Cursor Readout Analog Oscilloscope

GOS-6200 (200MHz)

FEATURES :

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

SPECIFICATIONS

CRT	**Type**	6-inch rectangular type with internal graticule; 0%, 10%, 90% and 100% markers. 8 x 10 DIV (1 DIV = 1 cm)
	Phosphor	P31
	Accelerating Potential	14 kV approx.
	Illumination	Continuously adjustable
	Z-axis input	Coupling : DC Sensitivity: 5V or more Maximum input voltage : 30V (DC + AC peak) at 1kHz or less Bandwidth : DC ~ 5 MHz
VERTICAL SYSTEM	**Sensitivity**	2mV~5V/DIV, 11 step in 1-2-5 sequence
	Sensitivity Accuracy	≤3% (5DIV at the center of display)
	Vernier Vertical Sensitivity	Continuously variable to 1/2.5 or less of panel-indicate value
	Bandwidth(-3dB)	DC~200MHz(2mV/DIV:DC~20MHz)
	Rise Time	1.75ns (2mV/DIV:17.5ns)
	Signal Delay	Leading edge can be monitored
	Max. Input Voltage	400V(DC+AC_{peak}) at 1kHz or less
	Input Coupling	AC, DC, GND
	Input Impedance	1MW± 2% // approx. 25pF
	Vertical Mode	CH1,CH2,DUAL(CHOP/ALT), ADD, CH2 INV.
	Bandwidth Limited	20MHz
	Common-Mode Rejection Ratio	50:1 or better at 50kHz
	Dynamic Range	8 DIV at 100MHz; 5DIV at 200MHz
HORIZONTAL SYSTEM	**Horizontal Modes**	MAIN(A), ALT, DELAY(B)
	A(main) Sweep Time	20ns~0.5s/DIV, continuously variable (UNCAL)
	B(delay) Sweep Time	20ns~50ms/DIV
	Accuracy	±3% (±5% at x 10 MAG)
	Sweep Magnification	x 10 (maximum sweep time 2ns/DIV)
	Hold Off Time	Variable
	Delay Time	1μs~5s
	Delay Jitter	Better than 1:20000
	Alternate Separation	Variable
TRIGGER	**Trigger Modes**	AUTO, NORM, TV
	Trigger Source	CH1, CH2, LINE, EXT, EXT/10
	Trigger Coupling	AC, DC, HFR, LFR, NR
	Trigger Slope	"+" or "-" polarity or TVsync polarity
	Trigger Sensitivity	(see table below)
	Trigger Level Range	INT:±4DIV or more; EXT:±0.4V or more; EXT/10: ±4V or more
	TV Triggering	Mode : TV-V, TV-H, TV-LINE
	TV-Line Selection	(see table below)
	Max. External Input Voltage	400V(DC+AC $_{peak}$) at 1kHz
	External Input Impedance	1MW±5% // approx.25pF
X-Y OPERATION	**Mode**	X-axis: selectable CH1, EXT, EXT/10 ; Y-axis: selectable CH1, CH2, CH1 and CH2
	Sensitivity Accuracy	2mV~5V/DIV±3%;EXT : 0.1V/DIV ±5%; EXT/10 : 1V/DIV±5%
	X-axis Bandwidth	DC~500kHz(-3dB)
	Phase Error	3° or less from DC~50kHz

Trigger Sensitivity

Mode	Frequency	INT	EXT	EXT/10
AUTO	10 Hz ~ 20 MHz 20 MHz ~ 200 MHz	0.35 DIV 1.5 DIV	50 mV 150 mV	500 mV 1.5 V
NORM	DC ~ 20 MHz 20 MHz ~ 200 MHz	0.35 DIV 1.5 DIV	50 mV 150 mV	500 mV 1.5 V
TV	sync signal	1 DIV	200 mV_{pp}	2 V_{pp}

TV-Line Selection

Standard	Field 1	Field 2
NTSC (525H)	1H ~ 263H	1H ~ 262H
PAL (625H)	1H ~ 313H	1H ~ 312H
SECAM (625H)		

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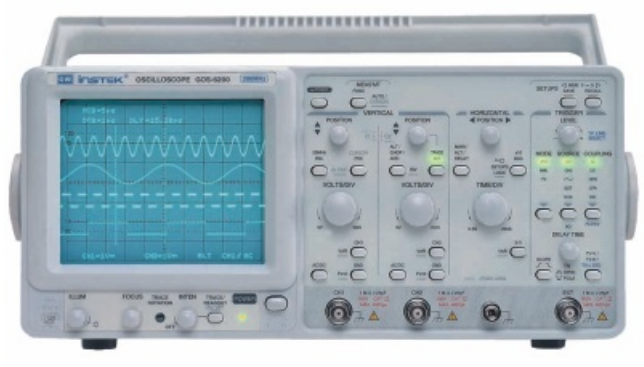
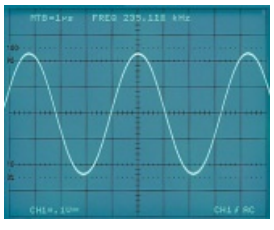


GOS-6200(200MHz)

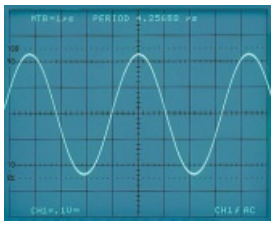
SPECIFICATIONS

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**	△V, △V%, △VdB, △T, 1/△T, △T%, △ θ 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		Power cord x 1; Instruction manual x 1; GLF-250 Probe (10:1/1:1) x 2
DIMENSIONS & WEIGHT		310(W) x 150(H) x 470(D) mm ; Approx. 9kg

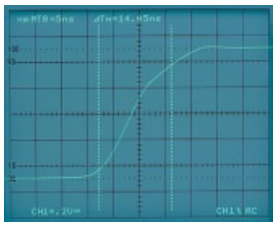
AUTO AND CURSOR MEASUREMENT FUNCTIONS



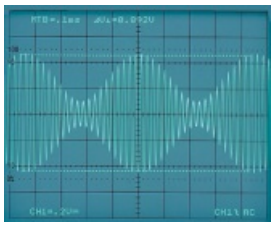
AUTO Mode : Frequency



AUTO Mode : Period

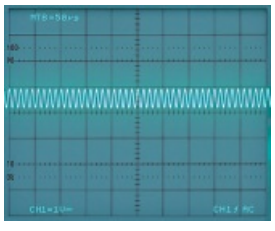


RISE Time (△T)



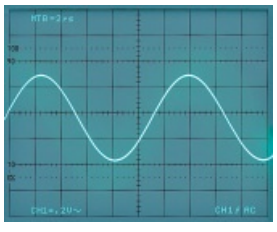
Voltage (△V)

AUTOSET FUNCTION



Before AUTOSET

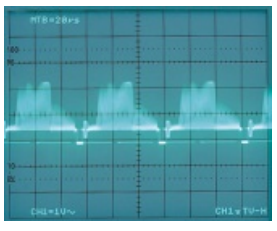
Screen after unknown signal input.



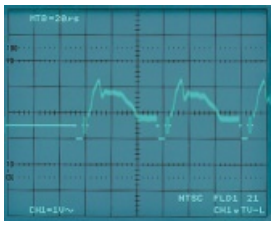
After AUTOSET

Optimum screen display after pressing a button.

TV FIELD/LINE SELECTOR



TV - H



TV - L