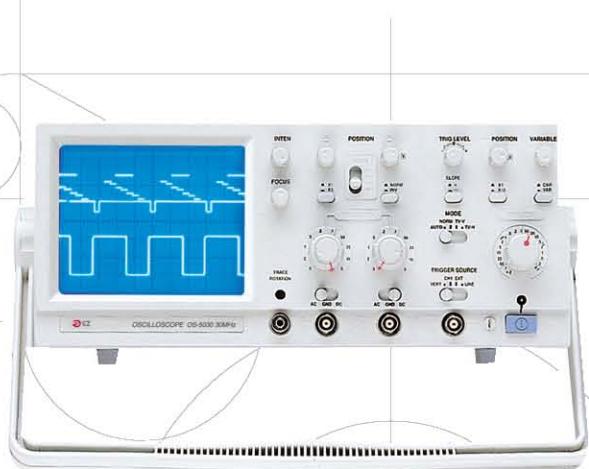
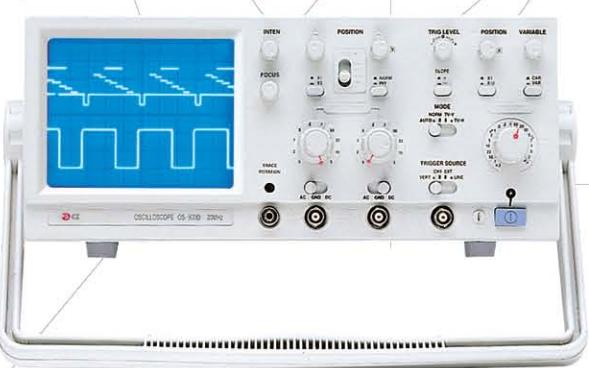


# OS-5030, OS-5020, OS-5020G



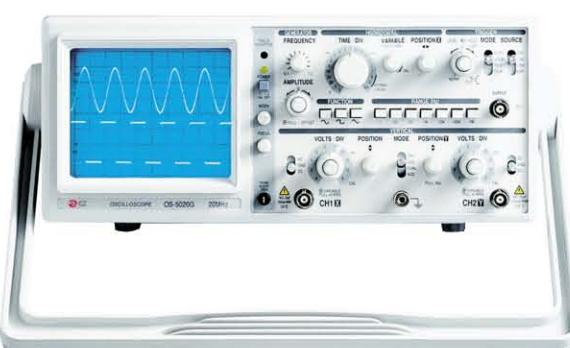
## OS-5030 30MHz 2ch dual trace

- DC to 30MHz BandWith, 2CH - dual trace
- 6" Rectangular CRT with internal graticule
- Sensitivity 1mV / div
- ALT. triggering function(Vert Mode)
- CH2 Polarity inversion switch
- High sensitivity X - Y mode
- Sweep magnification(X10)
- TV sync. separator circuit for stable TV signal observation
- 400V maximum. input voltage



## OS-5020 20MHz 2ch dual trace

- DC to 20MHz BandWith, 2CH - dual trace
- 6" Rectangular CRT with internal graticule
- Sensitivity 1mV / div
- ALT. triggering function(Vert Mode)
- CH2 Polarity inversion switch
- High sensitivity X - Y mode
- Sweep magnification(X10)
- TV sync. separator circuit for stable TV signal observation
- 400V maximum. input voltage



## OS-5020G 200MHz 2ch dual trace Built-in 1MHz function generator

- DC to 20MHz, 2CH - dual trace
- Built - in 1MHz function generator with TTL output
- CH2 polarity inversion switch
- High sensitivity X - Y mode
- Vertical deflection magnification, X5
- Sensitivity : 1mV / div
- Variable hold - off for observation of wave forms with complex periods
- Employment of TV sync. separator circuit allows the instrument to observe TV signals stably
- Sweep magnification, X5

