



70MHz to 200MHz 2 Channel Digital Storage Oscilloscopes 1GSa/s Real Sample Time



Features

- 200 / 100 / 70MHz Bandwidths
- IGSa/s Real Time Sample Rate
- Trigger Mode : Edge, Pulse Width, Video, Slop, Overtime, Alternative Trigger etc.
- Provides Software for PC Real-time Analysis
- Five Math Functions, +, -, *, /, and FFT functions
- 32 Automatic Measurements and Track Measurement via Cursor Automatically
- Large (7") Color Display, WVGA (800 x 480)
- Support U Disk and Local Files Storage
- Pass / Fail Function Enables to Output Testing Results

Applications

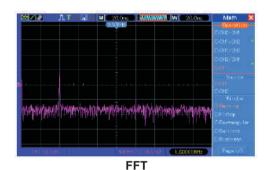
- Design and Debug
- Education and Training
- Manufacturing Test and Quality Control
- Service and Repair
- Electronic Circuit Designing and Testing

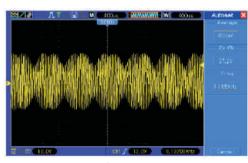
Technical Specification

ACQUISITION	
Sample Rate	Real-Time Sample: 1GS/s;
	Equivalent Sample: 25GS/s.
Acquisition Modes	
Normal	Normal data only.
Peak Detect	High-frequency and randon glith capture.
Average	Wavefom Average, selectable 4, 8, 16, 32, 64, 128.
Inputs	
Input Coupling	AC, DC, GND
Input Impendance	1MΩ ±2%, 20pF ±3pF.
Probe Attenuation	1X, 10X.
Supported Probe Attenuation Factor	1X, 10X, 100X, 1000X.
Max. Input Voltage	CAT I and CAT II : 300V RMS (10X); Installation Category III : 150V RMS (1X); Installation Category II : derate at 20dB/decade above 100kHz to 13V peak AC at 3MHz and above. For non-sinusoidal waveforms, peak value must be less than 450V. Excursion above 300V should be less than 100ms duration. RMS signal level including all DC components removed through AC coupling must be limited to 300V. these values are exceeded, damage to the oscilloscope may occur.
HORIZONTAL	
Waveform Interpolation	(sin x) / x.
Record Length	24К.
SEC/DIV Range	2ns/div to 40s/div, in a 2, 4, 8 sequence, D37200A. 4ns/div to 40s/div, in a 2, 4, 8 sequence, D37100A / D37070A
Sample Rate and Delay Time Accuracy	±50ppm (at over any =1ms time interval).
Position Range	D37200A : 2ns/div to 10ns/div; (-4div x s/div) to 20ms; D37100A / D37070A : 20ns/div to 80us/div; (-8div x s/div) to 40ms; 200µs/div to 40s/div; (-8div x s/div) to 400s;
Delta Time Measurement Accuracy (Full Bandwidth)	Single-shot, Normal mode : ± (1 sample interval +100ppm x reading + 0.6ns); >16 averages : ± (1 sample interval + 100ppm x reading + 0.4ns); Sample Interval = s/div + 200.
VERTICAL	
Vertical Resolution	8-bit resolution, all channel sampled simultaneously.
Volts/Div Range	2mV/div ~ 5V/div.
Position Range	2mV/div to 200mV/div; ±2V; 200mV/div to 5V/div; ±50V.
Bandwidth	D37200A: 200MHz; D37100A: 100MHz; D37070A: 70MHz;
Rise Time at BNC (Typical)	D37200A: 1.8ns; D37100A: 3.5ns; D37070A: 5ns
Analog Bandwidth in Normal and Average Modes at BNC or with probe, DC Coupled	2mV/div to 20mV/div, ±400mV; 50mV/div to 200mV/div, ±2V; 500mV/div to 2V/div, ±40V; 5V/div, ±50V.
Math	+, -, *, +, FFT.
FFT	Windows : Hanning, Flatop, Rectangular, Bartlett, Blackman; 1024 sample point.
Bandwidth Limit	20MHz.
Low Frequency Response (-3dB)	<10Hz at BNC.
DC Gain Accuracy	±3% for Normal or Average acquisition mode, 5V/div to 10mV/div; ±4% for Normal or Average acquisition mode, 5mV/div to 2mV/div.
DC Measurement Accuracy, Average Acquisition Mode	When vertical displacement is zero, and N \geq 16 : ±(3% x reading + 0.1 div + 1mV) only. 10mV/div or greater is selected; When vertical displacement is not zero, and N \geq 16 : ± [3% x (reading vertical position) + 1% of vertical position + 0.2div]; Add 2mV for settings from 2mV/div to 200mV/div; add 50mV for settings from 200mV/div to 5V/div.
Volts Measurement Repeatability, Average Acquisition Mode	Delta volts between any two averages of >=16 waveforms acquired under same setup and ambient conditions.
TRIGGER	
Trigger Types	Edge, Video, Pulse, Slope, Over time, Alternative
Trigger Source	CH1, CH2, EXT, EXT/5, AC Line
Trigger Modes	Auto, Normal
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(Edge Trigger Type)1div frc DC (EX 200mV DC (EX 200mV DC (EX 1V from AC : Attenua HF Rej Same aTrigger Level RangeCH1/CL EXT : ± EXT/5Trigger Level Accuracy (typical) Accuracy is for signals having rise and fall times >=20nsCH1/CL EXT : ± EXT/5Set Level to 50% (typical)Operate Trigger Holdoff range100ns -Video TriggerVideo Trigger00ns -Video Trigger TypeCH1, C EXT : 4 EXT/5Holdoff Range100ns -Pulse Width Trigger ModeTriggerPulse Width Trigger PointEqual 3 Not Eq Otherw Width.Pulse Width Range20ns ~Over Time ModeTriggerTime Range20ns ~Slope Trigger PointEqual 3 Not Eq CHan 4 Create than thPulse Width Range20ns ~Slope Trigger PointEqual 3 Not Eq CHan 4 Create than thPulse Width Range20ns ~Slope Trigger PointEqual 3 Not Eq Create CHan 4 Create Time RangeSlope Trigger PointEqual 3 Create Create Create Time RangeSlope Trigger PointEqual 3 Create Creat	from DC to 100MHz; 350mV from 100MHz to 200MHz; T/5) : n DC to 100MHz; 1.75V from 100MHz to 200MHz; thes signals below 10Hz. ect : thes signals above 80kHz. ect : as the DC-coupled limits for frequencies above 150KHz; Attenuates signals below 150KHz. H2 : ±8 divisions from center of screen; 1.2V; ±6V. H2 : 0.2 div x volts/div within ±4 divisions from center of screen; (6% of setting + 40mV); ±(6% of setting + 40mV); ±(6% of setting + 200mV). as with input signals ≥50Hz. 10s. H2 : Peak-to-peak amplitude of 2 divisions; 00mV; 2V. ~ 10s. When (<, >, =, or =); Positive pulse or Negative pulse. The oscilloscope triggers when the trailing edge of the pulse crosses the trigger level. ual : If the pulse is narrower than the specified width, the trigger point is the trailing edge. ise, the oscilloscope triggers when a pulse continues longer than the time specified as the Pulse than : The trigger point is the trailing edge. r than (also called overtime trigger) : The oscilloscope triggers when a pulse continues longer e time specified as the Pulse Width.
