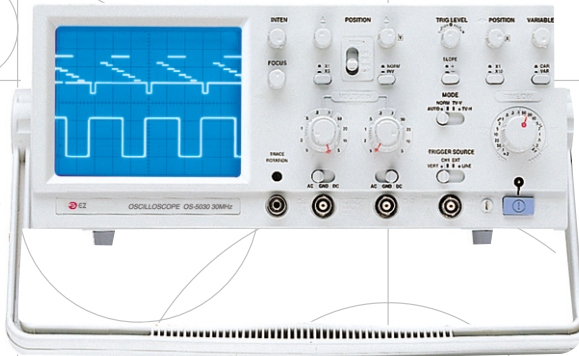
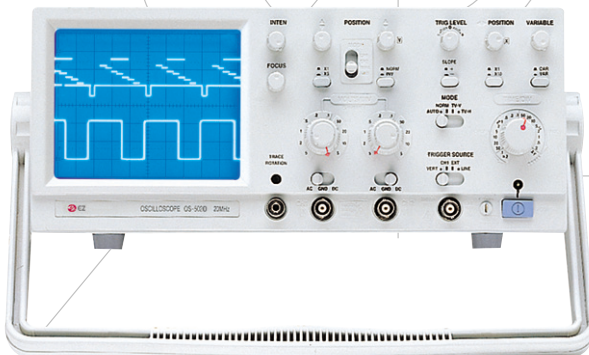


OS-5030, OS-5020, OS-5020G



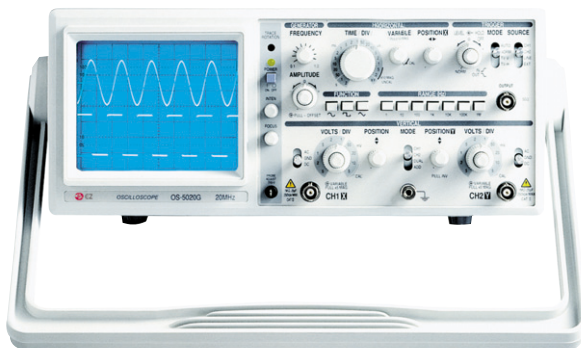
OS-5030 30MHz 2ch dual trace

- 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		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)																													
	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		0.2 μs / 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%)																																
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)																												
		EXT 0.2Vp-p	0.6Vp-p	1.0Vp-p	0.2Vp-p	0.8Vp-p																												
	TV-V, TV-H		at least 1 Div or 1.0Vp-p																															
External Trigger Input impedance		1M Ω ±10%		1M Ωin 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		<table><tr><td rowspan="3">Voltage Range</td><td colspan="2">FUSE(250V)</td></tr><tr><td>UL198G</td><td>IEC127</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	<table><tr><td rowspan="3">Voltage Range</td><td colspan="2">FUSE(250V)</td></tr><tr><td>UL198G</td><td>IEC127</td></tr><tr><td>100V(90-110V)/AC</td><td>2A</td><td>F2A</td></tr><tr><td>120V(108-132V)/AC</td><td></td><td></td></tr><tr><td>220V(198-242V)/AC</td><td>1A</td><td>F1A</td></tr><tr><td>230V(207-250V)/AC</td><td></td><td></td></tr></table>		Voltage Range	FUSE(250V)		UL198G	IEC127	100V(90-110V)/AC	2A	F2A	120V(108-132V)/AC			220V(198-242V)/AC	1A	F1A	230V(207-250V)/AC		
	Voltage Range	FUSE(250V)																																
		UL198G	IEC127																															
		115(98-125V)/AC	1.25A	1.25A																														
230V(198-250V)/AC	0.63A	0.63A																																
Voltage Range	FUSE(250V)																																	
	UL198G	IEC127																																
	100V(90-110V)/AC	2A	F2A																															
120V(108-132V)/AC																																		
220V(198-242V)/AC	1A	F1A																																
230V(207-250V)/AC																																		
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																															