Cursor Readout Analog Oscilloscope

FEATURES :

*** 100MHz, Dual Channel, Delayed Sweep**
*** Built-in 6 Digit Universal Counter (GOS-6103C)**
*** 10 Sets Memory for Front Panel Setting Save & Recall (GOS-6103/GOS-6103C)**
*** Time Base Auto-range (GOS-6103/GOS-6103C)**
*** Cursor Readout with 7 Measurements**
*** Panel Setup Lock of Digital-Control Functions**
*** Buzzer Alarm**
*** LED Indicators**
*** TV Synchronization**
*** Trigger Signal Output**
*** Z-axis Modulation Input**
*** SMD Technology, High Stability and Reliability**

GOS-6112/6103/6103C (100 MHz)

(GOS-6103C Without CE Approved.)

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	16 kV approx. (GOS-6103/GOS-6103C), 12kV approx. (GOS-6112)
	Illumination	Continuously adjustable (GOS-6103/GOS-6103C)
	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~100MHz(2mV/DIV:DC~20MHz)
	Rise Time	3.5ns (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	1MΩ± 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 60MHz; 5DIV at 100MHz (GOS-6112) 8 DIV at 100MHz (GOS-6103/GOS-6103C)
HORIZONTAL SYSTEM	**Horizontal Modes**	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% (±5% at x 10 MAG)
	Sweep Magnification	x 10 (maximum sweep time 5nS/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
	Trigger Coupling	AC,DC,HFR,LFR
	Trigger Slope	"+" or "-" polarity or TVsync polarity
	Trigger Sensitivity	(see table below)
	TV sync	TV-V, TV-H
	Max. External Input Voltage	400V(DC+AC peak) at 1kHz
	External Input Impedance	1MΩ±5% // approx.25pF
X-Y OPERATION	**Mode**	X-axis: selectable CH1, CH2, EXT ; Y-axis: selectable CH1, CH2, CH1 and CH2
	Sensitivity Accuracy	2mV~5V/DIV±3% ; EXT : 0.1V/DIV± 5%
	X-axis Bandwidth	DC~500kHz(-3dB)
	Phase Error	3° or less from DC~50kHz
OUTPUT SIGNAL	**Trigger Signal Output**	Voltage: approx. 25mV/DIV into 50Ω; Frequency response : DC ~ 10MHz
	Calibrator Output	1kHz Squarewave, 2Vpp ± 2%

Mode	Frequency	INT	EXT
AUTO	10 Hz ~ 20 MHz 20 MHz ~ 100 MHz	0.35 DIV 1.5 DIV	50 mV 150 mV
NORM	DC ~ 20 MHz 20 MHz ~ 100 MHz	0.35 DIV 1.5 DIV	50 mV 150 mV
TV	sync signal	1 DIV	200 mV_{pp}

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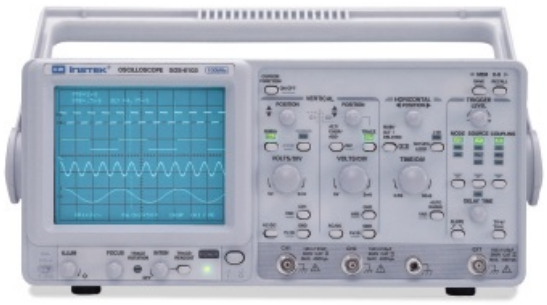


GOS-6112

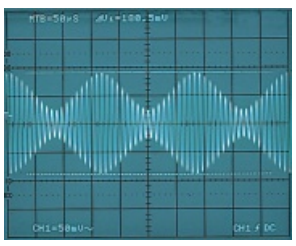
GOS-6103/6103C

SPECIFICATIONS		
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 (GOS-6103/GOS-6103C)
AUTO MEASUREMENT FUNCTION (GOS-6103C)	**Parameter Function** **Display Digits** **Frequency Range** **Accuracy** **Measuring Sensitivity**	FREQ, PERIOD, ± WIDTH, ± DUTY (+ or - polarity selected by trigger slope) Max. 6-digits, decimal 50Hz ~ 100MHz 1kHz ~ 100MHz : ± 0.01% ; 50Hz ~ 1kHz : ± 0.05% > 2 DIV (Measuring source selected from CH1 and CH2 as synchronous signal sources)
SPECIAL FUNCTION	**TIME/DIV Auto Range** **Panel Setting Save & Recall** **Panel Setups Lock**	Provided (GOS-6103/GOS-6103C) 10 sets (GOS-6103/GOS-6103C) Provided
POWER SOURCE		AC 100V/120V/230V ± 10% , 50/60Hz
ACCESSORIES		Power cord x 1; Instruction manual x 1; LF-210E Probe (10:1/1:1) x 2
DIMENSIONS & WEIGHT		310(W) x 150(H) x 455(D) mm ; Approx. 9kg

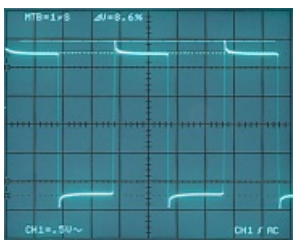
*** GOS-6103C Without CE Approved.**

CURSOR MEASUREMENT FUNCTIONS

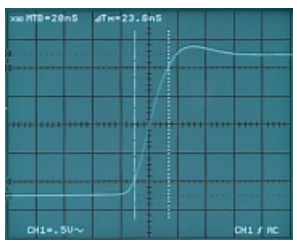
The unique easy-to-use cursor and numerical readouts make waveform observation and measurement easier, faster and more accurate.
The on screen cursors provide seven measurement functions (△V,△V%,△VdB,△T, 1/△T, △T%,△θ)



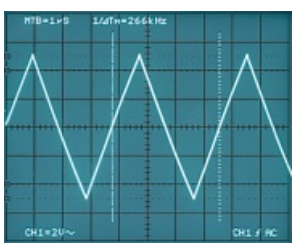
Voltage Measurement



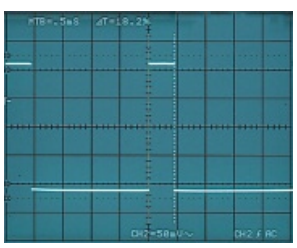
Voltage percentage Measurement



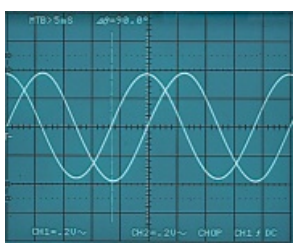
Time Measurement



Frequency Measurement



Time percentage Measurement



Phase Measurement