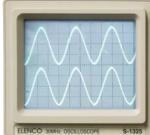
## **ANALOG OSCILLOSCOPES**



## 30MHz Model S-1330

2-Channel - Delayed Sweep Component Tester, Beam Find, Dual Time Base





## 30MHz Model S-1325

2-Channel - Oscilloscope

## **Features**

- Dual or single trace operation
- Calibrated 20-step time base with x10 magnifier
- AUTO/NORM triggered sweep operation with AC, TV-H, TV-V and line coupling.
- 1mV/DIV sensitivity
- Z-modulation (S-1330 only)
- Y (CH 2) output (S-1330 only)
- Dust cover included
- 2 free x1, x10 probes

FREE DUST COVER & PROBES

1005 Chow

ELENCO 30MHz OSCILLOSCOPE S-1	325	NH NH		S-	1325 SI	hown				
Specifications										
Vertical Amplifiers (CH 1 and CH 2)		Horizontal Amplifier (continued)		Delayed Sweep (S-1330 only) (continued)				Component Tester (S-1330 only)		
Sensitivity: 5mV/div - 5V/div (x1 mode).	(vE mode)	Bandwidth: DC - 1MHz (-3dE	В).	Accuracy: ±3%				Test voltage: Max. 6Vrms (open circuit) Test current: Max. 11mA (shorted)		
1mV/div - 1V/div (6MHz, -3dB) (x5 mode). Attenuator: 1-2-5 sequence, 10-step attenuator,		X-Y phase difference: Approximately 3° at 50kHz.		Sweep magnification: 10X, <u>+</u> 10%, extend sweep speed up to 10ns/div.			10ns/div	Test frequency: Line frequency Components: Capacitor, inductor, diode, transistor, zener, etc.		
plus vernier control.		Sweep System		<b>Delay time position:</b> Variable control to locate				CH 2 Output (S-1330 only)		
Rise time: About 14ns.		Sweep display mode: Main, Mix, Delay (S-1330 only).		desirable waveform for extending.				Output level: 100mV/div (no load) 50mV/div (50 $\Omega$ load)		
Over shoot: Less than 5%. Input impedance: $1M\Omega \pm 2\%$ , $25pF \pm 10pF$ .		Hold off time: 5:1 continuously variable.		Trigger				Bandwidth: 20Hz - 30MHz (-3dB)		
Max. input voltage: 400V (DC + AC peak).		Main Sweep		Trigger coupling: AUTO, NORM, TV-V, TV-H				Other Specifications		
Operating modes: CH 1, CH 2, DUAL (ALT or				Trigger source: CH 1, CH 2, LINE, EXT				CRT: Type: Rectangular with internal graticule. Adjustable graticule illumination (S-1330 only).		
CHOP) and ADD. Chop frequency: Approximately 500kHz.		sequence, 20 steps. Accuracy: <u>+</u> 3%.		Slope: ±				Display area: 8 x 10 div (1 div = 1 cm) Accelerating voltage: 2.1kV		
Algebraic addition: CH 1 + CH 2, CH 1 - CH 2.		Variable time control: 5:1, uncalibrated,		Trigger Sensitivity				Phosphor: P31 Z modulation (S-1330 only): Positive TTL signal, low level blank		
Inverter: CH 2 only.		continuously variable between steps.		Coupling Bandwidth Internal External		External	intensity at any intensity, high level unblank any intensity. Trace rotation: Adjustable front panel			
Horizontal Amplifier		Sweep magnification: $10X$ , $\pm 10\%$ , extend sweep		TV-V 20Hz - 1kHz 0.5 div 0.05Vpp		Calibrator: Square wave 1kHz, 2Vpp ±3% Power requirements: 115, 230VAC ±10%, 50/60Hz				
X-Y mode: Switch selectable using X-Y sw CH 1: X-axis.	vitch		up to 10ns/div.	TV-H	1kHz - 100kH	z 0.5 div	0.05Vpp	Power consu	amption: Approximately 40 watts 5 1/4" (H) x 12 3/4" (W) x 15 5/8" (D)	
CH 2: Y-axis.		Delayed Sweep (S-1330 on	nly)	AUTO	100Hz - 30MH		0.1Vpp	Net weight:	16 lbs. 12 oz. (7.6kgs.) supplied: Two x1, x10 probes, schematic diagram	
Accuracy: Y-axis $\pm 3\%$ . X-axis $\pm 6\%$ .		Sweep speed: 0.1µs/div - 0.2s/d	div in 1-2-5 seq., 20 steps.	NORM	DC - 30MHz	z 1.5 div	0.1Vpp	& parts list, A	C power cord, spare fuse, and dust cover.	
	40MHz 40MHz 40M						OMHz		40MHz	
-			-						-	
Model S-1340		del S-1341C		-1342FG		Model S-1343			Model S-1345	
