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<https://twintex.nt-rt.ru/> || ttw@nt-rt.ru

Analog Oscilloscope 100MHz

Product No : TOS-2100C



- ★ 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 memory for panel settings save & recall

Vertical system

Sensitivity	2mV~5V/DIV, 11 steps in 1-2-5 sequence
Sensitivity accuracy	≤3% (5DIV at the screen center)
Vernier sensitivity	Continuously variable to 1/2.5 or less of the panel-indicated value
Bandwidth (-3dB)	DC (AC 10Hz)~100MHz (2mV/DIV: DC~20MHz)
AC coupling	
Rise time	Approx. 3.5ns (2mV/DIV: Approx. 17.5ns)
Input impedance	Approx. 1MΩ±2%/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

Bandwidth limit	20MHz
Input coupling	AC, GND, DC
Max. Input voltage	400V (DC+AC peak), AC frequency≤1kHz
Common mode rejection ratio	50:1 or better at 50kHz
Dynamic range	5DIV at 100MHz
Polarity (INV)	CH2
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 base	50ns~0.5s/DIV, continuously variable (UNCAL)
B (delay) sweep time base	50ns~50ms/DIV
Sweep time base accuracy	±3%, X10 MAG: ±5%
Sweep magnification	X10 (Max. sweep time base: 5ns/DIV)
Hold off time	Variable
Delay time	1us~5s
Delay jitter	Better than 1:20000
Alternate separation	Variable

Triggersystem

Trigger mode	AUTO, NORM, TV-V, TV-H
Trigger level lock	Not provided
Trigger source	CH1, CH2, LINE, EXT

Triggersystem

Trigger coupling	AC, DC, HFR, LFR					
Polarity	“+” or “-” polarity					
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±5%///Approx. 25pF Max.input voltage: 400V (DC+AC peak), AC frequency≤1kHz					

X-Y mode		
Sensitivity	X-axis, Y-axis selectable X-axis: CH1, CH2, 2mV~5V/DIV, $\pm 3\%$ Y-axis: CH1, CH2, 2mV~5V/DIV, $\pm 3\%$ EXT: 0.1V/DIV, $\pm 5\%$	
X-axis bandwidth	DC~500kHz (-3dB)	
Phase error	$\leq 3^\circ$ at DC~50kHz	
Output signal		
Trigger signal	Voltage: Approx. 25mV/DIV into 50 Ω termination Frequency response: DC~10MHz; Output impedance: approx.50 Ω	
Calibration signal	Waveform	Positive-going square wave
	Frequency	1kHz $\pm 5\%$
	Duty ratio	<48:52
	Output voltage	2Vpp $\pm 2\%$
	Output impedance	Approx. 2k Ω
Z-axis input		
Coupling	DC	
Bandwidth	DC~5MHz	
Voltage	5V or more	
Max. input voltage	30V (DC+AC peak), AC frequency ≤ 1 kHz	
Cursor readout		
Cursor measurement	ΔV , $\Delta V\%$, ΔV_{dB} , ΔT , $1/\Delta T$, $\Delta T\%$, $\Delta\theta$	
Cursor resolution	1/25DIV	
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, 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/DIV auto range	Provided	
Panel lock	Provided	
Panel settings save & recall	10 sets memory	
CRT		
Display	6" rectangle, internal graticule 0%, 10%, 90% and 100% markers, 8x10DIV	

	(1DIV=1cm)
Phosphor	P31
Accelerating voltage	Approx. 16kV
CRT illumination	Adjustable at front panel
General	
Power source	AC110V/220V±10% selectable, 50/60Hz, Max. 65VA
Accessories	Power cord x1, Operation manual x1, Probe x2
Dimension	310x150x455mm
Weight	Approx. 8kg

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