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Find the *Instek GTP-060A-4* at our website: *Click HERE*

Real Time/Digital Storage Oscilloscope



FEATURES

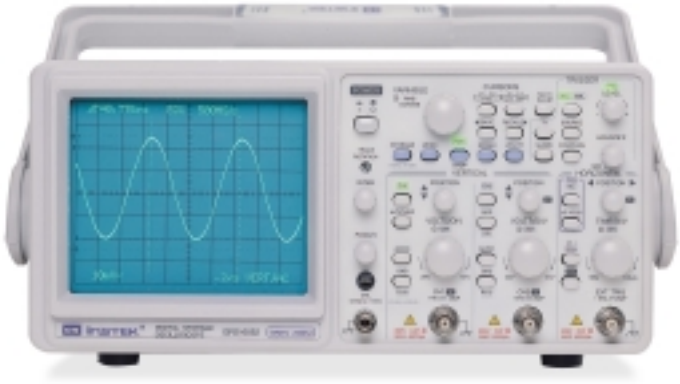
* GRS-6052A : DC~50MHz Bandwidth, 100MSa/s, 2kW/CH x 2
  GRS-6032A : DC~30MHz Bandwidth, 100MSa/s, 2kW/CH x 2
* Equivalent Time Sampling of 500MSa/s max.
* Acquire Mode : Peak Detect, Envelop, Persistence
* Pre-Trigger Function 0 ~ 10 div
* ROLL Mode to 100s/div
* Waveform SAVE/RECALL 10 sets (REF0~REF9)
* Averaging Function (2 ~ 256)
* Smoothing Function ON/OFF
* Max. Sweep Rate 10ns/div
* ALT-MAG Function (x5, x10, x20)
* Cursor Readout Function: △V,△T,1/△T
* Panel Setting SAVE/RECALL 10 sets (M0~M9)
* VERT Mode Triggering
* RS-232C Interface

GRS-6052A(50MHz)/GRS-6032A(30MHz)

SPECIFICATIONS

		GRS-6052A 50MHz, 100MSa/s, 500MSa/s (ETS)	GRS-6032A 30MHz, 100MSa/s, 500MSa/s (ETS)
CRT	Type and Acceleration ILLUM Z-axis Input	6-inch CRT , 10kV Front panel control Sensitivity : at least 5V Polarity : positive going input decrease intensity Max. input voltage:30V(DC+ACpk) Input Impedance :approx. 33kΩ	6-inch CRT , 2kV Front panel control Sensitivity : at least 5V Polarity:positive going input decrease intensity Max. input voltage:30V(DC+ACpk) Input Impedance :approx. 47kΩ
VERTICAL SYSTEM	Deflection Coefficient and Accuracy Variable Continuously Bandwidth (-3dB) Vertical Mode Chopper Frequency Sum or Difference Invert Input Impedance Input Coupling Input Voltage	1mV ~ 2mV/div ± 5%, 5mV ~ 20V/div ± 3%, 14 steps in 1-2-5 sequence 2.5 : 1 ~ min. 50V/div 1mV ~ 2mV/div: DC~7MHz 5mV ~ 20V/div: DC~50MHz CH1, CH2, DUAL (ALT or CHOP) Approx. 250kHz CH1+CH2, CH1-CH2 CH2 1MΩ ± 2%//approx. 25pF AC, DC, GND Max. 400V(DC+ACpk)	1mV ~ 2mV/div ± 5%, 5mV ~ 20V/div ± 3%, 14 steps in 1-2-5 sequence 2.5 : 1 ~ min. 50V/div 1mV ~ 20mV/div: DC~7MHz 5mV ~ 20V/div: DC~30MHz CH1, CH2, DUAL (ALT or CHOP) Approx. 250kHz CH1+CH2, CH1-CH2 CH2 1MΩ ± 2%//approx. 25pF AC, DC, GND Max. 400V(DC+ACpk)
HORIZONTAL SYSTEM	Sweep Time Variable Continuously Accuracy Sweep Magnification Max. Sweep Time ALT-MAG Function HOLD-OFF Time	0.2 μs/div ~ 0.5s/div, 20 steps 2.5 : 1 up to 1.25s/div (uncal.) ± 3%, ± 5% at x5/ x10MAG. ± 8% at x 20MAG x5, x10, x20 20ns/div (10ns/div uncal) Yes Variable	0.2 μs/div ~ 0.5s/div, 20 steps 2.5 : 1 up to 1.25s/DIV (uncal.) ± 3%,± 5% at x5/ x10MAG.± 8% at x 20MAG x5, x10, x20 50ns/div (10ns~40ns/div uncal) Yes Variable
TRIGGER	Trigger Mode Trigger Source Trigger Coupling Trigger Slope ALT Trigger Indicator Trigger LED TV Sync. Separator	AUTO, NORM, TV VERT, CH1, CH2, LINE, EXT AC, HFR, LFR "+" or " - " polarity Yes Yes TV-V "-" , TV-H " - "	AUTO, NORM, TV VERT, CH1, CH2, LINE, EXT AC, HFR, LFR "+" or " - " polarity Yes Yes TV-V "-" , TV-H " - "
	Trigger Sensitivity	GRS-6052A: 20Hz ~ 5MHz; 5MHz ~ 40MHz; 40MHz ~ 50MHz GRS-6032A: 20Hz ~ 2MHz; 2MHz ~ 20MHz; 20MHz ~ 30MHz CH1, CH2: 0.5 div; 1.5 div; 2.0 div VERT-MODE: 2.0 div; 3.0 div; 3.5 div EXT: 200mV; 800mV; 1V	
	External Trigger Input	TV sync. pulse more than 1 DIV or 200mV (EXT) Input impedance :Approx. 1MΩ//25pF (AC coupling) Max. input voltage :400V (DC + AC pk)	
X-Y OPERATION	Input Sensitivity Bandwidth X-Y Phase Shift	X-axis : CH1 ; Y-axis : CH2 1mV/div ~ 20V/div X-axis : DC ~ 500kHz (-3dB) <3° from DC ~ 50kHz	X-axis : CH1 ; Y-axis : CH2 1mV/div ~ 20V/div X-axis : DC ~ 500kHz (-3dB) <3° from DC ~ 50kHz
DIGITAL STORAGE	Acquisition Digitizer Max. Sampling Rate Storage Bandwidth Dynamic Range	8 bit ADC x 2 500MSa/s for equivalent time sampling 100MSa/s for normal sampling Single shot: DC ~ 25MHz Repetitive: DC ~50MHz ±5div	8 bit ADC x 2 500MSa/s for equivalent time sampling 100MSa/s for normal sampling Single shot: DC ~ 25MHz Repetitive: DC ~30MHz ±5div

