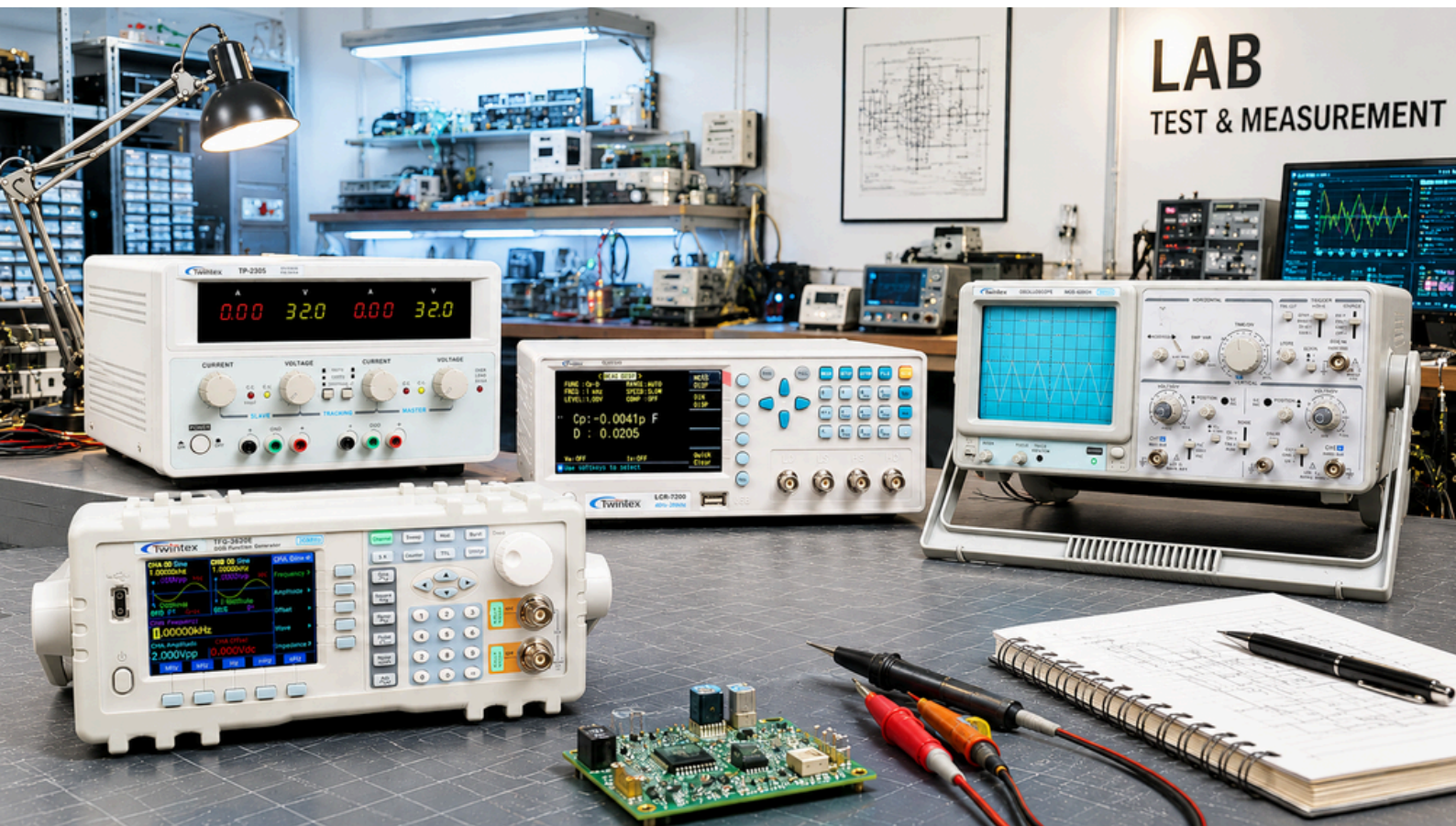




# Product Catalog



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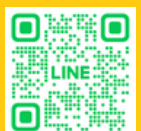
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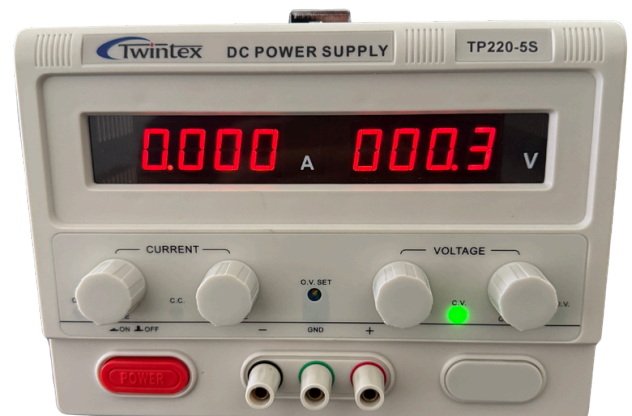
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# Regulated DC Power Supplies



The Twintex TP-S Series is a high-power output DC power supply designed for various industrial applications, offering high accuracy, high stability, and low ripple & noise

- Performance & Output Range

Max. Output Power: Ranging from 200W to 6kW

Max. Output Voltage: Up to 800V

Max. Output Current: Up to 200A

Control Technology: Utilizes advanced PWM (Pulse Width Modulation) control technology

Operation Modes: Supports both Constant Voltage (CV) and Constant Current (CC) operations with an Auto CV/CC switch

Adjustment: Features Coarse and Fine control knobs for precise voltage and current settings

- Protection Systems

To ensure safety for both the device and the connected load, the series includes several protection features:

Over Voltage Protection (OVP): Adjustable range

Over Current Protection (OCP): Fixed at 105% of the maximum current range

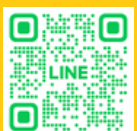
Additional Protections: Over Temperature Protection (OTP), Over Load Protection, and Over Power Protection

Cooling: Equipped with an intelligent temperature control cooling fan

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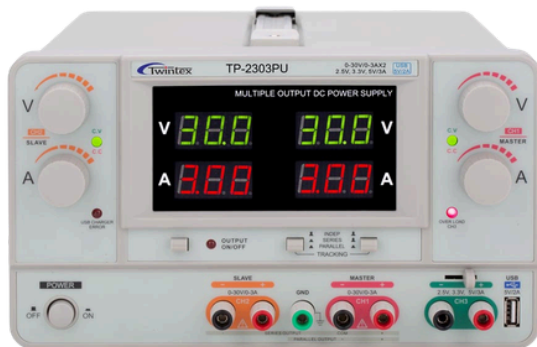