2-Channel - Oscilloscope		annel - Dual Trace,			· · ·	2-Channel - Dual T				
All Scopes				gger with Dual Trigger w/ Free						
UL, CSA, TUV, GS Approved	Fre	equency Counter	Generator Counter & Function Ge				enerator	Find, Duai Time Base		
					<ul> <li>1mV/DIV sensitivity</li> <li>Variable hold off</li> <li>5 digits 0.36" red LED display</li> <li>TV sync</li> <li>Beam finder (S-1345 only)</li> <li>Z modulation (S-1345 only)</li> <li>Component tester (S-1345 only)</li> <li>Dust cover included.</li> <li>Features</li> <li>5 digits 0.36" red LED display</li> <li>0.1Hz - 50MHz autorange</li> <li>0.001Hz resolution.</li> <li>Auto gate time</li> <li>Auto detect, auto reset</li> <li>Snex solution</li> <li>TTL synchronous output</li> </ul>					
S-1340 Shown					• 2 free x1, x10 probes					
Specifications										
Vertical Amplifiers (CH 1 and CH 2)		Horizontal Amplifier (conti	inued)	Delayed S	weep (S-13	45 only) (con	tinued)	Compone	ent Tester (S-1345 only)	
Sensitivity: 5mV/div - 5V/div (x1 mode)			Bandwidth: DC - 1MHz (-3dB)		Accuracy: ±3%				Test voltage: Max. 6Vrms (open circuit) Test current: Max. 11mA (shorted)	
1mV/div - 1V/div (6MHz, -3dB) (x5 mode) Attenuator: 1-2-5 sequence, 10-step attenuator, plus vernier control.		X-Y phase difference: Approximately 3° at 50kHz Sweep System		Sweep magnification: 10X, ±10%, extend sweep speed up to 10ns/div. Delay time position: Variable control to locate				Test frequency: Line frequency Components: Capacitor, inductor, diode, transistor, zener, etc. CH 2 Output (S-1345 only)		
										Rise time: About 8.8ns
<b>Over shoot:</b> Less than 5% <b>Input impedance:</b> $1M\Omega \pm 2\%$ , $25pF \pm 10pF$	Hold off time: 5:1 continuously variable (0.1µs/div).			Trigger				Bandwidth: 20Hz - 20MHz (-3dB)		
Max. input voltage: 400V (DC + AC peak)	DV (DC + AC peak) Main Sweep			Trigger coupling: AUTO, NORM, TV-V, TV-H				Other Specifications		
perating modes: CH 1, CH 2, DUAL (ALT or CHOP) and ADD. Sweep speed: 0.1µs/div - 2s/div in 1-2-5 sequence, 23 steps.			Trigger source: CH 1, CH 2, ALT, LINE, EXT				CRT: Type: Rectangular with internal graticule. Adjustable graticule illumination (S-1345 only).			
Chop frequency: Approximately 500kHz				Slope: ±				Display area: 8 × 10 div (1 div = 1 cm) Accelerating voltage: 2.1kV (S-1340), 12kV (S-1345) Phosphor: P31		
Algebraic addition: CH 1 + CH 2, CH 1 - CH 2 Inverter: CH 2 only		Variable time control: 5:1, uncalibrated,		Trigger Sensitivity Coupling Bandwidth Internal External			Externel	Z modulation (S-1345 only): Positive TTL signal, low level blank intensity at any intensity, high level unblank any intensity.		
Horizontal Amplifier		continuously variable between steps.		TV-V	DC - 1kHz		0.1Vpp	Trace rotatio	ny intensity, nigh level unblank any intensity. n: Electrical, adjustable front panel. Square wave 1kHz ±10%, 2Vpp ±3%	
X-Y mode: Switch selectable using X-Y sw	/itch	Sweep magnification: 10X, ±		TV-H	1kHz - 100kH		0.1Vpp	Power requi	rements: 115V, 230VAC ±10%, 50/60Hz umption: Approximately 40 watts	
CH 1: X-axis		Delayed Sweep (S-1345 on	up to 10ns/div.	AUTO	100Hz - 40MH	-	0.1Vpp	Dimensions	17 lbs. 3.2 oz. (7.8kgs.)	
CH 2: Y-axis Accuracy: Y-axis ±3% X-axis ±6%		Sweep speed: 0.1µs/div - 2s/div		NORM	100Hz - 40MH		0.1Vpp	Accessories	supplied: Two x1, x10 probes, schematic diagram C power cord, spare fuse, and dust cover.	
Accuracy. 1-and ±0 /0 A-and ±0 /0		25/un	· 1 2 0 004., 20 01005.			1.0 010	0thb	a parts list, P	to portor cord, spare ruse, and dust cover.	

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