

# **PINTEK**

# 100MHz Oscilloscope

## PS-1005



IEC 1010 EN 61010

**Pintek Electronics Co., Ltd**  
www.pintek.com.tw

### **Features:**

- 100MHz ALT Trigger
- Z-Input, Y-Output
- Hold-off, X-Y Operation
- 1mV/DIV Sensitivity
- 2nS/DIV Resolution
- 20MHz Limit
- With Delay Sweep
- Two Sweep Mix Function



# PS-1005 100MHz OSCILLOSCOPE

## SPECIFICATIONS

### CATHODE RAY TUBE

6 inch diagonal, rectangular screen with internal graticule  
8 x 10 div ( 1 div = 1 cm ), P31 phosphor. 14 kV accel  
voltage.

### VERTICAL DEFLECTION

**Bandwidth:** DC-100 MHz ( -3db )

**Sensitivity:**

1 mV / div - 1 V / div ( 25 MHz -3db ). x 5 gain selected.  
5 m / div - 5 V / div

**Attenuator:** 1-2-5 sequence. 10 step with variable control.

**Input Impedance:**  $1M\Omega \pm 2\%$ , 25 pF  $\pm 10$  pF

**Max. Input Voltage:** 400 V ( DC + AC peak ).

**Rise Time:** 5mV/DIV~5V/DIV: 3.5nS ; 1mV/DIV: 14nS

**Over Shoot:** Less than  $\pm 5\%$

**Operation Mode:** CH 1, CH 2, DUAL.

**Algebraic Addition:** CH 1 + CH 2, CH 1 - CH 2.

**Inverter:** CH 2 only.

### HORIZONTAL AMPLIFIER

**X-Y mode :** switch selectable using X-Y switch.

CH 1 : X axis

CH 2 : Y axis

**Accuracy:** Y-Axis :  $\pm 3\%$  X-Axis :  $\pm 6\%$

**Bandwidth:** DC-1 MHz ( -3db )

**X-Y Phase Difference:** Approximately  $3^\circ$  at 50 kHz.

### SWEEP SYSTEM

**Sweep Display Mode:** Main, Mix, Delay.

**Hold Off Time:** 5:1 continuously variable. ( 0.1  $\mu$  S / div )

### MAIN SYSTEM

**Sweep Speed:**

20 nS/div to 0. 5S/div in 1-2-5 sequence, 23 steps.

**Accuracy:**  $\pm 3\%$

**Variable Time Control:**

5:1, uncalibrated, continuously variable between steps.

**Sweep Magnification:**

10X,  $\pm 10\%$  extend sweep speed up to 2 nS/DIV.

### DELAY SWEEP

**Sweep Speed:**

20 nS/DIV to 0. 5 S/DIV in 1-2-5 sequence, 23 steps.

**Accuracy:**  $\pm 3\%$ .

**Sweep Magnification:**

10X,  $\pm 10\%$ , extend sweep speed up to 2 nS/DIV.

**Delay Time Position:**

Variable control to locate desirable waveform for extending.

### TRIGGERING

**Trigger Coupling:** AC, TV-V(DC), TV-H, LINE.

**Trigger Source:** CH 1, CH2, ALT, EXT.

**Slope:**  $\pm$

**Trigger Sensitivity:**

COUPLING	BANDWIDTH	INT	EXT
TV-V(DC)	DC 1kHz	1.0 div	0.1 Vp-p
TV-H	1kHz-100 kHz	1.0 div	0.1 Vp-p
AUTO	100Hz-100 MHz	2.0 div	0.2 Vp-p
NORM	100Hz-100 MHz	2.0 div	0.2 Vp-p

### CH 2 OUTPUT

**Output level:**

100 mV / div ( no load ). 50 mV / div ( with  $50\Omega$  load ).

**Bandwidth:** 20 Hz - 20 MHz ( -3db ).

**Graticule Illumination:** Adjustable.

**Calibrator:** Square wave 1 KHz  $\pm 10\%$ , 0.5 Vp-p  $\pm 3\%$

**Z-Modulation:**

Positive TTL signal, low level blank intensity at any intensity,  
high level unblank any intensity.

**Trace Rotation:** Adjustable on front panel.

**Power Source:** 115V/230V AC  $\pm 10\%$ , 50/60 Hz.

**Power Consumption:** Approx. 60 Watts

**Dimensions:** 324 (W) x 398 (D) x 132 (H) mm.

**Net Weight:** Approx. 8.5 kg.

**Rated Range of Use:**  $10^\circ\text{C} - 35^\circ\text{C}$ , 10-80% R.H.

**Limits of Operation:**  $0^\circ\text{C} - 50^\circ\text{C}$ , 10-80% R.H.

**Storage Environment:**  $-30^\circ\text{C} - 70^\circ\text{C}$ , 10-90% R.H.

**CE STANDARD:**

E.M.C. Regulations-1992 (E.C. Directive 89/336/EEC)

EN 50081-1 Emissions

EN 50082-1 Immunity



# PINTEK

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