### TP4000N Series Laboratory Regulated Linear Quad Output 4-Channel DC Power Supply



- Linear mode Quad Output 4-Channel DC Power Supply
- Two main channels rated 30V 3A, 30V 5A or 50V 3A
- Two auxiliary channels with 2.2~15V adjustable at max 1A
- Constant voltage and constant current operations, auto CV and CC switch
- Low ripple and noise, low temperature drift
- Auto Series and Parallel tracking operations
- Output ON/OFF control
- Preset function, setting of voltage and current with output open circuit
- High efficiency, high power density
- Over load and reverse polarity protections
- Dual-color four digital panel meters
- SMD PCB, high quality, high reliability

### TP-2000PU Series Laboratory Multi-output Linear DC Power Supply with USB 5V 2A

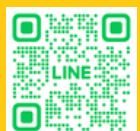


- 30V 3A, 30V 5A and 50V 3A Laboratory Multi-output Linear DC Power Supply
- Two adjustable channels
- One fixed channel 2.5V 3.3V 5V 3A
- One fixed channel 5V 2A via USB port
- Constant voltage and constant current operations, auto CV and CC switch
- Low ripple and noise, low temperature drift
- Auto Series and Parallel tracking operations
- Output ON/OFF control
- Preset function, setting of voltage and current with output open circuit

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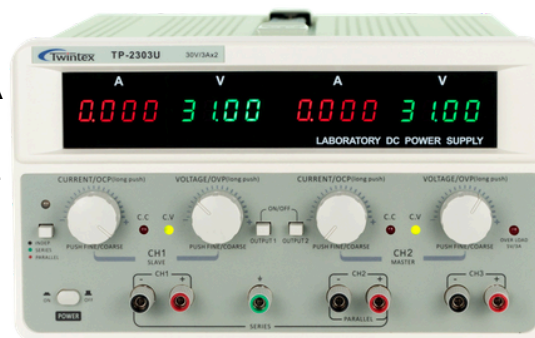
### TP-2000N Series Laboratory Multi Output Linear DC Power Supply 30V 3A, 30V 5A and 50V 3A

