



RIGOL

 *your partner in technology*
EASTERN EUROPE

RIGOL Product Overview

普源精电科技股份有限公司

RIGOL TECHNOLOGIES CO., LTD.

Oscilloscope product technology patent amount

- High bandwidth and high integration oscilloscope AFE chip technology **2**
- High bandwidth and high sampling rate oscilloscope DSP chip technology **2**
- High bandwidth low noise analog front-end technology **14**
- Data acquisition technology of high sampling oscilloscope **15**
- Display technology of high refresh rate oscilloscope **14**
- Oscilloscope technology platform software technology **17**
- Broadband Oscilloscope probe technology **15**
- High precision waveform analysis technology **1**

Function/arbitrary waveform generator technology patent amount

- SiFi III High fidelity arbitrary signal synthesis technology **7**
- SiFi II High fidelity arbitrary signal synthesis technology **5**
- SiFi I High fidelity arbitrary signal synthesis technology **7**
- Pulse signal generation technology **4**

Self-developed core technology of RIGOL
products accounted for more than **90%**

RF product technology patent amount

- UltraReal Technology **1**
- Digital IF Technology **3**
- Digital Automatic Level Control **4**
- Multi-channel phase calibration and synchronization **1**

Other product technology patent amount

- High precision DC voltage measurement with large dynamic range **2**
- High precision large range current measurement technology **2**
- High precision and fast capacitance measurement technology **1**
- Power output state control technology **4**

Product Family

1

Digital Oscilloscopes

DHO4000/1000/900/800 Series
DS70000 Series
MSO8000 Series
.....

2

Waveform Generators

DG70000 Series
DG5000 Series
.....

3

Spectrum Analyzers

RSA5000 Series
RSA3000 Series
.....

4

RF-Signal Generators

DSG5000 Series
DSG3000B Series
.....

5

DC Power Supply

DP2000/900/800 Series
DP5000/3000 Series
.....

6

DC Electronic Load

DL3000 Series

7

Multimeters

DM3068
DM3058/E

8

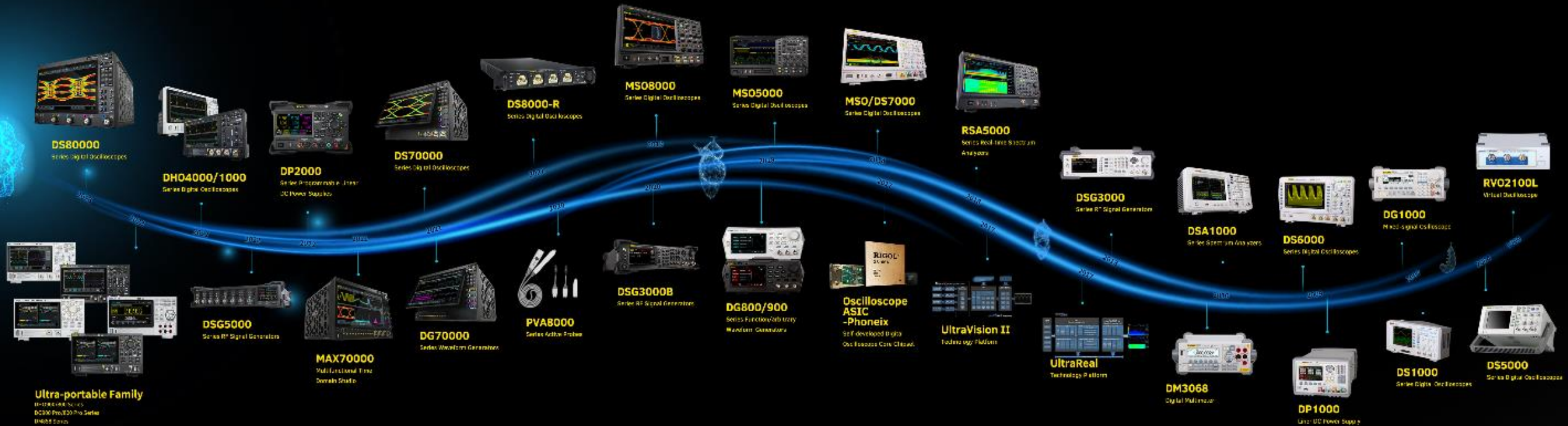
Data Acquisitions

M300 Series



Product history in 25 years

Satisfy your daily working without compromise



RIGOL Digital Oscilloscopes



DS7000 Series

Bandwidth: 5GHz
Sample Rate: 20GSa/s
Vertical Resolution: 8bit~16bit
Waveform Capture Rate: >1,000,000wfms/s

