Analog Oscilloscope

100MHz standard model with 10 sets panel settings storage
TOS-2100C

Features

- ✓ 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

Specifications

Vertical system	
Sensitivity	2mV~5V/DIV, 11 steps in 1-2-5 sequence
Accuracy	≤3%
Vernier sensitivity	Continuously variable to 1/2.5 or less of panel indicated value
Bandwidth (-3dB)	DC (AC 10Hz)~100MHz (2mV/DIV: DC~20MHz)
AC coupling	<10Hz (at 100kHz, 8DIV, frequency response -3dB)
Rise time	Approx. 3.5ns (2mV/DIV: Approx. 17.5ns)
Input impedance	Approx. 1MΩ//Approx. 25pF
DC balance shift	5mV~5V/DIV: ±0.5DIV
Vertical mode	CH1, CH2, DUAL (ALT/CHOP), ADD, CH2 INV
Chopping repetition frequency	Approx. 250kHz
Input coupling	AC, GND, DC
Max. Input voltage	400V peak-peak, AC frequency≤1kHz
Bandwidth limit	20MHz
Common mode rejection ratio	>50:1 at 50kHz sine wave (set CH1 and CH2 at same sensitivity)
Dynamic range	5DIV at 100MHz
CH2 INV BAL	Balanced point variation≤1DIV (referred to graticule center)
Signal delay	Leading edge can be monitored
Horizontal system	
Horizontal mode	MAIN (A), ALT, DELAY (B)
A (main) sweep time	50ns~0.5s/DIV, continuously variable (UNCAL)
B (delay) sweep time	50ns~50ms/DIV
Accuracy	±3%, X10MAG: ±5%
Sweep magnification	X10 (fastest sweep time 5ns/DIV)
Hold off time	Variable
Delay time	1us~5s
Delay jitter	Better than 1:20000
Alternate separation	Variable
Trigger system	
Trigger mode	AUTO, NORM, TV-V, TV-H
Trigger source	CH1, CH2, LINE, EXT
Trigger coupling	AC, DC, HFR, LFR
Trigger slope	“+” or “-”

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Trigger system						
Sensitivity	Mode	Auto		Norm		TV
	Frequency	10Hz~20MHz	20MHz~100MHz	DC~20MHz	20MHz~100MHz	Sync signal
	INT	0.35DIV	1.5DIV	0.35DIV	1.5DIV	1DIV
	EXT	50mVpp	150mVpp	50mVpp	150mVpp	200mVpp
TV sync		TV-V, TV-H				
Trigger level range		INT: 4DIV or more, EXT: ±0.4V or more				
External trigger input						
Input impedance		Approx. 1MΩ//Approx. 25pF				
Max. input voltage		400V (DC+AC peak), AC frequency≤1kHz				
X-Y operation						
Mode		X-axis: selectable CH1, CH2, EXT ; Y-axis: selectable CH1, CH2, CH1 and CH				
Sensitivity		2mV~5V/DIV±3%; EXT: 0.1V/DIV ±5%				
X-axis bandwidth		DC~500kHz (-3dB)				
Phase error		≤3° at DC~50kHz				
Trigger signal output						
Voltage		Approx. 25mV/DIV into 50Ω terminal				
Frequency response		DC~10MH				
Output impedance		Approx. 50Ω				
Calibration signal output						
Waveform		Positive-going square wave				
Frequency		Approx. 1kHz				
Duty ratio		<48:52				
Output voltage		2Vpp±2%				
Output impedance		Approx. 2kΩ				
Z-axis input						
Coupling		DC				
Bandwidth		DC~5MHz				
Sensitivity		5V or more				
Max. input voltage		30V (DC+AC peak), AC frequency≤1kHz				
Cursor readout						
Cursor measurement		ΔV, ΔV%, ΔVdB, ΔT, 1/ΔT, ΔT%, Δθ				
Cursor resolution		1/25DIV				
Effective cursor range		Vertical: ±3DIV; Horizontal: ±4DIV				
Panel setting		Vertical: V/DIV (CH1, CH2), UNCAL, ALT/CHOP/ADD, INV, Probe factor, AC/DC/GND Horizontal: S/DIV (MTB, DTB), UNCAL, X10 MAG, delay time, HO Trigger: source, coupling, slope, level, TV-V, TV-H Others: X-Y, LOCK, Save/recall memory 0-9				
Special function		Time base auto-range, Panel lock, 10 sets save & recall for panel settings				
CRT						
Display		6-inch rectangular with internal graticule; 0%, 10%, 90% and 100% markers; 8x10DIV (1DIV=1cm)				
Phosphor		P31				
Accelerating voltage		Approx. 16kV				
CRT illumination		Continuously adjustable				
General						
Power source		AC110V/220V±10%, 50/60Hz, Max. 65VA				
Accessories		Power cord x1, Operation manual x1, Probe x2				
Dimension (WxHxD)		310x150x455mm				
Weight		Approx. 8kg				

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