- Laboratory multi output linear DC power supply
- Dual adjustable output 30V 3A, 30V 5A or 50V 3A
- One fixed 2.5V 3.3V 5V 3A
- Constant voltage and constant current operations, auto CV and CC switch
- Low ripple and noise, low temperature drift
- Auto Series and Parallel tracking operations
- Output ON/OFF control
- Preset function, setting of voltage and current with output open circuit
- High efficiency, high power density
- Over load and reverse polarity protections
- Dual-color four digital panel meters



### TP-2000U Series Adjustable Triple Channel Linear DC Power Supply 30V 3A, 30V 5A, 60V 3A, 60V 5A

- Adjustable triple channel linear DC power supply
- Two adjustable channel 0V 3A, 30V 5A, 60V 3A and 60V 5A
- One fixed channel 5V 3A
- Dual color 4 digits LED display, resolution 10mV 1mA
- Encoder knob for coarse and fine V&I adjustment
- Lock V&I adjustment to a certain range to avoid over-range adjustment
- Preset voltage and preset current function
- Low ripple and noise, low temperature drift
- Auto Series and Parallel tracking operations
- Independent output ON/OFF control for CH1 and CH2
- OVP, OCP and reverse polarity protections



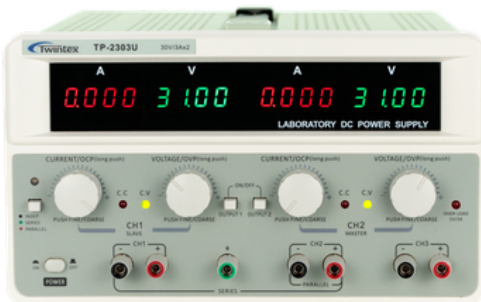
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### TP-2000U Series Adjustable Triple Channel Linear DC Power Supply 30V 3A, 30V 5A, 60V 3A, 60V 5A



- Adjustable triple channel linear DC power supply
- Two adjustable channel 0V 3A, 30V 5A, 60V 3A and 60V 5A
- One fixed channel 5V 3A
- Dual color 4 digits LED display, resolution 10mV 1mA
- Encoder knob for coarse and fine V&I adjustment
- Lock V&I adjustment to a certain range to avoid over-range adjustment
- Preset voltage and preset current function
- Low ripple and noise, low temperature drift
- Auto Series and Parallel tracking operations
- Independent output ON/OFF control for CH1 and CH2
- OVP, OCP and reverse polarity protections

### TP-2000/2000TK Series Variable Laboratory Triple Output Linear DC Power Supply



- Two independent adjustable outputs 0~30V/0~3A x2, 0~30V/0~5A x2
- One fixed output 5V/3A x1
- Output ON/OFF control
- Preset function, setting of voltage and current with output open circuit (TP-2303TK, TP-2305TK)
- Constant voltage and constant current operations, auto CV and CC switch
- Low ripple and noise, low temperature drift
- Auto Series and Parallel tracking operations
- High efficiency, high power density
- Over load and reverse polarity protections
- Dual-color four digital panel meters

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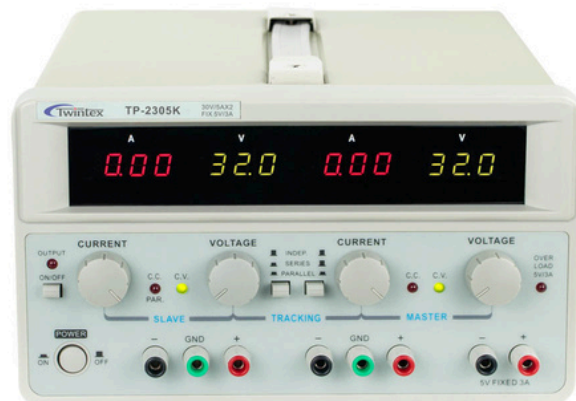
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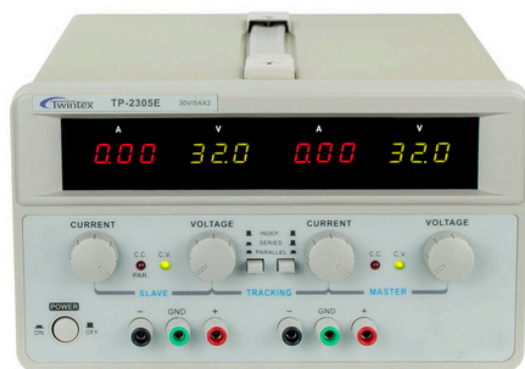
### TP-2000K Series Multi Channel Linear DC Power Supply 30V 3A and 30V 5A

