

Real Time/Digital Storage Oscilloscope



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

FEATURES :

- * GRS-6052A : DC~50MHz, 100MSa/s, 2kW/CH x 2
- * GRS-6032A : DC~30MHz, 100MSa/s, 2kW/CH x 2
- * Equivalent Time Sampling of 500MSa/s max.
- * Acquire Mode : Peak Detect, Envelop, Persistence
- * Waveform SAVE/RECALL 10 sets (REF0~REF9)
- * Pre-Trigger Function 0 ~ 10 div
- * ROLL Mode to 100s/div
- * ALT-MAG Function (x5, x10, x20)
- * Smoothing Function ON/OFF
- * Max. Sweep Rate 10ns/div
- * Cursor Readout Function: ΔV , ΔT , $1/\Delta T$
- * Panel Setting SAVE/RECALL 10 sets (M0~M9)
- * Averaging Function (2 ~ 256)
- * VERT Mode Triggering
- * TV Synchronization
- * CH1 Signal Output & Z-Axis Input
- * RS-232C Interface

SPECIFICATIONS

MODEL		GRS-6052A 50MHz, 100MSa/s, 500MSa/s (ETS)	GRS-6032A 30MHz, 100MSa/s, 500MSa/s (ETS)																																								
CRT	Type and Acceleration INTEN and FOCUS ILLUM Z-axis Input	6-inch CRT 150CTB31, 10kV Front panel control Front panel control Sensitivity : at least 5V(TTL) Polarity : positive going input decrease intensity Max. input voltage:30V(DC+ACpk) Input Impedance :approx. 33k Ω	6-inch CRT D14-363GY/150BTB31A, 2kV Front panel control Front panel control Sensitivity : at least 5V(TTL) Polarity:positive going input decrease intensity Max. input voltage:30V(DC+ACpk) Input Impedance :approx. 47k Ω																																								
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 \pm 5%, 5mV ~ 20V/div \pm 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 1M Ω \pm 2%/approx. 25pF AC, DC, GND Max. 400V(DC+ACpk)	1mV ~ 2mV/div \pm 5%, 5mV ~ 20V/div \pm 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 1M Ω \pm 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 μ s/div ~ 0.5s/div, 20 steps 2.5 : 1 up to 1.25s/div (uncal.) \pm 3%, \pm 5% at x5, x10MAG. \pm 8% at x 20MAG x5, x10, x20 20ns/div (10ns/div uncal) Yes Variable	0.2 μ s/div ~ 0.5s/div, 20 steps 2.5 : 1 up to 1.25s/DIV (uncal.) \pm 3%, \pm 5% at x5, x10MAG. \pm 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 Trigger Sensitivity	AUTO, NORM, TV VERT, CH1, CH2, LINE, EXT AC, HFR, LFR "+" or "-" polarity Yes Yes TV-V "-", TV-H "-" <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>GRS-6052A</td> <td>20Hz ~ 5MHz</td> <td>5MHz ~ 40MHz</td> <td>40MHz ~ 50MHz</td> </tr> <tr> <td>GRS-6032A</td> <td>20Hz ~ 2MHz</td> <td>2MHz ~ 20MHz</td> <td>20MHz ~ 30MHz</td> </tr> <tr> <td>CH1, CH2</td> <td>0.5 div</td> <td>1.5 div</td> <td>2.0 div</td> </tr> <tr> <td>VERT-MODE</td> <td>2.0 div</td> <td>3.0 div</td> <td>3.5 div</td> </tr> <tr> <td>EXT</td> <td>200mV</td> <td>800mV</td> <td>1V</td> </tr> </table>	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	AUTO, NORM, TV VERT, CH1, CH2, LINE, EXT AC, HFR, LFR "+" or "-" polarity Yes Yes TV-V "-", TV-H "-" <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>GRS-6052A</td> <td>20Hz ~ 5MHz</td> <td>5MHz ~ 40MHz</td> <td>40MHz ~ 50MHz</td> </tr> <tr> <td>GRS-6032A</td> <td>20Hz ~ 2MHz</td> <td>2MHz ~ 20MHz</td> <td>20MHz ~ 30MHz</td> </tr> <tr> <td>CH1, CH2</td> <td>0.5 div</td> <td>1.5 div</td> <td>2.0 div</td> </tr> <tr> <td>VERT-MODE</td> <td>2.0 div</td> <td>3.0 div</td> <td>3.5 div</td> </tr> <tr> <td>EXT</td> <td>200mV</td> <td>800mV</td> <td>1V</td> </tr> </table>	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
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	External Trigger Input	TV sync. pulse more than 1 DIV or 200mV (EXT) Input impedance :Approx. 1M Ω //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 $^\circ$ from DC ~ 50kHz	X-axis : CH1 ; Y-axis : CH2 1mV/div ~ 20V/div X-axis : DC ~ 500kHz (-3dB) <3 $^\circ$ 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 \pm 5div	8 bit ADC x 2 500MSa/s for equivalent time sampling 100MSa/s for normal sampling Single shot: DC ~ 25MHz Repetitive: DC ~30MHz \pm 5div																																								