

# Specifications – AL1010

## Vertical System

Sensitivity	: 2mV ~ 5V/DIV 13 step in 1-2-5 Sequence
Sensitivity Accuracy	: <3% (5 DIV at center of display)
Vernier Vertical	: Continuously Variable to 1/2.5 or less panel-indicated value
Frequency Bandwidth	: DC ~ 100MHz (2mV/DIV : DC~20MHz) (-3dB)
Rise Time	: 3.5ns (2mV/DIV : 17.5 ns)
Signal Delay Line	: Leading Edge can be monitored
Maximum Input Voltage	: 400V (DC + AC Peak) at 1 KHz or less
Input Impedance	: 1MΩ±2% / 25pF ±3pF
Input Coupling Mode	: AC, DC, GND
Vertical Mode	: CH1, CH2, DUAL, (CHOP/ALT), ADD, CH2 INV
Bandwidth	: Limited 20MHz
CMRR	: 50:1 or better at 50kHz; 10:1 or better at 20MHz

## Horizontal System

Horizontal Modes	: Main(A), ALT, DELAY (B)
Sweep Time Range A	: 50nS~0.5S/DIV, continuously variable (UNCAL)
Sweep Time Range B	: 50nS~0.5mS/DIV
Accuracy	: ±3% (+5% at x 10 MAG)
Sweep Magnification	: x 10 (Maximum sweep time 5nS/DIV)
Hold Off Time	: Variable
Delay Time	: 1ms~5s
Delay Time Jitter	: 1/20000 or less
Alternate Separation	: Variable

## Trigger

Trigger Mode	: AUTO, NORM,TV																		
Trigger Source	: CH1, CH2, LINE, EXT																		
Trigger Coupling	: AC, DC, HFR, LFR																		
Trigger Slope	: "+" or "-" polarity or TV sync polarity																		
Trigger Sensitivity	: <table border="1"> <thead> <tr> <th>Mode</th> <th>Frequency</th> <th>Int</th> </tr> </thead> <tbody> <tr> <td rowspan="3">AUTO</td> <td>30~100 Hz</td> <td>1.5 DIV</td> </tr> <tr> <td>100 Hz~20 MHz</td> <td>1 DIV</td> </tr> <tr> <td>20~100 MHz</td> <td>1.5 DIV</td> </tr> <tr> <td rowspan="2">NORMAL</td> <td>DC~20MHz</td> <td>0.35 DIV</td> </tr> <tr> <td>20~100 MHz</td> <td>1.5 DIV</td> </tr> <tr> <td>TV</td> <td>Sync. Signal</td> <td>1 DIV</td> </tr> </tbody> </table>	Mode	Frequency	Int	AUTO	30~100 Hz	1.5 DIV	100 Hz~20 MHz	1 DIV	20~100 MHz	1.5 DIV	NORMAL	DC~20MHz	0.35 DIV	20~100 MHz	1.5 DIV	TV	Sync. Signal	1 DIV
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TV Sync.	: TV-V, TV-H																		
MAX. Ext. Input Voltage	: 400V (DC+ AC Peak) at 1 KHz																		
Ext. Input Impedance	: 1M 0hm±5%, 25pF±6pF																		

## Cursor Readout Function

Cursor Measurement Function	: dV; dV%; dVdB; dT; dT%; 1/dT; dPHASE
Cursor Resolution	: 1/100 DIV
Effective Cursor Range	: vertical : +3 DIV, Horizontal : +4 DIV
Panel Setting	: Vertical : V/DIV, (CH1,CH2), UNCAL, : ALT/CHOP/ADD,INV, : Probe Factor, AC/DC/GND Horizontal : S/DIV (MTB, DTB) UNCAL, : x10MAG, Delay Time Trigger : Source, Coupling, Slope, : Level, TV-V, TV-H
Others	: X-Y, Lock, SAVE/RECALL MEM 0-9

## X-Y Operation

Mode	: X-Axis : Selectable CH1, CH2, EXT Y-Axis : Selectable CH1, CH2, CH1 and CH2
Sensitivity	: 2mV~5V/DIV±3%; EXT : 0.1V/DIV ±5%
X-Axis Bandwidth	: DCX~500kHz (-3dB)
Phase Error	: 3° or less at DC~50kHz

## Special Function

Time/DIV Auto Range	: Provided
Panel Setting Save & Recall	: 10 Locations
Panel Setup Lock	: Provided

## CRT

6-Inch Rectangular With Internal Graticule; 0%, 10%, 90%, and 100% markers. 8 x 10 DIV (1 DIV=1cm)	
Phosphor	: P31
Accelerating Potential	: Approx. 16 kV
Illumination	: Continuously Adjustable

## Intensity Modulation Input

Input Coupling	: DC
Sensitivity	: 5V or more
Maximum Input Voltage	: 30V (DC + Ac Peak) at 1kHz or less
Bandwidth	: DC ~ 5MHz

## Power Source

Ac100V / 120V / 230V ±10%, 50Hz/60Hz, Approx. 70VA (max)

## Temperature & Humidity

Operation Range	: 0°C ~ 80°C (32°F ~ 122°F), 85%RH; rated range for use 10°C ~ 35°C (50°F ~ 95°F), 85%RH
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## Accessories

Probes (10:1/1:1)x2
Instruction Manual x 1

## Weight

Approx. 8.2kg

## Dimensions

310(W) x 150(H) x 455(D) mm