

SPEC\MODEL		OS-9020	OS-5100	OS-8100A
CRT	Configuration and Useful Screen	6-inch rectangular screen with internal graticule:8X10div (1div=1cm)		
	Acceleration Potential	+1.9Kv approx (Ref. Cathode)	+10.5Kv approx (Ref. Cathode)	+19Kv approx
	Prosporphor	P31(Standard)		
	Focusing	Possible		
	Trace Rotation	Provided		
	Intensity Control	Provided		
Z-AXIS INPUT (INTENSITY MODULATION)	Input Signal	Positive going signal decreases intensity +5Vp-p or more signal cases noticeable modulation at normal intensity settings		
	Bandwidth	DC-2MHz(-3dB)	DC-3.5MHz(-3dB)	
	Coupling	DC		
	Input Impedence	20k Ω -30k Ω	25k Ω	15k Ω
	Maximum Input Voltage	30V(DC+peak AC)	20V(DC+peak AV)	
VERTICAL DEFLECTION (CH1, CH2)	Bandwidth	DC(10Hz) to 20MHz normal(CH1 only) DC(10MHz) to 10MHz magnified(CH1 only)	DC(10Hz) to 100MHz. DC(10Hz) to 20MHz(2mV Range)	DC(10Hz) to 100MHz. DC(10Hz) to 10MHz(x5 Mag on)
	Model	CH1, CH2, ADD, DUAL(CHOP:Time div switch 0.2s to 5ms, ALT:Time/div switch 2ms to 0.2us)	CH1, CH2, ADD, ALT, CHOP	CH1, CH2, CH3, ADD, ALT, CHOP
	Deflection Factor	5mV/div to 5V in 10 calibrated steps of a 1-2-5 sequence. Continuously variable between steps at least 1:2.5(x5 Mag:1mV/div in 10 clairbrted steps)	2mV/div to 5V/div in 11 calibrated steps of 1-2-5 sequence	5mV/div to 5V/div 1mV/div to 1V/div (x5 Mag on) in 10 calibrated steps of 1-2-5 sequence
	Accuracy	Normal: \pm 3% Magnified: \pm 5%	\pm 3%	
	Input Imepedence	Approx. 1M Ω in parallel with 25pF		
	Input Coupling	DC-GND-AC	DC-GND-AC	DC-GND-AC
	Rise Time	17.5ns or less(35ns or less: x5)	3.5ns or less	3.5ns or less(35ns or less: x5Mag on)
	CH1 Out	25mV/div \pm 20% into 50 Ω :20Hz to 10MHz(-3dB)-AC coupling	DC to 30MHz(-3dB)	20mV/div into 50 Ω :DC to 10MHz(-3dB)
	Polarity Inversion	CH2 Only		

	Signal Delay Time	delay cable supplied			
	Maximum Input Voltage	Direct:250V(DC+peak AC), with probe: refer to prove specification	250(DC+peak AC) or (400Vp-p at 1KHz or less)		
VERTICAL DEFLECTION(CH3 FOR OS-8100A ONLY)	Deflection Factor			0.1V/div to 1V/div	
	Bandwidth(-3dB)			DC(10Hz) to 70MHz	
	Rise Time			5ns or less	
	Accuracy			±5%	
	Input Impedence			1M Ω	
	Maximum Input Voltage			250V(DC+peak AC)	
HORIZONTAL DEFLECTION	Sweep Mode	A, X-Y	A, A INT B, B, B TRIG'D, X-Y	A, ALT, B, B TRIG'D, X-Y	
	Time Base A	0.2 μ s/div to 0.2s/div in 19 calibrated steps of 1-2-5 sequence uncalibrated continuous control between steps at least 1:2.5	0.1 μ s/div to 0.2s/div in 20 calibrated steps of 1-2-5 sequence	20ns/div to 0.5s/div in 23 calibrated steps of 1-2-5 sequence	
	Hold off Time	Variable with hold-off control			
	Time Base B		0.1 μ s/div to 10 μ s/div in 7 calibrated steps of 1-2-5 sequence	2ns/div to 0.5s/div in 23 calibrated steps of 1-2-5 sequence	
	Delay sweep position	1 div or less to 10div or more			
	Delay Time Jitter	better than 20,000:1			
	Sweep Magnification	10 times(maximum sweep rate:20ns/div)	10 times(maximum sweep rate:10ns/div)	10 times(maximum sweep rate:2ns/div)	
	Accuracy	±3%, ±5%(o°C to 40°C), additional error for magnifier ±2% 50nS/div, 20nS/div(X 10 position)±10%	±3%, (additional error for magnifier:2%)	±3%, (±5%: X 10 Mag On)	
TRIGGER SYSTEM	Modes	Auto, Norm, TV-V, TH-H			
	Source	INT(CH1, CH2, Vert mode), line, ext	CH1, CH2, line, ext	CH1, CH2, CH3(ext), line	
	Coupling	AC	AC	AC, HF-REJ, DC, TV-V, TV-H	
	Slope	+ or -			
	Sensitivity and frequency Auto, Norm		20Hz-2MHz	2MHz-30MHz	
		INT	0.5(2.0)div	2.0(3.0)div	
		EXT	0.2Vp-p	0.8Vp-p	
		()vert mode			
		DC to 10MHz	10MHz-100MHz		
INT	0.5div	1.5div			
EXT	0.1Vp-p	0.3Vp-p			
Vert	1.5div	3.0div			
		DC to 10MHz	10MHz-100MHz		
INT	0.3div	1.0div			
EXT	0.5Vp-p	0.15Vp-p			
TV-V, TV-H	at least 1 div or 1.0Vp-p				

	Maximum Input Voltage		250V(DC+peak AC)	300V(DC+peak AC)						
X-Y OPERATION	X-Y Phase Difference	3° or less(at DC to 50kHz)	3° or less(at DC to 100kHz)	3° or less(at DC to 2MHz)						
	Sensitivity	same as vertical deflection for both X-axis (CH1) and Y-axis(CH2)								
	X-axis Bandwidth	DC to 500kHz(-3dB)	DC to 2MHz(-3dB)							
CALIBRATOR	Probe Adjustment	1kHz(±20%)frequency, 0.5V(±10%) square wave, duty ratio:40-60%	1KHz square wave, 0.5Vp-p ±1%, duty ratio:50%							
POWER SUPPLY	Line Voltage Range	<table border="1"> <tr> <td>Voltage Range</td> <td>Fuse</td> </tr> <tr> <td>00(90-110)/AC</td> <td>2A250V</td> </tr> <tr> <td>120(108-132V)/AC</td> <td>2A250V</td> </tr> </table>			Voltage Range	Fuse	00(90-110)/AC	2A250V	120(108-132V)/AC	2A250V
		Voltage Range	Fuse							
	00(90-110)/AC	2A250V								
	120(108-132V)/AC	2A250V								
Line Frequency	50/60Hz									
	Power Consumption	approx. 35W	approx. 55W	approx. 60W						
PHYSICAL CHARACTERISTIC	Weight	7.5kg	8.5kg	10kg						
	size	320mm(W) x 140mm(H) x 430mm(D)		330mm(W) x 165mm(H) X 420mm(D)						
OTHERS	Accessories Supplied	Operator's manual 1 Spare fuse 2 Power cord 1 Probe(option) 2								