

Instek 200 MHz Oscilloscope

Part No. 01OS6200

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FEATURES

- * 200MHz Bandwidth, Dual Channel, Delayed Sweep
- * Auto Set
- * Built-in 6 Digits Universal Counter
- * Cursor Readout with 7 Measurements
- * 10 Sets Memory for Front Panel Setting Save & Recall
- * TV-Line Selection (NTSC, PAL, SECAM)
- * Panel Setup Lock of Digital-Control Functions
- * Buzzer Alarm
- * LED Indicators
- * Trigger Signal Output
- * Z-axis Modulation Input
- * SMD Technology, High Stability and Reliability

GOS-6200 (200MHz)

SPECIFICATIONS

CRT	Type Accelerating Potential Illumination Z-axis input	6-inch rectangular type with internal graticule; 0%, 10%, 90% and 100% markers 8 x 10 div (1 div = 1 cm) 14 kV approx. Continuously adjustable Coupling : DC Sensitivity: 5V or more Maximum input voltage : 30V (DC + AC peak) at 1kHz or less Bandwidth : DC ~ 5 MHz																																						
VERTICAL SYSTEM	Sensitivity Sensitivity Accuracy Vernier Vertical Sensitivity Bandwidth(-3dB) Rise Time Signal Delay Max. Input Voltage Input Coupling Input Impedance Vertical Mode Bandwidth Limited Common-Mode Rejection Ratio Dynamic Range	2mV~5V/div, 11 step in 1-2-5 sequence $\leq 3\%$ (5div at the center of display) Continuously variable to 1/2.5 or less of panel-indicate value DC~200MHz (5mV/div:DC~150MHz) ; (2mV/div:DC~20MHz) 1.75ns (5mV/div:2.33ns) ; (2mV/div:17.5ns) Leading edge can be monitored 400V(DC+AC peak) at 1kHz or less AC, DC, GND 1M Ω \pm 2% // approx. 25pF CH1,CH2,DUAL(CHOP/ALT), ADD, CH2 INV. 20MHz 50:1 or better at 50kHz 8 div at 100MHz; 5div at 200MHz																																						
HORIZONTAL SYSTEM	Horizontal Modes A(main) Sweep Time B(delay) Sweep Time Accuracy Sweep Magnification Hold Off Time Delay Time Delay Jitter Alternate Separation	MAIN(A), ALT, DELAY(B) 20ns~0.5s/div, continuously variable (UNCAL) 20ns~50ms/div $\pm 3\%$ ($\pm 5\%$ at x 10 MAG) x 10 (maximum sweep time 2ns/div) Variable 1 μ s~5s Better than 1:20000 Variable																																						
TRIGGER	Trigger Modes Trigger Source Trigger Coupling Trigger Slope Trigger Sensitivity Trigger Level Range TV Triggering TV-Line Selection Max. External Input Voltage External Input Impedance	AUTO, NORM, TV CH1, CH2, LINE, EXT, EXT/10 AC, DC, HFR, LFR, NR "+" or "-" polarity or TVsync polarity <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Mode</th> <th>Frequency</th> <th>INT</th> <th>EXT</th> <th>EXT/10</th> </tr> </thead> <tbody> <tr> <td rowspan="2">AUTO</td> <td>10 Hz ~ 20 MHz</td> <td>0.35 div</td> <td>50 mV</td> <td>500 mV</td> </tr> <tr> <td>20 MHz ~ 200 MHz</td> <td>1.5 div</td> <td>150 mV</td> <td>1.5 V</td> </tr> <tr> <td rowspan="2">NORM</td> <td>DC ~ 20 MHz</td> <td>0.35 div</td> <td>50 mV</td> <td>500 mV</td> </tr> <tr> <td>20 MHz ~ 200 MHz</td> <td>1.5 div</td> <td>150 mV</td> <td>1.5 V</td> </tr> <tr> <td>TV</td> <td>sync signal</td> <td>1 div</td> <td>200 mVpp</td> <td>2 Vpp</td> </tr> </tbody> </table> INT: ± 4 div or more; EXT: ± 0.4 V or more; EXT/10: ± 4 V or more Mode : TV-V, TV-H, TV-LINE <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Standard</th> <th>Field 1</th> <th>Field 2</th> </tr> </thead> <tbody> <tr> <td>NTSC (525H)</td> <td>1H ~ 263H</td> <td>1H ~ 262H</td> </tr> <tr> <td>PAL (625H)</td> <td rowspan="2">1H ~ 313H</td> <td rowspan="2">1H ~ 312H</td> </tr> <tr> <td>SECAM (625H)</td> </tr> </tbody> </table> 400V(DC+AC peak) at 1kHz 1M Ω \pm 5% // approx. 25pF	Mode	Frequency	INT	EXT	EXT/10	AUTO	10 Hz ~ 20 MHz	0.35 div	50 mV	500 mV	20 MHz ~ 200 MHz	1.5 div	150 mV	1.5 V	NORM	DC ~ 20 MHz	0.35 div	50 mV	500 mV	20 MHz ~ 200 MHz	1.5 div	150 mV	1.5 V	TV	sync signal	1 div	200 mVpp	2 Vpp	Standard	Field 1	Field 2	NTSC (525H)	1H ~ 263H	1H ~ 262H	PAL (625H)	1H ~ 313H	1H ~ 312H	SECAM (625H)
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X-Y OPERATION	Mode Sensitivity Accuracy X-axis Bandwidth Phase Error	X-axis: selectable CH1, EXT, EXT/10 ; Y-axis: selectable CH1, CH2, CH1 and CH2 2mV~5V/div $\pm 3\%$; EXT : 0.1V/div $\pm 5\%$; EXT/10 : 1V/div $\pm 5\%$ DC~500kHz(-3dB) 3° or less from DC~50kHz																																						



