

25MHz Color Digital Storage Oscilloscope



Aplab model 36025D is a low cost high performance, light weight , 2 Channels COLOR desktop DSO with 25MHz Bandwidth. It has max. Real-time sampling speed of 100MSa/s and record length of 6K words on each channel. A color 8" TFT LCD with adjustable backlight is used for bright clear display. Storage is as simple as pressing the button. It has Auto-Set function capable of fast settings. Cursor and automatic measurements greatly simplify the analysis of the events. It comes with built-in USB and RS232 port for PC communication. It also comes with built-in battery charger and can be operated on rechargeable Li-ion batteries. It is a truly portable diagnostic tool.

Features

- Easy-to-read wide 8" TFT (Liquid Crystal Display), with adjustable back light
- Dual Channel, Bandwidth : 25MHz per channel
- Sample Rate (Real-time) up to 100MSa/s on each channel
- (sin x)/x Waveform Interpolation, 8 bit Resolution
- Average and Peak detection
- Advanced Triggering on Edge, Video
- 5 Automatic Measurements
- Manual Cursor Measurement
- 4 Waveforms, Store/Recall
- +, - Mathematical Functions
- Zoom with Delay Scan
- Built-in USB and RS232 Interface
- Auto-set, Capable of Fast Setting
- Automatic Calibration
- Battery Operation
- Built-in Battery Charger

Specifications

VERTICAL	
Analog Digital Converter A/D	: With the resolution of 8 bits, make sampling on both channels synchronously.
Sensitivity Range V/div	: 5mV/div - 5V/div at the input BNC.
Displacement Range	: ± 10 div (5mV/div - 5V/div).
Analog Bandwidth	: 25MHz.
Single Bandwidth	: Full Bandwidth.
Low Frequency Response AC Coupling, -3dB	: ≥ 5 Hz at the BNC.
Rise Time Typical one at the BNC	: ≤ 14.0 ns.

DC Gain Accuracy	: $\pm 5\%$.
DC Measurement Accuracy Average Value Sampling Mode	: The voltage difference (V) between any two points on the waveform after averaging the captured waveforms more than 16 : $\pm(5\%$ reading +0.05 divisions).
INPUT	
Input Coupling	: DC, AC.
Input Impedance	: $1M\Omega \pm 2\%$ connected in parallel with $20pF \pm 3pF$.
Probe Attenuation Coefficient	: 1X, 10X, 100X, 1000X.
Max. Input Voltage	: 300V (peak).
Channel Delay Time (Typical)	: 250 ps.

SAMPLING

Sampling Modes	: Normal Sampling, Peak Detection, Average Value.
Sampling Rate	: 100MSa/s

HORIZONTAL

Sampling Rate	: 10S/s - 100MS/s.
Waveform	: sin x / x.
Interpolation	
Record Length	: 6K points on each channel.
Scanning Speed Range S/div	: 5ns/div - 5s/div, stepping in the 1 - 2.5 - 5 sequence.
Sampling Rate and Relay Time Accuracy	: ± 100 ppm (any time interval which is equal to or larger than 1ms).
Time Interval	: Single : ± 1 sampling interval time + 100 ppm x reading +0.6ns).
(T)measurement Accuracy Full Bandwidth	: >average 16 : $\pm(1$ sampling interval time +100ppm x reading +0.4ns)

TRIGGER

Triggering Sensitivity Edge Triggering	: DC coupling : CH1 and CH2 : 1div (DC full bandwidth). EXT : 100mV (DC-25M) EXT/5 : 500mV (DC-25M) AC coupling : Same as the DC coupling when it is equal to or larger than 50Hz.
Triggering Lever Range	: Internal : ± 6 divisions from the screen center. EXT : ± 600 mV. EXT/5 : ± 3 V.
Triggering Level Accuracy (typical) which is applicable to the signal with rise and fall time equal to or longer than 20ns	: EXT : $\pm(40$ mV +6% of Set Value). EXT/5 : $\pm(200$ mV +6% of set value)
Trigger Displacement	: 655 divisions for pre-triggering and 4 divisions for post-triggering.
Make a 50% Level Setting (Typical)	: Operation with the input signal frequency equal to or larger than 50Hz. Internal : 2 divisions of peak-to-peak value.

Trigger Sensitivity (Video triggering & typical mode) : EXT : 400mV.
EXT/5 : 2V.

Signal System and find/field frequency (Video triggering mode) : Support the NTSC, PAL and SECAM broadcasting system of any field or line frequency.

MEASUREMENT

Cursor Measurement	: Voltage difference (V) and time difference (T) between cursor.
Auto Measurement	: Peak-to-peak value, average value, root mean square value, frequency and cycle.

STORAGE AND RECALLS

4 waveforms.

X-Y OPERATION

X-bandwidth - 25MHz.
Phase shift - 3° .

GENERAL

Display Type	: 8" TFT LCD adjustable back light.
Display Resolution	: 640 (horizontal) x 480 (vertical) pixels.
Display Color	: 260000 colors.
Power Supply	: 100 - 240V AC rms, 50Hz.
Power Consumption	: <15W.
Weight	: 1 Kg.
Dimension (mm)	: 350 (W) x 157 (H) x 120 (D).
Operating Temp.	: 0 to 40°C.
Storage Temp.	: -20 to +60°C.

STANDARD ACCESSORIES

1. 1:1 / 10:1 Passive Oscilloscope Probe, 1.2 meters long - T5100	-	2 Nos.
2. Serial Port Data Transmission USB Cable	-	1 No.
3. Mains Cord	-	1 No.
4. Instruction Manual (Soft Copy) and Software for PC communicator CD	-	1 No.

OPTIONAL ACCESSORIES

1. Li-ion Rechargeable Batteries - Option 1
2. RS232 Communication Cable - Option 2

WE PURSUE A POLICY OF CONTINUOUS DEVELOPMENT AND PRODUCT IMPROVEMENT. THUS THE SPECIFICATIONS IN THIS DOCUMENT AND THE LOCATION OF CONTROLS ON THE FRONT PANEL MAY BE CHANGED WITHOUT NOTICE.

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