

# **PINTEK**

## *PS-1000* *100 MHz OSCILLOSCOPE*



### **Features:**

**100MHz Bandwidth / 20MHz Limit / Time Mag 10 / 1mV Sensitivity / 2.0nS Resolution**



IEC 1010 EN 61010

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



# PS-1000 100MHz PORTABLE OSCILLOSCOPE

## SPECIFICATIONS

### CRT

**Type :** Rectangular with integral graticule.  
**Display Area :** 8 x 10 div (1 div = 1 cm)  
**Accelerating Voltage :** 14 kV.  
**Phosphor :** P31.

### VERTICAL AMPLIFIERS ( CH 1 and CH 2 )

#### Sensitivity :

5 mV / div to 5 V / div ( X1 mode ).  
1 mV / div to 1 V / div ( X5 mode ).  
1-2-5 sequence, 10 step attenuator. Vernier control provides fully adjustable attenuation between steps.

#### Accuracy :

± 3 % ( X1 mode )  
± 5 % ( X5 mode ).

**Input Resistance:** 1 MΩ ± 2 %.

**Input Capacitance:** 25 pF ± 10 pF.

#### Frequency Response:

5 mV to 5 V / div ( CAL ): DC to 100 MHz (-3 dB).  
1 mV / div ( CAL ): DC to 25 MHz (-3 dB).

**Rise Time:** Approximately 3.5 ns.

#### Operating Modes:

CH1: CH 1, single trace.  
CH2: CH 2, single trace.  
ALT: dual trace, alternating.  
CHOP: dual trace, chopped.  
ADD: algebraic sum of CH1 + Ch2

**Polarity Reversal(Invert):** CH 2 only

**Maximum Input Voltage:** 400V dc+ac pack

#### Maximum Undistorted Amplitude:

DC-to-120 MHz: 4 divisions.  
DC-to-60 Mhz: 8 divisions.

### HORIZONTAL AMPLIFIER

(Input through channel 1 input)

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

CH 1 : X axis  
CH 2 : Y axis

**Sensitivity:** Same as vertical channel 2

#### Accuracy:

Y-Axis : ±3%  
X-Axis : ±6%

**Input Impedance:** Same as vertical channel 2

**Frequency Response:** DC to 1 MHz typical (-3 dB)

**X-Y Phase Difference:** Approximately 3° at 50 kHz.

**Maximum input Voltage:** Same as vertical channel 2

### SWEEP SYSTEM

#### Sweep Speed:

2.0 ns/div to 0.5 s/div in 1-2-5 sequence, 23 steps. Vernier control provides fully adjustable sweep time between steps.

**Accuracy:** ± 3 %.

#### Sweep Magnification:

10X, ± 10% extend sweep speed up to 2 ns/div

#### Holdoff:

Continuously adjustable from NORM to 5 times normal.

### TRIGGERING

**Trigger Modes:** AUTO ( free run ) or NORM

**Trigger Source:** CH 1, CH 2, ALT, EXT, LINE

**Maximum External Trigger Voltage:** 300 V dc + ac peak

#### Trigger Coupling:

AC : 30 Hz to 120 MHz.

TV - H : Used for triggering from horizontal sync pulses.

TV - V : Used for triggering from vertical sync pulses.

#### Trigger Sensitivity:

Internal: 1.0 division.  
External: 200 mV

### OTHER SPECIFICATIONS

#### Calibration Voltage:

1 kHz (nominal) Positive Square Wave, 0.5 V p-p (±3%)

**Trace Rotation:** Electrical, front panel adjustable.

#### Power Requirements:

115, 230 V ±10%, 50/60 Hz, approximately 40W

**Dimensions:** 324 x 132 x 398 mm (12.8 x 5.2 x 15.6")

**Weight:** Approximately 8.5 kg (18.7 lbs)

#### CE STANDARD:

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

EN 50081-1 Emissions

EN 50082-1 Immunity



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# PINTEK

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