Real Time/Digital Storage Oscilloscope

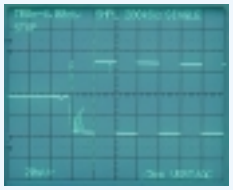


GRS-6052A(50MHz)/GRS-6032A(30MHz)

SPECIFICATIONS

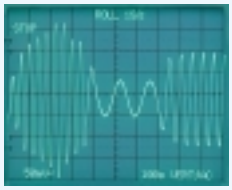
	Memory Length		
	Acquisition Memory	2k words/CH x 2, 1k words/CH(equivalent)	2k words/CH x 2, 1k words/CH(equivalent)
	Save REF Memory	1k words/CH x 10 with back-up memory (REF0~REF9)	1k words/CH x 10 with back-up memory (REF0~REF9)
	Display Memory	1k words/CH x 4 waveform(max.)	1k words/CH x 4 waveform(max.)
	Sweep Time	Equivalent: 0.2 μs/div ~ 0.5μ s/div Normal Sample: 1μs/div ~ 0.1s/div Roll: 0.2s/div ~ 100s/div	Equivalent: 0.2 μs/div ~ 0.5 μs/div Normal Sample: 1 μs/div ~ 0.1s/div Roll: 0.2s/div ~ 100s/div
	Sweep Magnification	x 5, x 10, x 20	x 5, x 10, x 20
	Max.Sweep Time	10ns/div	10ns/div
	MAG Interpolation	DOTS, LINEAR	DOTS, LINEAR
	ALT-MAG Function	Yes	Yes
	Acquire Mode	Sample, peak detect(>25ns), Envelop. Persist, Average(2~256)	Sample, peak detect(>25ns), Envelop. Persist, Average(2~256)
	Operation Mode	Auto, Norm, Single, Single-roll, Roll, X-Y, Run/Stop	Auto, Norm, Single, Single-roll, Roll, X-Y, Run/Stop
	Smoothing Function	Dot joint ON/OFF selectable	Dot joint ON/OFF selectable
	Pre-Trigger	Pre-trigger 0 ~10div in 0.02div steps	Pre-trigger 0 ~10DIV in 0.02div steps
	X-Y Operation	X-axis: CH1 Y-axis: CH2	X-axis: CH1 Y-axis: CH2
	Storage Bandwidth	DC~50MHz(-3dB)	DC~30MHz(-3dB)
	Display Resolution	H: 100points/div; V: 25points/div; X-Y: 25 x 25 points/div	H: 100points/DIV; V: 25points/div; X-Y: 25 x 25 points/div
	Waveform SAVE/RECALL	10 sets(REF0~REF9)	10 sets(REF0~REF9)
OPERATION CONTROL INTERFACE	**Panel Setting SAVE/RECALL**	10 sets(M0 ~M9)	10 sets(M0 ~M9)
	RS-232C	Yes	Yes
READOUT & CURSOR	**Cursor Measurement**	ΔV, ΔT, 1/ ΔT	ΔV, ΔT, 1/ ΔT
	Readout Intensity	Adjustable	Adjustable
OUTPUT SIGNAL	**CH1 Signal Output**	Voltage : approx. 20mV/div (with 50Ω terminated) ; Bandwidth : 50Hz ~ 5MHz	
	Calibrator Output	Voltage : 0.5V± 3% ; Frequency : approx. 1kHz, square wave	
INTERFACE		RS-232C	
POWER SOURCE		AC 100V/120V/230V± 10%, 50/60Hz	
ACCESSORIES		Instruction manual x 1, Power cord x 1, GLF-190C Probes (10:1/1:1) x 2	
DIMENSIONS & WEIGHT		275(W) x 130(H) x 370(D) mm; Approx. 8.5kg	

DIGITAL MODE FUNCTIONS



GRS-6000 Series provide Pre-Trigger function, which allows user to observe Pre-Trigger waveform up to 10 divisions ahead of the trigger point.

Pre-Trigger



The low-speed transient event of the input signal could be viewed easily under ROLL Mode. The waveform will roll on from right to the left to show the updated input signal all the time.

ROLL Mode



With ALT-MAG function, the user could expand the waveforms by 5, 10, or 20 times for a more detailed waveform observation. Both original waveforms and expanded waveforms could be shown on the screen at the same time.

ALT-MAG

ORDERING INFORMATION

GRS-6052A 50MHz Real Time/Digital Storage Oscilloscope
GRS-6032A 30MHz Real Time/Digital Storage Oscilloscope

Option
Opt. 01 : GTC-001 Instrument Cart, 450(W) x 430(D) mm
Opt. 02 : GTC-002 Instrument Cart, 330(W) x 430(D) mm

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