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Video Trigger Type CH1, C EXT : 4 EXT/5 Holdoff Range 100ns · Pulse Width Trigger Mode Trigger Pulse Width Trigger Point Equal : Not Equal : Not Equal : Otherw Width. Less ti Greate Time Range 20ns ~ Over Time Mode Rising · Time Range 20ns ~ Slope Trigger Mode Trigger Slope Trigger Mode Trigger Slope Trigger Opint Equal : Not Equal : Not Equal : Time Range 20ns ~ Slope Trigger Mode Trigger Slope Trigger Opint Equal : Not Equal : Not Equal : Time Range 20ns ~ Alternative Trigger Cons ~ Trigger on CH1 Interna Trigger on CH2 Interna Trigger Frequency Counter Readout Resolution Accuracy (Typical) ±30ppr Frequency Range AC cou Signal Source Pulse W	00mV; 2V. - 10s. when (<, >, =, or =); Positive pulse or Negative pulse. The oscilloscope triggers when the trailing edge of the pulse crosses the trigger level. ual : If the pulse is narrower than the specified width, the trigger point is the trailing edge. ise, the oscilloscope triggers when a pulse continues longer than the time specified as the Pulse han : The trigger point is the trailing edge. r than (also called overtime trigger) : The oscilloscope triggers when a pulse continues longer e time specified as the Pulse Width.
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Pulse Width Trigger Point Equal: Not Equal: Not Equal: Not Equal: Not Equal: Not Equal: Not Equal: Not Equal: Second State Pulse Width Range 20ns ~ Overtime Trigger 20ns ~ Over Time Mode Rising ~ Time Range 20ns ~ Slope Trigger Mode Trigger Slope Trigger Mode Trigger Slope Trigger Point Equal: Not Equal	The oscilloscope triggers when the trailing edge of the pulse crosses the trigger level. ual : If the pulse is narrower than the specified width, the trigger point is the trailing edge. ise, the oscilloscope triggers when a pulse continues longer than the time specified as the Pulse han : The trigger point is the trailing edge. r than (also called overtime trigger): The oscilloscope triggers when a pulse continues longer e time specified as the Pulse Width.
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Not Equess til Time Range 20ns ~ Alternative Trigger 7 Trigger on CH1 Interna Trigger on CH2 Interna Trigger Frequency Counter 7 Readout Resolution 6 digits Accuracy (Typical) ±30ppr Frequency Range AC course Signal Source Pulse W The Frequency 7	when (<, >, =, or =); Positive slope or Negative slope. The oscilloscope triggers when the waveform slope is equal to the set slope.
Time Range20ns ~Alternative TriggerInternaTrigger on CH1InternaTrigger on CH2InternaTrigger Frequency CounterInternaReadout Resolution6 digitsAccuracy (Typical)±30pprFrequency RangeAC couSignal SourcePulse VThe FrequencyInterna	 an : The oscilloscope triggers when the waveform slope is equal to the set slope. an : The oscilloscope triggers when the waveform slope is less than the set slope. an : The oscilloscope triggers when the waveform slope is less than the set slope.
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Trigger Frequency Counter Readout Resolution 6 digits Accuracy (Typical) ±30ppr Frequency Range AC cou Signal Source Pulse V The Frequency acquisit The Frequency	Trigger : Edge, Pulse Width, Video, Slope.
Readout Resolution 6 digits Accuracy (Typical) ±30ppr Frequency Range AC cou Signal Source Pulse V The Fre acquisi	Trigger : Edge, Pulse Width, Video, Slope.
Accuracy (Typical) ±30ppr Frequency Range AC cou Signal Source Pulse V The Fre acquisi	
Frequency Range AC could Signal Source Pulse V The Frequency acquisi	
Signal Source Pulse V The Fre acquisi	n (including all frequency reference errors and ±1 count errors).
The Free acquisi	pled, from 4Hz minimum to rated bandwidth.
acquisi	Vidth or Edge Trigger modes: all available trigger sources.
	equency Counter measures trigger source at all times, including when the oscilloscope tion pauses due to changes in the run status, or acquisition of a single shot event has
Pulse V	Vidth Trigger mode : The oscilloscope counts pulses of significant magnitude inside the 1s
	rement window that qualify as triggerable events, such as narrow pulses in a PWM pulse train if
	mode and the width is set to a relatively small time.
MEASUREMENT	rigger Mode : The oscilloscope counts all edges of sufficient magnitude and correct polarity. rigger Mode : The Frequency Counter does not work.
	rigger Mode : The oscilloscope counts all edges of sufficient magnitude and correct polarity. rigger Mode : The Frequency Counter does not work.
	rigger Mode : The Frequency Counter does not work.
Recipro	
	rigger Mode : The Frequency Counter does not work. I : Voltage difference between cursors : ΔV ; fference between cursors : ΔT ; pocal of ΔT in Hertz (1/ ΔT);
	Trigger Mode : The Frequency Counter does not work. I : Voltage difference between cursors : ΔV ; fference between cursors : ΔT ; bcal of ΔT in Hertz (1/ ΔT); g : The voltage and time at a waveform point.
	Trigger Mode : The Frequency Counter does not work. I : Voltage difference between cursors : ΔV ; fference between cursors : ΔT ; pcal of ΔT in Hertz (1/ ΔT); g : The voltage and time at a waveform point. ncy, Period, Mean, Pk-Pk, Cycli RMS, Minimum, Maximum, Rise time, Fall Time,
LRF, LI	rigger Mode : The Frequency Counter does not work. I : Voltage difference between cursors : ΔV ; fference between cursors : ΔT ; becal of ΔT in Hertz (1/ ΔT); g : The voltage and time at a waveform point.
Auto Measuerment Freque +Pulse	Trigger Mode : The Frequency Counter does not work. I : Voltage difference between cursors : ΔV ; Iference between cursors : ΔT ;

