

VERTICAL AXIS

Sensitivity: 5mV~5V/DIV, 10 steps in 1-2-5 sequence (X5 MAG: 1mV/DIV)

Sensitivity accuracy: ≤3% (×5MAG: ≤5%)

Vernier vertical sensitivity: continously variable to 1/2.5 or less of panel-indicated value

Frequency bandwidth:

DC-20MHz (×5MAG:DC-7MHz)

DC-40MHz (×5MAG:DC-15MHz)

AC coupling: Low limit frequency 10Hz. (With reference to 100KHz,8DIV.Frequency response with-3dB)

Rise time: Approx.17.5Ns (×5MAG:Approx.50Ns) / 9.5nS (X5MAG: Approx.25nS)

Input impedance: Approx. 1M ohm//Approx. 25pF

Square wave characteristics:

Overshoot: \leq 5% (At 10Mv/DIV range) other distortions and other ranges: 5% added to the above

value

DC balance shift: 5mV~5V/DIV; ±0.5 DIV, 1mV~2mV/DIV±2.0DIV

Linearity: $< \pm 0.1$ DIV of amplitude change when waveform of 2 DIV at graticule center is moved vertically.

Vertical modes:

CH1 single channel.

CH2 single channel

DUAL: CH1 and CH2 are displayed ALT or CHOP selectable at any sweep rate.

ADD: CH1+CH2 algebraic addition.

Chopping repetition frequency: Approx.250KHz

Input coupling: AC, GND, DC.

Maximum input voltage: 300V peak (AC: frequency 1KHz or lower) When set probe switch at 1:1, the maximum effective readout is 40Vp p(14Vrms at sine wave); or set probe switch at 10:1, the maximum effective readout is 400Vpp(140Vrms at sine wave).

Common mode rejection ratio: 50:1 or better at 50KHz sinusoidal wave. (when sensitivities of CH1 and CH2 are set equally)

Isolation between channels (at 5Mv/DIV range): > 1000:1 at 50 MHz; > 30:1 at 20MHz; > 30:1 at 40MHz

CH1 signal output:

At least 20My/DIV into a 50 ohm termination.

Bandwidth is 50Hz to at least 5MHz.

CH2 INV BAL: Balanced point variation: \(\leq 1 \) DIV(Reference at center graticule)



Triggering source: CH1,CH2,LINE,EXT.

Coupling: AC:20Hz to full bandwidth

Slope: +/Sensitivity:

20Hz-2MHz: 1.0 DIV, TRIG-ALT: 2DIV, EXT: 200Mv; 2MHz-20MHz: 1.5DIV; 20MHz or

higher: 2.0DIV

TRIG-ALT: 3DIV,EXT:800mv

TV: Sync pulse more than 1 DIV (EXT:1V)

Triggering modes:

AUTO; NORM; TV-V; TV-H.

(Both TV-V and TV-H synchronize only when the synchronizing signal is negative)

EXT triggering signal input:

Input impedance: Approx:1M ohm//approx.25pF

Max input voltage: 300V(DC+AC peak), AC: frequency not higher than 1KHz.

HORIZIONAL AXIS

Sweep time: 0.2μSec-0.5Sec/DIV,20Steps in 1-2-5sequence.

Sweep time accuracy: ±3%

Vernier sweep time control: $\leq 1/2.5$ of panel-indicated value.

Sweep magnification: 10 times

×10MAG sweep time accuracy: ±5%(20nsec-50nsec are uncalibrated) Linearity: ±3%,×10MAG: ±5%(20ns and 50ns are uncalibrated) Position shift caused by×10MAG:Within 2 DIV, at CRT screen center.

X-Y MODE

Sensitivity: Same as vertical axis.(X-axis:CH1 input signal, Y-axis:CH2 input signal)

Frequency bandwidth: DC to at least 500KHz X-Y phase difference: ≤3°at DC-50KHz

Z AXIS

Sensitivity: 5Vp-p (positive-going signal decreases intensity)

Frequency bandwidth: DC-2MHz Input resistance: Approx,47k ohm

Maximum input voltage: 30V (DC+AC peak, AC frequency ≤1KHz)

CALIBEATION VOLTAGE

Waveform: positive-going square wave

Frequency: Approx,1KHz Output voltage:2Vp-p ±2%

Output impedance: Approx,1K ohm



Type: 6-inch rectangular type, internal graticule

Phosphor: P31

Acceleration voltage: approx 2KV

Effective screen size: 8x10 DIV(1 DIV=10mm(0.39in))

Graticule: internal Trace rotation: provided



20MHz/40MHz Dual Channel
High Sensitivity 1Mv/DIV
Z Axis Input
CH1 Output
10 times sweep magnification
TV Synchronization, X-Y mode
High luminance, internal graticule
Japanese electronic encoder, light, handy and reliable
Fully sealed durable vertical mode switch
ALT Triggering Function, simultaneous observation of two independant singals
Triggering level lock function. Automatic synchronize function