

OS-5100, OS-5060A, OS-5040A

The OS-5000 series are well designed with frequency BandWidth from 40MHz to 100MHz to satisfy both higher quality and performance and lower cost requirements in the field of school, industry, service shop and experimental support of hobbyists.

All of the series are featuring with 6-inch rectangular CRT with internal graticule 8×10 div(1div=1cm) and TV signal synchronization function, etc. Featuring with a delayed sweep enable improved observation of any desired, portions of the signal displayed with the main time base



OS-5100 100MHz 2CH dual trace

- 6" large size high luminance CRT
- · Wider than specified frequency response
- Signal delay with delay line useful for observation of signal start point
- ALT. Triggering function(Vert Mode)
- Auto focusing according to the change of intensity
- Drift compensation circuit employed in vertical amplifier for low drift
- Jitterless and high trigger sensitivity
- TV sync. separation and hold-off circuit useful in video signal observation



OS-5060A 60MHz 2CH dual trace

- 6" lager size, high luminance CRT
- · Wide dynamic range even at high frequencies
- · High deflection factor
- Max. sweep time of 10ns / div
- · Variable hold off function
- Delay sweep function
- · Level control allows superior triggering
- TV synch. circuit
- X -Y operation
- Signal delay line
- Scale illumination



OS-5040A 40MHz 2CH dual trace

- 6" large size high luminance CRT
- · Wide dynamic range even at high frequencies
- High deflection factor
- Max. sweep time of 20ns / div
- Variable hold off function
- Delay sweep function
- Level control allows superior triggering
- TV synch. circuit
- X Y operation
- Signal delay line
- Scale Illumination



Specifications

PEC	MODEL	O\$-5100	OS-5060A	O\$-5040A
	Configuration and Useful Screen	6-inch rectangular with intenal graticule : 8 ×10div(10Div=1cm), marking for measurement of rise time, 2mm subdivisions along the central axis.		
CRT	Accelerating Potential	+10.5kv approx.(ref. cathode)	+10kv approx.(ref. cathode)	+12kv approx.
	Phosphor	., , ,	P31(standard)	
	Focussing	Possible		
	Trace Rotation	Provided		
	Intensity Control	Provided		
Z-AXIS INPUT (INTENSITY	Input Signal	Positive going signal decreases+5Vp-p or more signal cases noticeable modulation at normal intensity settings.		
	Bandwidth	DC - 3.5MHz(-3dB) DC to 2MHz(-3dB)		
	Coupling	DC		
MODULATION)	Input Impedance	25 <i>Q</i>	20k Q-30k Q typical	20k <i>Q</i> -30k <i>Q</i>
	Maximum Input Voltage	20V(DC+peak AC)	30V(DC+peak AC)	30V(DC+peak AC)
VERTICAL DEFLECTION	BandWidth(-3dB)	DC(10Hz) to 100MHz DC(10Hz) to 20MHz(2mV Range)	DC(10Hz) to 60MHz DC(10Hz) to 20MHz(×5 Mag on)	DC(10Hz) to 40MHz DC(10Hz) to 7MHz(×5 Mag on)
	Modes	CH1, CH2, ADD, ALT, CHOP	CH1, CH2, ADD(CHOP: Time / Div switch -0.2s to 5ms, ALT: Time/Div 2ms to 0.1 μs)	CH1, CH2, ADD, DUAL(CHOP: Time / Div 0.2s to 5ms, ALT: Time/Div 2ms to 0.2,
	Deflection Factor	2mV/Div to 5V/.Div to 11 calibrated steps of 1-2-5 sequence		to 1mV/Div(×5 Mag on) teps of 1-2-5 sequence
	Accuracy	±3%	±3%(±5%	$\% \times$ 5 mag on)
	Input Impedance	Approx. 1 M ϱ in parallel with 25pF		
	Maximum input Voltage	Direct : 250V(DC+peak AC)		
	Input Coupling	AC-GND-DC		
	Rise Time	3.5ns or less(17.5ns or less: 2mV/div)	5.8ns or less(23ns or less: 5 MAG)	8.8ns or less(50ns or less : 5 MAG)
	CH1 OUT	20mV/Div into 50 Q: 50Hz to 30MHz(-3dB)	20mV/Div into 50 Q:	DC to 10MHz(-3dB)
	Polarity Inversion	CH2 Only		
HORIZONTAL DEFLECTION	Display Modes	A,A int B,B TRIG' D,X-Y		
	Time Base A	0.1 μ S/Div to 0.2s/Div in 0.2 μ S/Div to 20s/Div in 19 calibrated 20 calibrated steps of 1-2-5 sequence steps of 1-2-5 sequence		
	Hold-off Time	Variable with hold-off control		
	Time Base B	0.2 هـ/Div to 10 هـ/Div in 7 calibrated steps of 1-2-5 sequence 0.2 هـ/Div to 20 هـ/Div in 7 calibrated steps of 1-2-5 sequence 7 calibrated steps of 1-2-5 sequence		
	Delay Sweep Position	1Div or less - 10Div or more		
	Delay Time Jitter	better than 1:20000		
	Sweep Magnification	10 time(Max Sweep	Rate : 10ns/Div)	10times(Max Sweep Rate : 20ns/D
	Accuracy	±3%(additional error for magnifier : 2%)		
	Modes	Auto, Norm, TV-V, TV-H		
TRIGGER System	Source	CH1, CH2, LINE, EXT		
	Coupling	AC		
	Slope	+ or -		
	Occasión de condition de la constantion de la co	30Hz to 10MHz 10Hz - 100MHz	20Hz - 2MHz 2MHz - 60MHz	20Hz - 2MHz 2MHz - 40MH
	Sensitivity and Frequency AUTO, NORM	INT 0.48Div 1.5Div	INT 0.5Div 1.5Div	INT 0.5Div 1.5Div
	AOTO, NOTIW	EXT 0.2 Vp - p 0.6 Vp - p	EXT 0.15Vp-p 0.3 Vp-p	EXT 0.2 Vp - p 0.8 Vp - p
	TV-V, TV-H		at least 1Div or 1.0Vp-p	
	External Trigger Input impedance	1M ${\cal Q}$ in parallel with apporx. 22pF	1M $\mathcal Q$ in parallel wit	h apporox 30pF
	Maximum Input Voltage	250V(DC+AC peak)		
X-Y OPERATION	Sensitivity	same as vertical deflection for both, X-axis(CH1)and Y-axis(CH2)		
	X-axis Bandwidth	DC to 2MHz	DC to 500KHz(-	3dB)
	X - Y Phase Difference	3° or less(at DC to 100kHz)	3° or less(at DC to 5	50kHz)
CALIBRATOR	Probe Adjustment	approx	, 1kHz Square wave, 0.5Vp-p $\pm 3\%$, duty r	atio: 50%
POWER SUPPLY	Line Voltage Range		Voltage Range Fuse(250V) 100(90-110V)AC 2A 250V 120(108-132V)AC 2A 250V 220(198-242V)AC 1A 250V 230(207-250V)AC 1A 250V	
	Line Frequency		50 / 60Hz	
	Power Consumption	approx. 55W	approx. 50W	approx. 40W
PHYSICAL	Weight	8.5kg	7.7kg	7.2kg
	Size	o.o.ng		, .Ling
CHARACTERISTICS	SIZE	320mm(W) ×140mm(H) ×430mm(L) Operator's manual1, Spare fuse 2 Power cord 1, probe(option)2		