

# Instek Realtime Storage Scope

Part Nos. 01OS6032 and 01OS6052

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**FEATURES :**

- \* GRS-6052: DC~50MHz, 20MSa/s, 2kW/CH x 2
- \* GRS-6032: DC~30MHz, 20MSa/s, 2kW/CH x 2
- \* Equivalent Time Sampling of 500MSa/s max.
- \* 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:  $\Delta V$ ,  $\Delta T$ ,  $1/\Delta T$
- \* 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

GRS-6052/6032(50,30MHz)

**SPECIFICATIONS**

MODEL		GRS-6052 50MHz, 20MSa/s, 500MSa/s (ETS)	GRS-6032 30MHz, 20MSa/s, 500MSa/s (ETS)																				
<b>CRT</b>	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. 47k $\Omega$	6-inch CRT D14-363GY, 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.33k $\Omega$																				
<b>VERTICAL SYSTEM</b>	Deflection Coefficient and Accuracy  Variable Continuously Frequency 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 $\Omega$ $\pm$ 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 $\Omega$ $\pm$ 2%/approx. 25pF AC, DC, GND Max. 400V(DC+ACpk)																				
<b>HORIZONTAL SYSTEM</b>	Sweep Time Variable Continuously Accuracy Sweep Magnification Max. Sweep Time ALT-MAG Function HOLD-OFF Time	0.2 $\mu$ 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 $\mu$ 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																				
<b>TRIGGER</b>	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 " - "	AUTO, NORM, TV VERT, CH1, CH2, LINE, EXT AC, HFR, LFR " + " or " - " polarity Yes Yes TV-V " . " , TV-H " - "																				
		<table border="1"> <tr> <td>GRS-6052</td> <td>20Hz ~ 5MHz</td> <td>5MHz ~ 40MHz</td> <td>40MHz ~ 50MHz</td> </tr> <tr> <td>GRS-6032</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-6052	20Hz ~ 5MHz	5MHz ~ 40MHz	40MHz ~ 50MHz	GRS-6032	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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EXT	200mV	800mV	1V																				
	External Trigger Input	TV sync. pulse more than 1 DIV or 200mV (EXT) Input impedance :Approx. 1M $\Omega$ //25pF (AC coupling) Max. input voltage :400V (DC + AC pk)																					
<b>X-Y OPERATION</b>	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																				
<b>DIGITAL STORAGE</b>	Acquisition Digitizer Max. Sampling Rate  Storage Bandwidth  Dynamic Range	8 bit ADC x 2 500MSa/s for equivalent time sampling 20MSa/s for normal sampling Single shot: DC ~ 5MHz Repetitive: DC ~ 50MHz $\pm$ 5DIV	8 bit ADC x 2 500MSa/s for equivalent time sampling 20MSa/s for normal sampling Single shot: DC ~ 5MHz Repetitive: DC ~ 30MHz $\pm$ 5DIV																				