DHO900/800 Series

Bandwidth: 250MHz
Sample Rate: 1.25GSa/s
Vertical Resolution: 12bit
Waveform Capture Rate: 1,000,000wfms/s

MSO7000 Series

Bandwidth: 500MHz
Sample Rate: 10GSa/s
Waveform Capture Rate: > 600,000wfms/s

DHO4000/1000 Series

Bandwidth: 800MHz
Sample Rate: 4GSa/s
Vertical Resolution: 12bit
Waveform Capture Rate: 1,500,000wfms/s

MSO8000A Series

Bandwidth: 3GHz
Sample Rate: 10GSa/s
Waveform Capture Rate: > 600,000wfms/s

MSO5000 Series

Bandwidth: 350MHz
Sample Rate: 8GSa/s
Waveform Capture Rate: > 600,000wfms/s

RIGOL Waveform Generators



DG70000 Series

Max. Output Frequency: 5GHz
Max. Sample Rate: 5GSa/s (12GSa/s interpolated)
Vertical Resolution: 16bit
Arbitrary Wave Length: 1.5Gpts

DG4000 Series

Max. Output Frequency : 200MHz
Max. Sample Rate : 500MSa/s
Vertical Resolution : 14bit
Arbitrary Wave Length : 16K

DG900 Series

Max. Output Frequency: 100MHz
Max. Sample Rate: 250MSa/s
Vertical Resolution: 16bit
Arbitrary Wave Length: 16M

DG5000 Series

Max. Output Frequency: 350MHz
Max. Sample Rate: 1GSa/s
Vertical Resolution: 14bit
Arbitrary Wave Length: 128M

DG2000 Series

Max. Output Frequency: 100MHz
Max. Sample Rate: 250MSa/s
Vertical Resolution: 16bit
Arbitrary Wave Length: 16M

DG800 Series

Max. Output Frequency: 35MHz
Max. Sample Rate: 125MSa/s
Vertical Resolution: 16bit
Arbitrary Wave Length: 2M (8M opt.)

RIGOL Waveform Generators: Launched this year!



RIGOL

Lightweight Accompanying,
Signal Worry-Free

DG800Pro Series
Function/Arbitrary Waveform Generator

The image shows a white RIGOL DG800Pro Series Function/Arbitrary Waveform Generator. It features a large color display showing two waveforms, a central rotary knob, and various buttons. The device is compact and has a professional design.

- 25/50 MHz Sine Frequency
- 16-bit Vertical Resolution
- 625 MSa/s Max. sample Rate
- Arb Length of 2 Mpts/CH (8 Mpts/CH optional)
- 40 MHz Square Frequency, 25 MHz Pulse Frequency
- Rise Time as Low as 3 ns
- Waveform Jitter as Low as 200ps
- A 7 Digits/s Counter with 500 MHz Bandwidth



RIGOL

Lightweight Accompanying,
Signal Worry-Free

DG900Pro Series
Function/Arbitrary Waveform Generator

The image shows a black RIGOL DG900Pro Series Function/Arbitrary Waveform Generator. It features a large color display showing two waveforms, a central rotary knob, and various buttons. The device is compact and has a professional design.

- 70/150/200 MHz Sine Frequency
- 16-bit Vertical Resolution
- 1.25 GSa/s Max. sample Rate
- Arb Length of 16 Mpts/CH (32 Mpts/CH optional)
- 60 MHz Square Frequency, 50 MHz Pulse Frequency
- Rise Time as Low as 3 ns
- Waveform Jitter as Low as 200ps
- A 7 Digits/s Counter with 1 GHz Bandwidth

RIGOL Spectrum Analyzers



RSA5000 Series

Frequency Range: 9kHz~6.5GHz
Max. Real-time Bandwidth: 40MHz
RBW: 1Hz~10MHz
Phase Noise: -108dBc/Hz@10kHz

RSA3000/E Series

Frequency Range : 9kHz~4.5GHz
Max. Real-time Bandwidth : 40MHz
RBW: 1Hz~10MHz
Phase Noise : -102dBc/Hz@10kHz