# Specifications

SPEC	MODEL	OS-5030	OS-5020	OS-5020G															
CRT	Configuration and Useful Screen	6-inch rectangular screen with internal graticule : 8 × 10Div (1 Div = 1cm), marking for measurement of rise time, 2mm subdivisions along the central axis.																	
	Accelerating Potential	+1.9kV approx.(ref. cathode)																	
	Phosphor	P31																	
	Focussing	Possible																	
	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 at normal intensity settings.																	
	Bandwidth	DC to 2MHz(-3dB)																	
	Coupling	DC																	
	Input Impedance	20kΩ - 30kΩ typical																	
	Maximum Input Voltage	30V (DC+peak AC)																	
VERTICAL DEFLECTION	BandWidth(-3dB)	DC coupled	DC to 30MHz normal / DC to 10MHz magnified(CH1 only)	DC to 20MHz normal / DC to 10MHz magnified(CH1 only)	DC to 20MHz normal (×1)DC to 7MHz magnified (×5)														
		AC coupled	10Hz to 30MHz normal / 10Hz to 10MHz magnified(CH1 only)	10Hz to 20MHz normal / 10Hz to 10MHz magnified(CH1 only)	10Hz to 20MHz normal (×1)10Hz to 7MHz magnified (×5)														
	Modes	CH1, CH2, ADD, DUAL, (CHOP, Time/Div switch-0.2s to 1ms, ALT, Time / Div switch-0.5ms to 0.2μs)																	
	Deflection Factor	5mV/Div to 20V / Div in 12 calibrated steps of a 1-2-5 sequence. Continuously variable between steps at least 1.2.5 × 5																	
	Accuracy	normal : ±3%, magnified : ±5%(CH1 only)																	
	Input Impedance	approx : 1MΩ in parallel with 30pF																	
	Maximum input Voltage	Direct : 400V(DC+peak AC)																	
	Input Coupling	AC - GND - AC																	
	Rise Time	12ns or less (35ns or less : ×5 MAG)		17.5ns or less (35ns or less : ×5 MAG)	17.5ns or less (50ns or less : ×5MAG)														
	CH1 OUT	25mV/Div into 50Ω: 10Hz to 10MHz (-3dB)																	
HORIZONTAL DEFLECTION	Polarity Inversion	CH2 only																	
	Display Modes	normal, X-Y, X10, Variable		X1, X10, X-Y															
	Time Base A	0.2μs / Div to 0.2s / Div in 19 calibrated steps of 1-2-5 sequence uncalibrated continuous control between steps at least 1.2.5																	
	Hold-off Time																		
	Sweep Magnification	10 times (maximum sweep rate: 20ns /Div) Note: 50ns / 20ns / Div, ±10%																	
TRIGGER SYSTEM	Accuracy	±3%(0°C to 35°C), 5% (0°C~10°C ~35~40°C) additional error for magnifier ±2%																	
	Modes	Auto, Norm, TV-V, TV-H																	
	Source	VERT(Dual), ALT(CH1, CH2, LINE, EXT)																	
	Coupling	AC																	
	Slope	+or-																	
	Sensitivity and Frequency	<table border="1"> <tr> <td></td> <td>20Hz - 2MHz (VERT)</td> <td>2MHz - 20MHz (VERT)</td> <td>20MHz - 30MHz(VERT)</td> </tr> <tr> <td>INT</td> <td>0.5Div(2Div)</td> <td>1.5Div(3Div)</td> <td>2.5Div(4Div)</td> </tr> <tr> <td>EXT</td> <td>0.2Vp-p</td> <td>0.6Vp-p</td> <td>1.0Vp-p</td> </tr> </table>					20Hz - 2MHz (VERT)	2MHz - 20MHz (VERT)	20MHz - 30MHz(VERT)	INT	0.5Div(2Div)	1.5Div(3Div)	2.5Div(4Div)	EXT	0.2Vp-p	0.6Vp-p	1.0Vp-p		
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20Hz - 2MHz (VERT)	2MHz - 20MHz (VERT)																		
0.5Div	1.5Div																		
0.2Vp-p	0.8Vp-p																		
TV-V, TV-H	at least 1 Div or 1.0Vp-p																		
External Trigger Input impedance	1MΩ ±10%																		
Maximum Input Voltage	400V(DC + AC peak)																		
X-Y OPERATION	Sensitivity	same as vertical deflection for both, X-axis(CH1) and Y-axis(CH2) (except for the following : Accuracy, ±5%(X-axis))																	
	X - axis Bandwidth	DC to 500kHz(-3dB)																	
	X - Y Phase Difference	3° or less (at DC to 50kHz)																	
CALIBRATOR	Probe Adjustment	Approx, 1kHz frequency(±20%), 0.5V(±10%) square wave duty ratio: 40-60%																	
FUNCTION GENERATOR	Frequency Range																		
	Output Waveform																		
	Frequency Stability																		
POWER SUPPLY	Line Voltage Range	<table border="1"> <tr> <td>Voltage Range</td> <td colspan="2">FUSE(250V)</td> </tr> <tr> <td>UL198G</td> <td>IEC127</td> <td></td> </tr> <tr> <td>115(98-125V)/AC</td> <td>1.25A</td> <td>1.25A</td> </tr> <tr> <td>230V(198-250V)/AC</td> <td>0.63A</td> <td>0.63A</td> </tr> </table>			Voltage Range	FUSE(250V)		UL198G	IEC127		115(98-125V)/AC	1.25A	1.25A	230V(198-250V)/AC	0.63A	0.63A	Voltage Range		
Voltage Range	FUSE(250V)																		
UL198G	IEC127																		
115(98-125V)/AC	1.25A	1.25A																	
230V(198-250V)/AC	0.63A	0.63A																	
Line Frequency	50/60Hz																		
Power Consumption	approx. 45W																		
PHYSICAL CHARACTERISTICS	Weight	7.8kg																	
	Size	310mm(W) × 132mm(H) × 410mm(L)																	
OTHERS	Accessories Supplied	Operator's manual 1, Spare fuse2, Power cord1, Probe(option)2																	