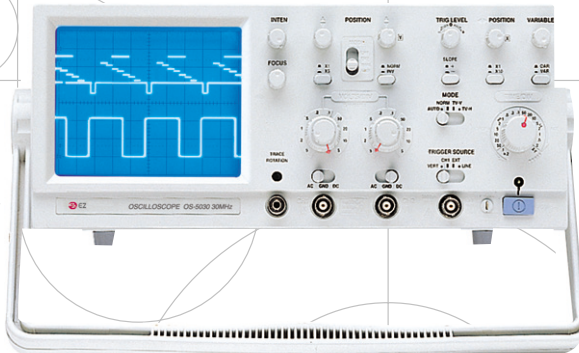


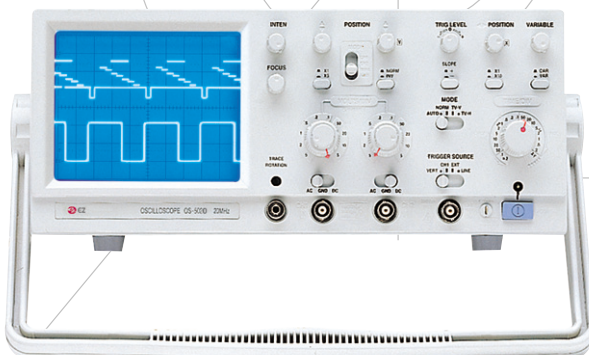
# OS-5030, OS-5020, OS-5020G

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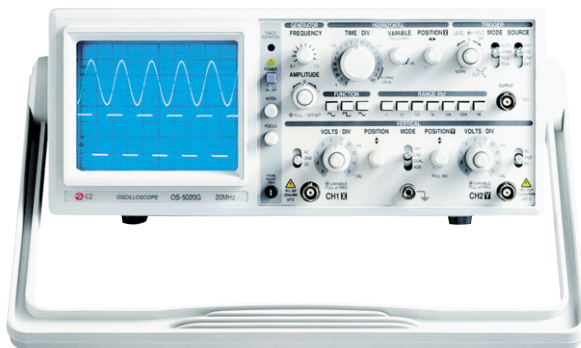
## OS-5030 30MHz 2ch dual trace

- 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

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# Specifications

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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 20MHz(-3dB)				
	Coupling	DC				
	Input Impedance	20k Ω - 30k Ω 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)			CH1, CH2, ADD, DUAL, (CHOP, Time / Div switch-0.2s to 5ms, ALT;Time / Div switch-2ms 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			5mV/Div to 5V/Div in 10 calibrated steps of or 1-2-5 sequence. Continuously variable between steps at least 1:2.5 × 5	
		5MAG:1mV/Div to 4V/Div in 12 calibrated steps.(CH1 only)			MAG:1mV / Div to 1V/Div in 10 calibrated steps.	
	Accuracy	normal : ±3%, magnified : ±5%(CH1 only)			normal : ±3%, magnified : ±5%	
	Input Impedance	approx : 1M Ω in parallel with 30pF			approx : 1M Ω in parallel with 25pF	
	Maximum input Voltage	Direct : 400V(DC+peak AC)			Direct : 250V(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)	17.5ns or less (50ns or less : ×5MAG)	
	CH1 OUT	25mV/Div into 50 Ω: 10Hz to 10MHz (-3dB)			25mV / Div into 50 Ω: DC to 10MHz (-3dB)	
	Polarity Inversion	CH2 only				
	HORIZONTAL DEFLECTION	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		Variable with the hold-off control				
Sweep Magnification		10 times (maximum sweep rate: 20ns /Div) Note: 50ns / 20ns / Div( ±10%)			10 times (maximum sweep rate: 20ns / Div) Note: 50ms / Div off A Time base are uncalibrated	
Accuracy		±3%(0°C to 35°C), 5% (0°C ~10°C ~ 35~40°C) additional error for magnifier ±2%			±3%, 5% (0°C to 40°C) additional error for magnifier ±2%	
TRIGGER SYSTEM	Modes	Auto, Norm, TV-V, TV-H				
	Source	VERT(Dual, ALT)CH1, CH2, LINE, EXT			CH1, CH2, LINE, EXT	
	Coupling	AC				
	Slope	+or -				
	Sensitivity and Frequency AUTO, NORM	20Hz - 2MHz (VERT)	2MHz - 20MHz (VERT)	20MHz - 30MHz(VERT)	20Hz - 2MHz (VERT)	2MHz - 20MHz (VERT)
		INT 0.5Div(2Div)	1.5Div(3Div)	2.5Div(4Div)	0.5Div(2Div)	1.5Div(3Div)
	TV-V, TV-H	at least 1 Div or 1.0Vp-p				
External Trigger Input impedance	1M Ω ±10%			1M Ω in parallel with approx.25pF		
Maximum Input Voltage	400V(DC + AC peak)			250V(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%			Approx, 1kHz frequency 0.5Vp-p( ±3%) square wave duty ratio:50%	
FUNCTION GENETATOR	Frequency Range				0.1Hz to 1MHz(7 range)	
	Output Waveform				sine, triangle, square, TTL pulse	
	Frequency Stability				±0.5%(1/10/100/1K/10K/100K range) ±1%(1M range) 15 minutes later after power on	
POWER SUPPLY	Line Voltage Range	Voltage Range		FUSE(250V)		
				UL198G	IEC127	
		115(98-125V)/AC	230V(198-250V)/AC	1.25A	1.25A	0.63A
	Line Frequency	50/60Hz				
Power Consumption	approx. 45W			Approx. 50W		
PHYSICAL CHARACTERISTICS	Weight	7.8kg			7.4kg	
	Size	316mm(W) × 132mm(H) × 410mm(L)			320mm(W) × 140mm(H) × 430mm(L)	
OTHERS	Accessories Supplied	Operator's manual 1, Spare fuse2, Power cord1, Probe(option)2				