

SPEC\MODEL			OS-5100RA	OS-5100RB
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	
	Accelerating Potential		+11.5kV approx.(Ref. Cathode)	
	Phosphor		P31(standard)	
	Focussing		Possible (with auto-focus correction circuit)	
	Trace Rotation		Provided	
	Scale Illumination		Variable	
	Intensity Control		Provided	
Z-AXIS INPUT (INTENSITY MODULATION)	Input Signal		Positive going signal decreases intensity +5Vp-p or more signal causes noticeable modulation at normal intensity settings	
	Bandwidth		DC to 2MHz(-3dB)	
	Coupling		DC	
	Input Impedance		20k $\Omega$ -30k $\Omega$ typical	
	Maximum Input Voltage		30V (DC+peak AC)	
VERTICAL DEFLECTION	Bandwidth(-3dB)	DC coupled	DC to 100MHz (2mV/DIV : DC to 50MHz)	
		AC coupled	10Hz to 100MHz (2mV/DIV : 10Hz to 50MHz)	
	Modes		CH1, CH2, CH3, ADD, DUAL, CHOP, ALT, CH2 INV, QUAD	CH1, CH2, DUAL, ADD, ALT, CHOP, CH2 INV
	Deflection Factor		2mV/div to 5V/div in 11 calibrated steps of a 1-2-5 sequence. (For OS-5100RA:CH3,CH4:0.1V/DIV. 0.5V) Continuously variable between steps at least 1:2.5	
	Accuracy		$\pm 3\%$	
	Input Impedance		1M $\Omega$ in parallel with 25pF	
	Maximum Input Voltage		Direct: 400V(DC+peak AC), with probe: refer to probe specification	
	Input Coupling		DC-GND-AC	
	Rise Time		3.5ns or less(2mV/DIV: 7ns or less)	
	CH1 Out		50mV/div into 50 $\Omega$ : DC to 20MHz(-3dB)	
	Polarity Inversion		CH2 Only	
	Signal Delay		delay cable supplied	
	Display Modes		A,ALT,B,B TRIG'D,X-Y	
	Time Base A		0.05 $\mu$ s/div to 0.5s/div in 22 calibrated steps. 1-2-5 sequence. Uncalibrated continuous control between steps at least 1:2.5	

HORIZONTAL DEFLECTION	Hold-off Time	variable with the holdoff control													
	Time Base B	0.05μs/div to 50μs/div in 19 calibrated steps 1-2-5 sequence													
	Delayed Sweep Position adj.	1 div or less-10 div or more													
	Delay Time Jitter	better than 1:10,000													
	Sweep Magnification	10 times(maximum sweep rate: 5ns/div)													
	Accuracy	±3%, ±5% (0°C to 40&degC), additional error for magnifier ±2%													
TRIGGER SYSTEM	Modes	AUTO, NORM, TV,SINGLE													
	Source	LINE, VERT,CH1, CH2, CH3, CH4	LINE, VERT, CH1, CH2												
	Coupling	AC,DC,HF REJ,LF REJ,TV-V,TV-H													
	Slope	+ or -													
	Sensitivity and Frequency AUTO(30Hz or more), NORM	<table><tr><td></td><td>20Hz to 2MHz</td><td>2MHz-20MHz</td></tr><tr><td>INT</td><td>0.5div</td><td>1.5div</td></tr><tr><td>EXT</td><td>0.1Vp-p</td><td>0.3Vp-p</td></tr><tr><td>VERT</td><td>1.5div</td><td>3.0div</td></tr></table>			20Hz to 2MHz	2MHz-20MHz	INT	0.5div	1.5div	EXT	0.1Vp-p	0.3Vp-p	VERT	1.5div	3.0div
		20Hz to 2MHz	2MHz-20MHz												
	INT	0.5div	1.5div												
	EXT	0.1Vp-p	0.3Vp-p												
VERT	1.5div	3.0div													
TV-V, TV-H	at least 1div or 1.0Vp-p														
External Trigger Input Impedance(OS-1500RA,CH3 or CH4)	1MΩ (in parallel with approx. 25pF)														
Max. Input Voltage	400V(DC+peak AC)														
X-Y OPERATION	X-axis	(same as CH1 except for the following) Deflection factor: same as that of CH1/Accuracy:±6%/ Frequency response:DC to 2MHz(-3dB)													
	Y-axis	same as CH2													
	X-Y Phase Defference	3° or less (at DC to 100kHz)													
READOUT FUNCTION	Cursor Readout Function	ΔV,ΔT, 1/ΔT													
	Auto Setup	O	O												
	Frequency Counter Display	O(only on Autosetup)	O												
	Panel Setting Displays	AC/DC/GND, V-MODE, CH2 Invert, VOLTS/DIV, X10MAG, H-DSP MODE, TIME/DIV, TRG COUPLING, TRG SOURCE													
	Resolution	1/25 div													
CALIBRATOR	Probe Adjustment	approx. 1kHz, frequency, 0.5V(±2%) square wave, duty ratio:~50%													
POWER SUPPLY	Line Voltage	90~250VAC(fuse:1A 250V)													
	Line Frequency	48/440Hz													
	Power Consumption	Max. 50W													
PHYSICAL	Weight	8kg													

CHARACTERISTICS	Size	328mm(W) x 153mm(H) x 392mm(D)
ENVIRONMENTAL CHARACTERISTICS	Temperature	Temperature range for rated operation : +10&degC to +35&degC(+50&degF to +95&degF) Max. ambient operating temperature: 0&degC to 40&degC(+32&degF to +104&degF) Max. storage temperature: -20&degC to +70&degC (-4&degF+158&degF)
	Humidity	Range for rated operation: 45% to 85% RH/Max. Ambient operating humidity : 35% to 90% RH
OTHERS	Accessories supplied	operator's manual 1 Power cord 1 Spare fuse 2 Test probe(option)2