- 30V 3A and 30V 5A multi channel linear DC power supply
- Two independent adjustable channels 0~30V
- One fixed channel 5V 3A
- Output ON/OFF control
- Constant voltage and constant current operations, auto CV and CC switch
- Low ripple and noise, low temperature drift
- Auto Series and Parallel tracking operations
- High efficiency, high power density
- Over load and reverse polarity protections
- Dual-color four digital panel meters



### TP2000E Series 180W/300W Dual Output Linear DC Power Supply 30V 3A / 30V 5A per Channel

- Dual output linear DC Power supply 30V 3A / 30V 5A per channel
- Constant voltage and constant current operations, auto CV and CC switch
- Low ripple and noise, low temperature drift
- Auto Series and Parallel tracking operations
- High efficiency, high power density
- Over load and reverse polarity protections
- Dual-color four digital panel meters



### TP-2000C Series Laboratory Multi-channel Linear DC Power Supply 30V 3A and 30V 5A

- Laboratory multi-channel linear DC power supply 30V 3A and 30V 5A
- Two independent adjustable outputs 0~30V/0~3A x2, 0~30V/0~5A x2
- One fixed output 5V/3A x1
- Constant voltage and constant current operations, auto CV and CC switch
- Low ripple and noise, low temperature drift
- Auto Series and Parallel tracking operations
- High efficiency, high power density
- Over load and reverse polarity protections
- Dual-color four digital panel meters



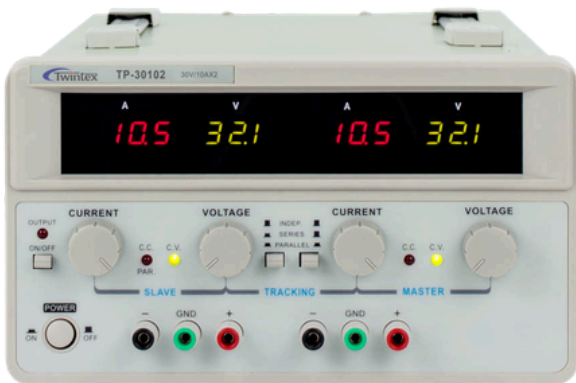
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### TP-30102 & TP-60052 Laboratory Adjustable Linear DC Power Supply with Dual Output 30V 10A 60V 5A



- Two independent adjustable outputs 0~30V/0~10A x2 (TP-30102), 0~60V/0~5A x2 (TP-60052)
- Constant voltage and constant current operations, auto CV and CC switch
- Low ripple and noise, low temperature drift
- Auto Series and Parallel tracking operations
- Output ON/OFF control
- Preset function, setting of voltage and current with output open circuit
- High efficiency, high power density
- Over load and reverse polarity protections
- Dual-color four digital panel meters



### TP1000C Series Variable Single Output 30V 3A 5A 60V 3A DC Regulated Linear Power Supply

- Constant voltage and constant current operations
- Auto CV and CC switch
- High efficiency, light and compact design
- High power density
- Over load and reverse polarity protections
- Dual-color two digital panel meters

### 600W Lab Grade DC Regulated Linear Power Supply 30V 20A and 60V 10A



- Lab Grade DC Regulated Linear Power Supply 30V 20A and 60V 10A
- Constant voltage and constant current operations
- Auto CV and CC switch
- Output ON/OFF control
- Preset function, setting of voltage and current with output open circuit
- High efficiency, light and compact design
- High power density
- Over load and reverse polarity protections

