



GOS-653G (50 MHz)



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## FEATURES

- \* 50MHz Bandwidth, Dual Channel
- \* Delayed Sweep(GOS-653G)
- \* Built-In Delay Line (GOS-653G)
- \* TV Synchronization
- \* CH1 Output
- \* Z Axis Modulation Input
- \* ALT Triggering Function
- \* Hold Off Function
- \* Trigger Level Lock Function

The 50MHz GOS-653G/652G Series are examples of classic analog oscilloscope design. The GOS-653G/652G cover a broad range of industry applications such as product design, assembly lines, repair & servicing as well as educational purposes for EE laboratories and class experiments. Coupled with various trigger functions (Auto, Norm, TV), complex waveforms can be easily triggered for use in diverse applications. The ALT Trigger function is able to observe signals from dual channels simultaneously. The Hold Off function helps stabilize sophisticated signals with repetitive frequencies or periods. Delayed sweep magnification (GOS-653G) can display a waveform and zoom in at the same time. For classic design and operation applicable to a wide range of applications, the GOS-653G/652G Series offers extra value.

## SPECIFICATIONS

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<b>CRT</b>	
Type	6-inch rectangular type with internal graticule 0%, 10%, 90% and 100% markers. 8 x 10 div (1div=1cm)
Accelerating Potential	12kV
Illumination	Continuously adjustable
Z-axis Input	Input Impedance: Approx. 5k $\Omega$ Sensitivity: Above 3Vp-p Bandwidth: DC ~ 5MHz
<b>VERTICAL SYSTEM</b>	
Sensitivity	5mV/div ~ 5V/div $\pm$ 3%, 1mV ~ 2mV/div $\pm$ 5%
Bandwidth	DC ~ 50MHz DC ~ 15MHz at 1 ~ 2mV/div
Rise Time	7ns (23.3ns for 1 ~ 2mV/div)
Signal Delay	leading edge can be monitored(GOS-653G only)
Input Impedance	Approx. 1M $\Omega$
Input Coupling	AC, DC, GND
Vertical Mode	CH1, CH2, DUAL, ADD, CH2 INV (Dual automatic switching ALT and CHOP)
<b>HORIZONTAL SYSTEM</b>	
A(main) Sweep Time	0.1 s ~ 0.5s/div $\pm$ 3% 100ns ~ 50ms/div $\pm$ 5% (x 10 MAG) 10ns ~ 50ns $\pm$ 8% (x 10 MAG)
B(delay) Sweep Time (GOS-653G only)	0.1 s ~ 0.5ms/div $\pm$ 3% 100ns ~ 50 s/div $\pm$ 5% (x 10 MAG), 10ns ~ 50ns/div $\pm$ 8% (x 10 MAG)
Delay Time	1 s ~ 5ms, $\pm$ 5% (GOS-653G only)
Delay Time Jitter	Better than 1 : 10000 (GOS-653G only)
<b>TRIGGER</b>	
Trigger Mode	AUTO, NORM, SINGLE
Trigger Source	CH1, CH2, ALT, LINE, EXT
Trigger Coupling	AC, DC, HF REJ, TV
Trigger Slope	"+" or "-"
<b>X-Y OPERATION</b>	
Sensitivity	5mV ~ 5V/div $\pm$ 4%
X-axis Bandwidth	DC ~ 2MHz
Phase Error	3° or less from DC ~ 100kHz (GOS-653G) 3° or less from DC ~ 50kHz (GOS-652G)
<b>OUTPUT SIGNAL</b>	
Trigger Signal Output	Voltage: approx. 50mV/div into 50 $\Omega$
Calibrator Output	1kHz Square wave, 2Vp-p $\pm$ 2%
<b>POWER SOURCE</b>	
AC 100V/120V/220V/230V $\pm$ 10%, 50Hz/60Hz	
<b>DIMENSIONS &amp; WEIGHT</b>	
310(W) x 150(H) x 455(D) mm; Approx. 8.2kg	

## ORDERING INFORMATION

**GOS-653G** 50MHz, 2-Channel, Oscilloscope with Delayed Sweep  
**GOS-652G** 50MHz, 2-Channel, Oscilloscope

### ACCESSORIES :

User manual x 1, Power cord x 1  
 Probe-GTP-060A-4 : 60MHz ( 10 : 1/1 : 1 ) Switchable Passive Probe (one per channel)

### OPTIONAL ACCESSORIES

**GTC-001** Instrument Cart, 450(W) x 430(D) mm (120V Input Socket)  
**GTC-002** Instrument Cart, 330(W) x 430(D) mm (120V Input Socket)  
**GTL-110** Test Lead, BNC-BNC Heads