

SPECIFICATIONS

Cathode Ray Tube

Type:

C5S106P31B

Acceleration voltage:

2 kV

Scale:

8 div × 10 div (1 div = 9.5 mm)

Vertical Amplifier (for Both CH1 and CH2)

Deflection Factor:

5 mV/div to 20V/div ±5%

Attenuator:

5 mV/div to 20V/div, 1-2-5 sequence

Precisely adjustable in all 12 ranges.

Sensitivity error between ranges is ±5%.

Input impedance:

1 MΩ ±2%

Input capacitance:

Approx. 27 pF

Frequency response:

DC DC to 20 MHz (less than -3 dB)

[5 mV/div ~ 10V/div]

AC 2 Hz to 20 MHz (less than -3 dB)

[5 mV/div ~ 10V/div]

Risetime:

Less than 17.5 nsec.

Overshoot:

Less than 3% (at 100 kHz square wave)

Cross-talk:

ALT Less than -60 dB

CHOP Less than -50 dB

Operating modes:

CH1 CH1 only

CH2 CH2 only

ALT 2-channel with ALT (alternate sweep)

CHOP 2-channel with CHOP

ADD 2-channel algebraic sum (CH1 + CH2)

CHOP frequency:

Approx. 200 kHz

Maximum input voltage:

600 Vp-p or 300V (DC + AC peak)

Invert polarity:

CH2 only

Sweep Circuit

Sweep system:

Triggering sweep and auto sweep (free-running sweep at no-signal time)

Sweep time:

0.5μs/div to .5s/div ±5% and X-Y, 1-2-5 sequence

Fine adjustment in all 19 ranges

Magnification:

10 times ±5% (PULL × 10 MAG)

Linearity:

Better than 3% (2 μs/div to 0.5s/div)

Better than 5% (0.5 μs/div to 1 μs/div)

Better than 10% (× 10 MAG)

Triggering

Source:

INT, CH1, CH2, LINE, EXT

Slope:

NORM Positive and negative

VIDEO Positive and negative (LINE and FRAME automatically selected by SWEEP TIME/DIV)

LINE (TV-line): 0.5 μs/Div to 50 μs/div

FRAME (TV-Frame): 0.1 ms/div to 0.5s/div

Sensitivity:

Trigger Type	Bandwidth	Minimum Sync Voltage	
		INT	EXT
NOR	50 Hz ~ 15 MHz	0.5 div	0.5 Vp-p
	20 Hz ~ 20 MHz	1.0 div	1.0 Vp-p
AUTO	50 Hz ~ 15 MHz	0.5 div	0.5 Vp-p
	20 Hz ~ 20 MHz	1.0 div	1.0 Vp-p
VIDEO	VIDEO signal	1.0 div	1.0 Vp-p

External triggering input voltage:

50V (DC + AC peak)

Horizontal Amplifier (CH2 input)

Operating modes: (Except × 10 MAG)

X-Y mode is selected by SWEEP TIME/DIV.

CH1: Y axis

CH2: X axis

Deflection Factor:

Same as CH1 (5 mV/div to 20V/div ±5%)

Frequency response:

DC DC to 2 MHz (less than -3 dB)

AC 2 Hz to 2 MHz (less than -3 dB)

Input impedance:

Same as CH1 (1 MΩ ±2%)

Input capacitance:

Same as CH1 Approx. 27 pF

X-Y phase difference:

Less than 3° at 70 kHz

Calibrating Voltage

0.1V $\pm 3\%$ (at reference level 0V)

1 kHz $\pm 3\%$ (square wave, positive)

Intensity Modulation

Input voltage:

TTL level

Input impedance:

15 k Ω $\pm 20\%$

Bandwidth:

DC to 5 MHz

Maximum input voltage:

50V (DC + AC peak)

Trace Rotation

Trace angle is adjustable by panel surface adjustor.

Power Requirements

Power supply voltage:

100/120/220/240V $\pm 10\%$, 50/60 Hz

Power consumption:

47W

Dimensions

Width:

260 mm (277 mm)

Height:

190 mm (204 mm)

Depth:

328 mm (393 mm)

Figures in () show maximum sizes.

Weight:

8.4 kg

Accessories

Probe (PC-22)	2
Damping: 1/10	
Input impedance: 10 M Ω	
Input capacitance: Less than 18 pF	
Instruction manual	1
Replacement fuse:	
0.5A	2
0.8A	2