.5 ppm <5 ppb (with option OCXO-D08)	-133 dBc/Hz @ 1 GHz, 10 KHz offset (typ.)	AM, FM, ØM, Pulse	OCXO-D08	DSG5000- PUG	N/A	N/A
DSG3000B-IQ					•		•		1	-110 dBm ~ +20 dBm (-110 dBm to +13 dBm for 13.6G model)	<1 ppm <5 ppb	-116 dBc/Hz @ 1 GHz,	AM, FM, ØM, Pulse, IQ	OCXO-B08	DSG3000B-	Std.	Ultra IQ Station
DSG3000B					•		•		1	-110 dBm ~ +20 dBm	(with option OCXO-B08)	20 KHz offset (typ.)	AM, FM, ØM, Pulse		PUG	N/A	N/A
DSG800A		•		•					1	-110 dBm ~ +13 dBm	<2 ppm <5 ppb	TIL GDC/TIL @ T GTIL,	AM, FM, ØM, Pulse, IQ	OCXO-B08	DSG800- PUG	Std. for DSG800A model	Ultra IQ Station
DSG800	•		•						1	-110 dBm ~ +13 dBm	(with option OCXO-B08)	20 KHz offset (typ.)	AM, FM, ØM, Pulse		PUG	N/A	N/A



DG70000 Series Arbitrary Waveform Generator



DG1000Z Series Function/Arbitrary Waveform Generator



DG900 Pro Series Function/Arbitrary Waveform Generator



RSA5000 Series Spectrum Analyzer



RSA3000 Series Spectrum Analyzer



DG5000 Series Microwave Signal Generator



DSG3000B Series RF Signal Generator

Programmable DC Electronic Loads

Model	Power	Voltage	Current	Freq.	High Frequency Option	Current Slew Rate	High Slew Rate Option	Voltage Readback Resolution	Current Readback Resolution	Readback Resolution Option	Interface	PC Software
DL3021	200 W		40 A				SLEWRATE-				USB Host, USB Device,	
DL3031	350 W	150 V	60 A	15 kHz	FREQ-DL3	2.5 A/us	DL3	0.1 mV	1 mA	HIRES-DL3	RS232, LAN (opt., LAN- DL3)	Ultra Load
DL3021A	200 W		40 A	20 111	Ct. I	3.0 A/us	Ct. I		0.1 4	Ct. I	USB Host,	
DL3031A	350 W		60 A	30 kHz	Std.	5.0 A/us	Std.		0.1 mA	Std.	USB Device, RS232, LAN	

Digital Multimeters

Model	Resolution	Accuracy	Measurement Function	Interface
DM858E	5.5 digits	600 ppm	DCV, DCI, ACV, ACI, Resistance, Capacitance, Period,	USB Host, USB Device, LAN
DM858	5.5 digits	300 ppm	Frequency, Diode, Continuity, Temperature, and Any Sensor	USB Host, USB Device, RS232
DM3058E	5.5 digits	1E0 nnm	DCV, DCI, ACV, ACI, Resistance, Capacitance, Period,	USB Host, USB Device, RS232
DM3058	5.5 digits	150 ppm	Frequency, Diode, Continuity, Temperature, and Any Sensor	USB Host, USB Device, RS232,
DM3068	6.5 digits	35 ppm	DCV, DCI, ACV, ACI, Resistance, Capacitance, Period, Frequency, Diode, Continuity, Temperature, and Any Sensor	GPIB, LAN

Programmable Linear DC Power Supplies

Model	СН	Output Range	Max. Power	Ripple & Noise	High Resolution	Monitor & Analyzer	Timer	Trigger Input/Output Channel	Interface
DP711	1	30 V/5 A	150 W		HIRES-	N/A	TIMER-	N/A	RS232
DP712	1	50 V/3 A		μVrms	DP700	,	DP700	,	
DP811	1	20 V/10 A or 40 V/5 A	200 W						
DP813	1	8 V/20 A or 20 V/10 A	200 W						USB Host, USB
DP821	2	8 V/10 A 60 V/1 A	140 W		HIRES-	AFK-	Std.	DIGITALIO-	Device, RS232/LAN
DP822	2	20 V/5 A 5 V/16 A	180 W		DP800	DP800	Sta.	DP800	(opt. INTERFACE-
DP832	3	30 V/3 A 30 V/3 A,5 V/3A	195 W						DP800)
DP831	3	8 V/5 A 30 V/2 A,-30 V/2 A	160 W	≤ 350					
DP811A	1	20 V/10 A or 40 V/5 A	200 W	μVrms					
DP813A	1	8 V/20 A or 20 V/10 A	200 W						
DP821A	2	8 V/10 A 60 V/1 A	140 W		Ct-I	CT-I	Ct-1	Ct-1	USB Host, USB
DP822A	2	20 V/5 A 5 V/16 A	180 W		Std.	Std.	Std.	Std.	Device, RS232, LAN
DP832A	3	30 V/3 A 30 V/3 A,5 V/3 A	195 W						
DP831A	3	8 V/5 A 30 V/2 A,-30 V/2 A	160 W						
DP932E	3	30 V/3 A 30 V/3 A 6 V/3 A	198 W		DP900- HIRES		-	-	USB Host, USB Device, LAN, Digital IO
DP932U	3	32 V/3 A 32 V/3 A 6 V/3 A	210 W	≤ 350	DP900- HIRES		1 s (std.), 100 ms (with the option DP900-ARB)	DP900- DIGITALIO	USB Host, USB Device, LAN, Digital IO
DP932A	3	32 V/3 A 32 V/3 A 6 V/3 A	210 W	μVrms	Std.	Std.	Std.	Std.	USB Host, USB Device, LAN, Digital IO (DP900-DIGITALIO)
DP2031	3	32 V/3 A 32 V/3 A 6 V/5 A	222 W		Std.		Std.	Std.	USB Host, USB Device, LAN, RS232, and three rear-panel output terminals



DL3000 Series Programmable DC Electronic Load



DM3000 Series Digital Multimeter



DP800 Series Programmable Linear DC Power Supply



DP2000 Series Programmable Linear DC Power Supply

Boost Smart World and Technology Innovation



- ি Cellular-5G/WIFI
- **Q** UWB/RFID/ ZIGBEE
- ◆ Digital Bus/Ethernet
- Optical Communication
- Digital/Analog/RF Chip
- Memory and MCU Chip
- Third-Generation Semiconductor
- **図 Solar Photovoltaic Cells**
- New Energy Automobile
- (Power Test
- Automotive Electronics

Provide Testing and Measuring Products and Solutions for Industry Customers

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