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# Meters



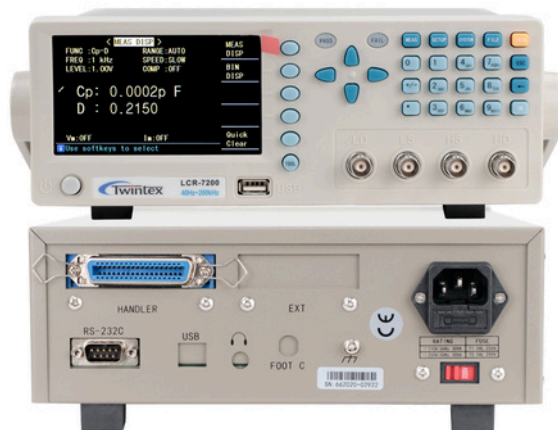
## TM-8055 True RMS 4 1/2 Digital Bench Type Multimeter

- Large backlit LCD, 4 1/2 digits
- With basic DCV, ACV, DCA, ACA,  $\Omega$ , CAP, Hz, hFE, Diode and Continuity measuring functions
- Voltage range up to 1000V DC or peak-peak value AC, resolution up to 10uV
- Current range up to 20A, auto polarity shift, data hold
- AC measuring adopts highly accurate true RMS measurement, with frequency bandwidth and AC+DC measuring, capable of accurate true RMS measuring of any waveforms in AC range



## LCR7000A 0.05% Accuracy High Precision Professional Digital LCR Meter 100kHz 200kHz 300kHz 500kHz

- Frequency 100kHz, 200kHz, 300kHz and 500kHz
- 32-bit core processor
- 5-digit 4.3-inch TFT LCD display
- 4 signal source output impedance: 30 $\Omega$ , 100 $\Omega$ , 10/100, /10CC
- 100 sets memories for internal storage/save
- 500 memories for U disk storage/save, supports FAT16 and FAT32 files
- Save the last parameter settings before power off
- Standard interface: RS-232, HANDLER, USB HOST



## LCR7000 Lab Grade 0.1% Accuracy Bench Precision Digital LCR Meter 10kHz 30kHz 200kHz

- 32-bit core processor
- 5-digit 4.3-inch TFT LCD display
- 2 signal source output impedance: 30 $\Omega$ , 100 $\Omega$
- 100 sets memories for internal storage/save
- 500 memories for U disk storage/save, supports FAT16 and FAT32 files
- Save the last parameter settings before power off
- Standard interface: RS-232, HANDLER, USB HOST



## TM-2212 Bench Type AC DC True RMS Digital Power Meter 1000V 50App 50kW

- Bench type AC/DC digital power meter
- Measurements: V/A/W/VA/VAR/PF/Hz/CF
- Large screen LCD display, 4 or 6 parameters displayed simultaneously
- True RMS V, A, W
- Auto calibration via computer
- Data Hold / Range Hold function
- High immunity to external noise
- CT ratio(1~9999)

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# Signal Sources

## TFG3000 Series Dual Channel Arbitrary Waveform Generator 25MHz 40MHz 60MHz 100MHz

- 25MHz 40MHz 60MHz 100MHz Dual Channel Arbitrary Waveform Generator (AWG)
- Sampling rate 300MSa/s, vertical resolution 16 bits, waveform length 2M points
- 2 independent output channels at same frequency range
- 4.3-inch TFT LCD display
- 7 standard waveforms, 160 built-in arbitrary waveforms
- 16-order Harmonic waveform output
- Modulations: AM, DSB-AM, FM, PM, ASK, FSK, PSK, BPSK, QPSK, 3FSK, 4FSK, OSK, PWM
- Synchronous output of CH1 and CH2
- Multiple I/O: waveform output, sync signal output, modulation input, 10MHz clock input/output and trigger input/output



- Powerful arbitrary waveform editing PC software, support SCPI commands
- 80MHz counter, support measurement of frequency, period, duty cycle, positive pulse width and negative pulse width
- Over voltage, over current, short circuit and reverse voltage protections
- Interface: USB device, USB Host