DSA800 Series

Frequency Range : 9kHz~4.5GHz
Max. Real-time Bandwidth : 10Hz~1MHz
Phase Noise : -98dBc/Hz@10kHz

DSA700 Series

Frequency Range : 9kHz~4.5GHz
Max. Real-time Bandwidth : 100Hz~1MHz
Phase Noise : -80dBc/Hz@10kHz

RIGOL RF Signal Generators



DSG5000 Series

Frequency Range : 9kHz~20GHz
Amplitude Indicators Range : -30dBm~+25dBm
Amplitude Accuracy : <0.5dB
SSB Phase Noise : <-133dBc/Hz@1GHz,10kHz offset
Modulation Function : AM/FM/ØM/Pulse



DSG3000B Series

Frequency Range : 9kHz~13.6GHz
Amplitude Indicators Range : -110dBm~+20dBm
Amplitude Accuracy : <0.5dB
SSB Phase Noise : <-116dBc/Hz@1GHz,20kHz offset
Modulation Function : AM/FM/ØM/Pulse/IQ



DSG800 Series

Frequency Range : 9kHz~3.6GHz
Amplitude Indicators Range : -110dBm~+13dBm
Amplitude Accuracy : <0.5dB
SSB Phase Noise : <-112dBc/Hz@1GHz,20kHz offset
Modulation Function : AM/FM/ØM/Pulse/IQ

RIGOL DC Power & DC Load



DP2000 Series

Programmable linear DC power supply

Total Power: 222W

Programming Resolution: 1mV/0.1mA

Display resolution: 1mV/0.1mA

Communication interface: USB、LAN、RS232、Digital IO

DP900 Series

Programmable linear DC power supply

Total Power : 210W

Programming Resolution : 1mV/1mA

Display resolution : 10mV/1mA

Communication interface : USB、LAN、opt-Digital IO

DP800 Series

Programmable linear DC power supply

Total Power : 200W

Programming Resolution : 1mV/0.1mA

Display resolution : 10mV/10mA

Communication interface : USB、LAN、RS232、Digital IO、USB-GPIB

DL3000 Series

Programmable DC Electronic Load

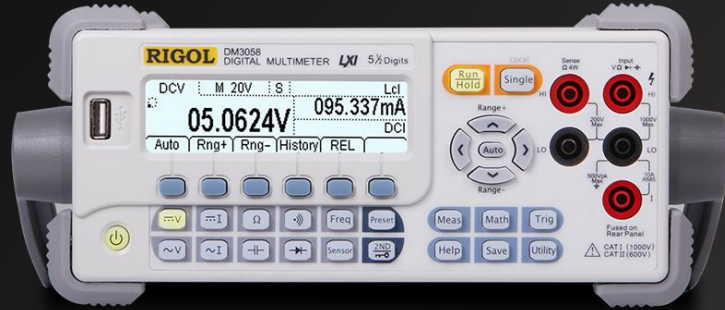
Total Power: 350W

Voltage: 150V

Current: 60A

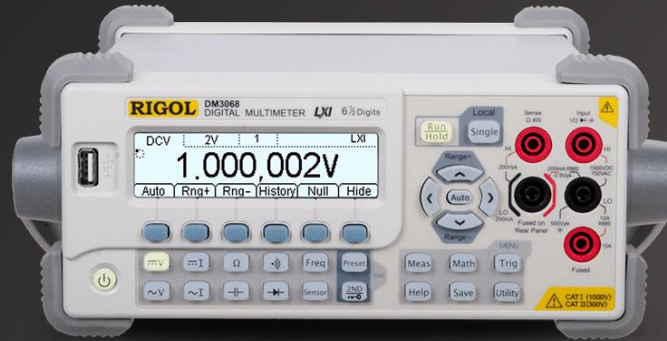
Highest Frequency: 30kHz

RIGOL Multimeters and Data-aquisition



DM3068 Series Digital Multimeter

Precision: 6.5 digits
DCV Annual Accuracy: 0.0035%
Fastest Test Rate: 10K rdgs/s
Connectivity: USB, GPIB, LAN(LXI-C), RS232



DM3058/E Series Digital Multimeter

Precision: 5.5 digits
DCV Annual Accuracy: 0.015%
Fastest Test Rate: 123 rdgs/s
Connectivity : USB, GPIB (only DM3058) ,
LAN(only DM3058), RS232



M300 Data Acquisition Switch System

Number of Slots: 5
Type: 8
Built in: 6½ digits
最大扫描速度: 60 Ch/s
单机最大通道数: 320

RIGOL Digital multimeter: Launched this year!