GOS-6200(200MHz)

SPECIFICATIONS		
OUTPUT SIGNAL	Trigger Signal Output Calibrator Output	Voltage : approx. 25mV/div into 50Ω ; Frequency response : DC ~ 10MHz 1kHz square wave, 2Vpp ± 2%
CURSOR READOUT FUNCTION	Cursor Measurement Function Cursor Resolution Effective Cursor Range Panel Setting Display	ΔV, ΔV%, ΔVdB, ΔT, 1/ΔT, ΔT%, Δθ 1/100 div Vertical: ± 3div; Horizontal: ± 4 div Vertical: V/div(CH1, CH2), UNCAL, ALT/CHOP/ADD, INV, probe factor, AC/DC/GND Horizontal: s/div(MTB, DTB), UNCAL, x 10MAG, delay time, HO Trigger: source, coupling, slope, level, TV-V, TV-H Others: X-Y, lock, save/recall MEM 0-9
AUTO MEASUREMENT FUNCTION	Parameter Function Display Digits Frequency Range Accuracy Measuring Sensitivity	FREQ, PERIOD, ±WIDTH, ±DUTY (+ or - polarity selected by trigger slope) Max. 6-digits, decimal 50Hz ~ 200MHz 1kHz ~ 200MHz : ± 0.01%; 50Hz ~ 1kHz ± 0.05% > 2 DIV (Measuring source selected from CH1 and CH2 as synchronous signal sources)
SPECIAL FUNCTION	Auto Set Panel Setting Save & Recall Panel Setups Lock	Input Channel: CH1, CH2; Frequency Response 50Hz ~ 50MHz 10 sets Provided
POWER SOURCE		AC 100V/120V/230V ± 10% , 50/60Hz
ACCESSORIES		Instruction manual x 1, Power cord x 1, GLF-250 Probe (10:1/1:1) x 2
DIMENSIONS & WEIGHT		310(W) x 150(H) x 470(D) mm ; Approx. 9kg

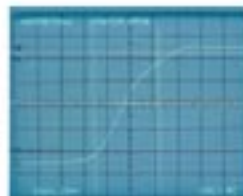
AUTO AND CURSOR MEASUREMENT FUNCTIONS



AUTO Mode : Frequency



AUTO Mode : Period

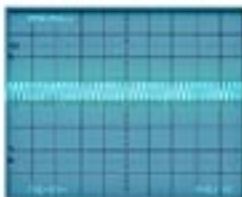


RISE Time (ΔT)



Voltage (ΔV)

AUTOSSET FUNCTION



Before AUTOSSET



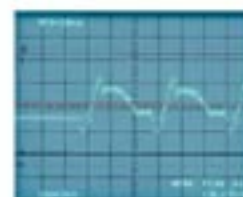
After AUTOSSET

Screen after unknown signal input. Optimum screen display after pressing a button.

TV FIELD/LINE SELECTOR



TV - H



TV - L