

100 MHz Analog Oscilloscope

- Dual time base oscilloscope (2 channel)
- 5mV/division sensitivity
- Sweeps to 5ns/division
- 23 calibrated ranges, main time base

model

- Signal delay line
- 15 kV accelerating voltage
- Channel 2 output

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Specificatio	ns
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/ERTICAL AMPLIFIERS (CI	H I and CH 2)
Sensitivity	5mV/div to 5 V/div. 1 mV/div to 1V/div (at X5 MAG)
Attenuator	10 calibrated steps in 1-2-5 sequence.
Auteridator	Vernier control provides fully adjustable sensitivity
	between steps, adjustment range 1/1 to 1/2.5
Accuracy	±3% (±5% at X5 MAG)
Input Impedance	IMΩ +3%
Input Capacitance	25 pF ±10pF
Frequency Response	DC: DC to 100 MHz (-3 dB)
X5 MAG	DC to 20 MHz (-3 dB)
AC	10Hz to 100 MHz (-3 dB)
Rise Time	3.5 ns (Overshoot \leq 5%)
Signal Delay Time	Variable
Square Wave Characteristics	Overshoot less than 5%, 10 mV/div range
- Camp France Characteristics	Other ranges within 5% additional
Maximum Input Voltage	400V (DC + AC peak)
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/ERTICAL AMPLIFIERS	
Operating Modes	CH 1, CH 2, Dual, Add
Delay Time Between Channels	Within 1 ns between CH 1 and CH 2
Crosstalk	30:1 at 100 kHz
e. osstani	30.1 dt 100 lt.12
SWEEP SYSTEM	
Operating Modes	
A	A sweep
В	Delayed B sweep
B TRIGGERED	B sweep triggered after delay
A Time Base	2 streep til. gered uiter delay
Sweep Mode	Auto, normal
Sweep Time:	5s to 20ns/div., 23 steps in 1-2-5 sequence
Sweep fille.	with variable control
Accuracy	± 3%
Hold Off Time	Continuously variable. Adjustment range from
Hold Oil Tillie	normal to 1.5 times the sweep time
B Time Base	normal to 1.5 times the sweep time
Delay Method	Continuous delay. Triggered delay
Sweep Time	20ns. to 0.5s/div., 23 steps in 1-2-5 sequence
Accuracy	± 3%
Delay Time	Start point: $0.5 \text{ div to} + 0.3 \text{ div.}$
Delay Tille	End point: 10 div + 1 div
Delay Jitter	Within 1/10,000 of full scale sweep time
Delay Jittel	Within 1/10,000 of full scale sweep time
TRIGGERING	
A Trigger	CU I CU 2 LINE EVT
Source	CH 1, CH 2, LINE, EXT
Sensitivity	30Hz to 110MHz
TV-V	20Hz - 30kHz
TV-H	3kHz - 100kHz
Slope	+ or -
B Trigger	The A trigger is also the B trigger

	2190B
EXTERNAL TRIGGER	
Input Impedance	ImΩ, 30pF
Maximum Input Voltage	300V (DC + AC peak)
HORIZONTAL AMPLIFIER	
X-Y Mode	X Axis = CH 1. Y Axis = CH 2
Sensitivity	5 mV/div to 5 V/div, CH 1 and CH 2
Accuracy	±3% calibrated position, ±6% using x10 MAG
Frequency Response	DC to 2 MHz (-3dB)
Output Voltage Freq. Response Output Impedance	Approx. 100mV/div open circuit Approx. 50 mV/div into 50Ω 50 Hz to 30 MHz. approx. 50Ω
CRT	
Туре	Rectangular with integral graticule
Display Area	8 x 10 div (1 div = 1 cm)
Accelerating Voltage	15kV
Phosphor	P3 I

Other Specifications

Z Axis	Sensitivity: 3 V or greater, TTL level.
(Intensity Modulation)	Negative polarity increases brightness
Input Impedance	15 kΩ
Usable Freq. Range	DC to 3.5 MHz
Maximum Input Voltage	20 V (DC + AC peak)
CAL/Probe Compensation	
Waveform	Positive going squareware
Output Voltage	0.5 V p-p ±3%
Frequency	Approx. 1kHz
Duty Cycle	50 ± 5%
Power Requirements	100/120/220/240/ VAC ±10%, 50/60 Hz,
	approximately 55 W
Dimensions (HxWxD)	12.76 x 15.68 x 5.2" (324 x 398 x 132 mm)
Weight	18.7 lbs (8.5 kg)
ENVIRONMENT	
Within Specified Accuracy	50° to 95°F (10° to 35°C), 85% maximum RH
Full Operation	32° to 104°F (0° to +40°C), 85% maximum RH
Storage	-4° to 158°F (-20° to +70°C)
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Accessories

Three Year Warranty

SUPPLIED: Instruction Manual, Two PR-37A x1/x10/Ref. Probes or equivalent, AC Power Cord, Spare Fuse

OPTIONAL: PR-32A Demodulator Probe, PR-46A x10 Probe, PR-37A x1/x10/REF. Probe, PR-100A x100 Probe, PR-55 High Voltage x1000 Probe, LC-210A Carrying Case