DM858:

- 5½ digits readings resolution
- Up to 125 rdgs/s measurement speed
- 500,000 points logging memory
- Provides a 0.03% annual accuracy
- Measures 11 input signals
- Trend chart, histogram, and bar table - three visual display options
- Standard interfaces: USB , LAN
- 7" color touchscreen display
- Type-C power interface

DM858E:

- 5½ digits readings resolution
- Up to 80 rdgs/s measurement speed
- 200,000 points logging memory
- Provides a 0.06% annual accuracy
- Measures 11 input signals
- Trend chart, histogram, and bar table - three visual display options
- Standard interfaces: USB , LAN
- 7" color touchscreen display
- Type-C power interface

03

Marketing & Application

RIGOL Focus on customers and provide multi-level solutions

New Energy

Electric vehicle battery test
Power supply test
Vehicle electronic test
Loop response test
Bidirectional motor test
Power harmonic test
Power ripple test
Power aging/temperature rise test

Communication

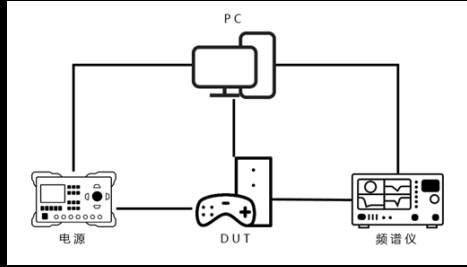
Cellular-5G
Bluetooth
Bus
RFID
WIFI-MIMO
Wired optical communication
WLAN/WIFI
Ethernet
WIMAX
Serial bus debugging
MIMO beamforming and simulation
Low power Bluetooth performance test

Semiconductor

MEMS test
IGBT test
C-V testing of semiconductor components
High speed ADC test
High-speed I/O chip test_LVDS
MOSFET test solution
Chip low power mode analysis

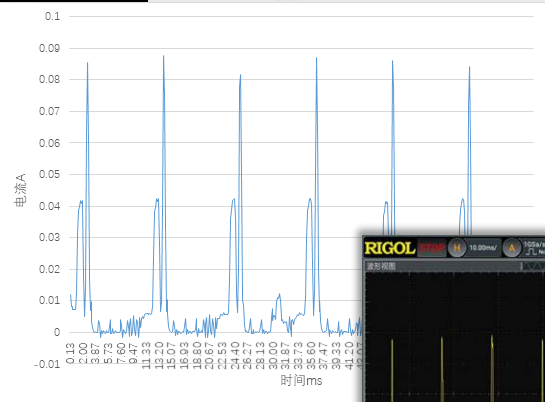
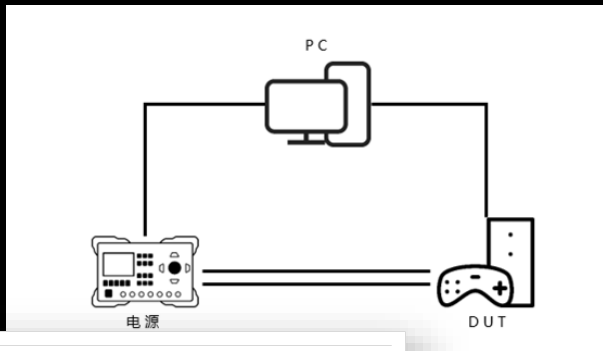


Consumer Electronics Factory Test-Test solution of rapid change current



▲ Traditional test solution

▼ RIGOL new test solution



In the design and production processes of consumer electronics, there may be issues with unstable wireless signal transmission functionality, leading to a series of problems such as wireless delays and inaccurate signal transmission. These issues can severely impact the user experience. To address this, a simple, fast, efficient, and cost-effective factory testing of products can be achieved by quickly monitoring the current changes during the wireless signal transmission of consumer electronics. This allows for a rapid determination of whether the wireless signal can be transmitted properly and whether the product can function correctly.