DISPLAY	
Display Type	7" 64K color TFT (diagonal liquid crystal).
Display Resolution	800 horizontal by 480 vertical pixels.
Display Contrast	Adjustable (16 gears) with the progress bar.
PROBE COMPENSATOR OUT	TPUT
Output Voltage (Typical)	About 5Vpp into \geq 1M Ω load.
Frequency (Typical)	1KHz.
POWER SUPPLY	
Supply Voltage	100 - 120V AC RMS (±10%), 45Hz to 440Hz, CAT II. 120 - 240V AC RMS (±10%), 45Hz to 66Hz, CAT II.
Power Consumption	<30W.
Fuse	2A, T rating, 250V.
Dimension (mm)	313 (L) x 108 (W) x 142 (H).
Net Weight	2.08 Kg.

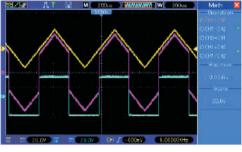




Autoset



Dual-window Mode (Full Screen)



Math: CH1+CH2

Designed to Make Your Work Easy

The DSO Series oscilloscopes are designed with the ease of use and familiar operation you have come to expect from Aplab.

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Easy PC Connectivity

Easily capture, save, and analyze measurements results by connecting to your PC with the rear-panel USB device port. Simply pull screen images and waveform data into the stand-alone desktop application.

Test & Measurement Instruments Division

Aplab Limited, Plot No. 12, TTC Industrial Area, Thane Belapur Road, Digha, Navi Mumbai - 400 708. India. Email : tmisales@aplab.com