



## I OS-5060A

### ■ Main Features



- ⌘ 60MHz, 2Ch, Dual trace, Delay sweep function
- ⌘ DC to 60MHz bandwidth, 2 channels, Dual trace
- ⌘ 6" rectangular CRT with internal graticule
- ⌘ Wide dynamic range even at high frequency
- ⌘ High deflection factor
- ⌘ Max. sweep time of 20ns/div.
- ⌘ Variable hold-off function
- ⌘ Level control allows superior triggering
- ⌘ TV sync. Separator circuit for stable TV signal observation
- ⌘ X-Y operation
- ⌘ Signal delay line installed

### ■ CRT

- Configuration and useful screen :  
6 inch rectangular screen with internal graticule, 8X10div.(1div = 1cm)  
marking for measurement of rise time, 2mm subdivisions along the central axis.
- Acceleration potential : +10kv approx.(ref. Cathode)
- Phosphor : P31
- Focusing : provided
- Trace rotation : provided
- Intensity control : provided

### ■ Z-AXIS INPUT(INTENSITY MODULATION)

- Input signal : positive going signal decreases +5Vp-p or more signal cases  
intensity noticeable modulation at normal intensity setting
- Bandwidth : DC to 2MHz(-3dB)
- Coupling : DC
- Input impedance : 20k $\Omega$  - 30k $\Omega$  typical
- Maximum input voltage : 30V(DC + peak AC)

### ■ VERTICAL DEFLECTION

- DC coupled(-3dB) : DC to 60MHz normal / DC to 7MHz magnified
- AC coupled(-3dB) : 10Hz to 60MHz normal / 10Hz to 7MHz magnified
- Modes : CH1, CH2, ADD, DUAL(CHOP : Time/div. switch from 0.2s to 5ms,  
ALT : Time/div. switch from 2ms to 1 $\mu$ s)
- Deflection factor (normal) : 5mV/div. to 5V/div. in 10 calibrated steps of 1-2-5  
sequence. Continuously variable between steps at least 1:2.5 X 5.

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<p>■ <b>HORIZONTAL DEFLECTION</b></p>	<ul style="list-style-type: none"> <li>- Deflection factor (5MAG) : 1mV/div. to 1V/div. in 10 calibrated steps.</li> <li>- Accuracy : normal <math>\pm 3\%</math>, magnified : <math>\pm 5\%</math></li> <li>- Input impedance : approx. 1M<math>\Omega</math> in parallel with 25pF</li> <li>- Maximum input voltage : direct 250V (DC + peak AC)</li> <li>- Input coupling : AC, GND, DC</li> <li>- Rise time : 5.8ns or less (23ns or less in 5MAG)</li> <li>- CH1 output : 20mV/div. into 50<math>\Omega</math> / DC to 10MHz(-3dB)</li> <li>- Polarity inversion : CH2 only</li> <li>- Signal delay : delay cable installed</li> </ul>
<p>■ <b>TRIGGER SYSTEM</b></p>	<ul style="list-style-type: none"> <li>- Sweep mode : A, A int B, B, B triggered, X-Y</li> <li>- Time base A : 0.1<math>\mu</math>s/div. to 0.2s/div. in 20 calibrated steps of 1-2-5 sequence uncalibrated continuous control between steps at least 1:2.5</li> <li>- Hold-off time on time base A : variable with the hold-off control</li> <li>- Time base B : 0.1<math>\mu</math>s/div. to 10<math>\mu</math>s/div. in 7 calibrated steps of 1-2-5 sequence</li> <li>- Delay sweep on time base B : 1div. or less / 10 div. or more</li> <li>- Delay time jitter on time base B : better than 1:20000</li> <li>- Sweep magnification : 10 times(maximum sweep rate : 20ns/div.)</li> <li>- Accuracy : <math>\pm 3\%</math>, <math>\pm 5\%</math>(0.1<math>\mu</math>s~50<math>\mu</math>s) / additional error for magnifier : <math>\pm 2\%</math></li> </ul>
<p>■ <b>X-Y OPERATION</b></p>	<ul style="list-style-type: none"> <li>- Modes : AUTO, NORM, TV-V, TV-H</li> <li>- Source : CH1, CH2, LINE, EXT</li> <li>- Coupling : AC</li> <li>- Slope : + or -</li> <li>- Sensitivity and frequency in AUTO, NORM 20HZ - 2MHZ : 0.5div. in INT / 0.15Vp-p in EXT</li> <li>- Sensitivity and frequency in AUTO, NORM 2HZ - 60MHZ : 1.5div. in INT / 0.3Vp-p in EXT</li> <li>- TV-V, TV-H : at least 1div. or 1.0Vp-p</li> <li>- External trigger input impedance : 1M<math>\Omega</math> in parallel with approx. 30pF</li> <li>- Maximum input voltage : 250V (DC + AC peak)</li> </ul>
<p>■ <b>CALIBRATOR</b></p>	<ul style="list-style-type: none"> <li>- Sensitivity : same as vertical deflection for both X-axis(CH1) except accuracy <math>\pm 5\%</math> in X-axis</li> <li>- X-axis bandwidth : DC to 500kHz (-3dB)</li> <li>- X-Y phase difference : <math>\pm 3^\circ</math> or less as DC to 50kHz</li> </ul>
<p>■ <b>POWER SUPPLY</b></p>	<ul style="list-style-type: none"> <li>- Probe adjustment : approx. 1kHz frequency, 0.5V(<math>\pm 3\%</math>) square wave with 50% duty ratio</li> </ul> <ul style="list-style-type: none"> <li>- Line voltage range : 100V(90-110V) with 250V 2A fuse, 120V(108-132V) with 250V 2A fuse, 220V(198-242V) with 250V 1A fuse or 230V(216-250V) with 250V 1A fuse</li> <li>- Line frequency : 50/60Hz</li> <li>- Power consumption : approx. 45W</li> </ul>
<p>■ <b>PHYSICAL CHARACTERISTICS</b></p>	<ul style="list-style-type: none"> <li>- Weight : 6.0kg</li> <li>- Dimension : 320mm(W) X 140mm(H) X 430mm(L)</li> </ul>
<p>■ <b>OTHERS</b></p>	<ul style="list-style-type: none"> <li>- Accessories including : Operation manual, Spare fuse, Power cord</li> <li>- Optional accessories (sold separately) : Probe</li> </ul>

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