## TFG3200E Series Dual Channel DDS Function Generator 5MHz 10MHz 15MHz 20MHz

- Max. output frequency 5MHz/10MHz/15MHz/20MHz
- 2 output channels
- Mono LCD display
- Direct Digital Synthesis technology (DDS)
- Min. output amplitude 1mV (50Ω) with good stability
- Sampling rate 100MSa/s, vertical resolution 8 bits, waveform length 1024 points
- 32 built-in waveforms
- 40 sets save & recall for panel settings
- Modulations: FM, FSK, ASK, PSK
- Frequency sweep, amplitude sweep, burst and TTL output functions
- Over voltage, over current, short circuit and reverse voltage protections
- High speed rotary dial and keypad input
- Standard 200MHz external frequency counter
- Optional RS-232 interface for PC remote control
- Optional power amplifier



## SG-150 RF Signal Generator with Frequency Range 100kHz to 150MHz

SG-150 is a RF signal generator with frequency range of 100kHz to 150MHz, which can be extended to 450MHz via the 3rd harmonics. It is commonly used to create radio frequency signals.

The RF signal generator has continuously adjustable level as well as AM & FM functions. The output level adopts ALC (Auto Level Control) circuit to reduce fluctuation of the output amplitude. The RF signal generator is an essential tool for testing and developing electronic devices, including evaluating components like amplifiers, filters, and mixers.



## TFG3600E Series Dual Channel Arbitrary Function Generator 5MHz 10MHz 15MHz 20MHz

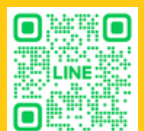
- Dual Channel 5MHz 10MHz 15MHz 20MHz Arbitrary Function Generator
- 5-inch TFT LCD display
- Direct Digital Synthesis technology (DDS)
- output amplitude 1mV (50Ω) with good stability
- Sampling rate 100MSa/s, vertical resolution 8 bit, waveform length 1024 points
- Arbitrary waveform function
- 32 built-in waveforms and 8 user-defined arbitrary waveforms
- 40 sets save & recall for panel settings
- Modulations: FM, FSK, ASK, PSK
- Frequency sweep, amplitude sweep, burst and TTL output functions
- Over voltage, over current, short circuit and reverse voltage protections
- High speed rotary dial and keypad input
- Standard RS-232 interface for PC remote control
- Standard 200MHz external frequency counter



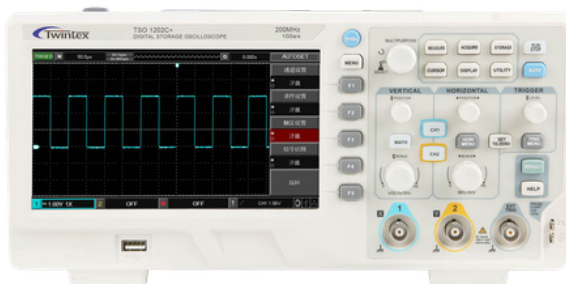
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# Oscilloscopes



## TSO1000C+ Series Digital Storage Oscilloscope 70MHz 100MHz 150MHz 200MHz

- 70MHz 100MHz 150MHz 200MHz digital storage oscilloscope
- 7-inch TFT LCD, WVGA (800\*480)
- Vertical sensitivity: 1mV/div~20V/div
- Time-based range: 2ns/div~50s/div
- 5,000wfms/s waveform acquisition rate
- 34 auto measurements
- Memory depth 64kpts
- USB drive system software upgrade
- Standard interface: USB Host, USB Device, Pass/Fail



## TOS2000C Series Cathode Ray Tube (CRT) Dual Channel Analog Oscilloscope 20MHz 30MHz 40MHz 50MHz

- Dual channel 20MHz / 30MHz / 40MHz / 50MHz
- 10 times sweep magnification
- TV synchronization; X-Y mode
- High illumination internal graticule CRT
- Encoded switch, reliable and durable
- Fully sealed durable attenuation switch
- ALT triggering function, enabling simultaneous observation of two independent signals



## TOS-2100C Dual Trace CRT Cursor Readout Analog Oscilloscope 100MHz with Delayed Sweep Auto Time Base

- Dual channel 100MHz
- Time base auto-range
- Cursor readout with 7 measurements
- Panel lock function
- Buzzer alarm
- LED indicators
- TV synchronization; X-Y mode
- Z-axis modulation input; Trigger signal output
- Signal delay function, monitoring the leading edge
- Continuously adjustable screen illumination
- Delayed sweep
- 10 sets save & recall for panel settings

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