● Test Object

Consumer Electronics Wireless Signal Functionality Test



● Test Solution

Utilizing RIGOL programmable linear DC power supply to power the testing system, simultaneously utilizing the power supply's feedback feature to monitor the current fluctuations of consumer electronics during wireless signal transmission.

● Application

R&D
Industrial production

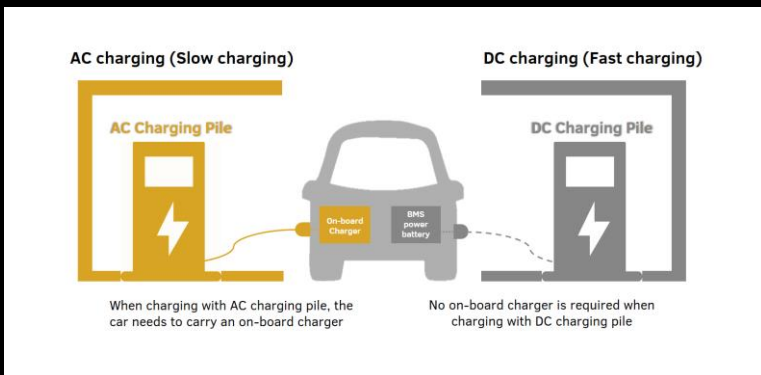
● Production

RIGOL DP2000 series programmable linear DC power supply

● Advantage

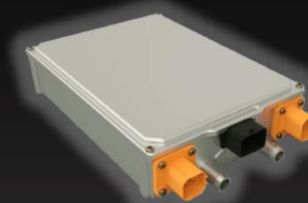
No need for spectrum analyzers, save test cost
High current readback accuracy

OBC Test of New Energy Vehicle On-board Charger



Test Object

On-board Charger



Application

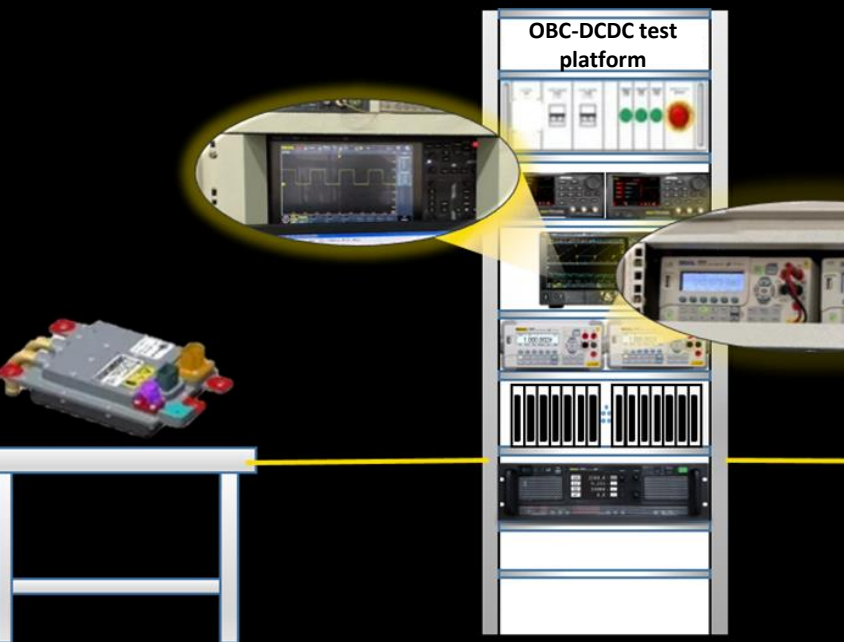
Automotive R&D
 Industrial production

Production

DHO4000 series high-resolution digital oscilloscope
 DP2000 series programmable linear DC power supply
 DM3068 series 6.5 digits digital multimeter
 DG2000 series function/arbitrary waveform generator

Test Solution

SN	Test Item	SN	Test Item
1	Low voltage power-on test	9	DCDC startup test
2	Signal and wake test	10	Calibration test
3	Power-on test	11	Post-calibration test
4	Calibration test	12	Output short-circuit test
5	Post-calibration test	13	Output ripple efficiency test
6	High voltage performance test	14	Write logistics information
7	Input undervoltage test	15	Modules and checks
8	Input overvoltage test		





THANK YOU