

# PS-200 20MHz PORTABLE OSCILLOSCOPE

## SPECIFICATIONS

### CRT

Type : Rectangular with integral graticule.

Display Area : 8 x 10 div (1 div = 1 cm)

Accelerating Voltage : 2.1 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 M $\Omega$  ± 2%.

Input Capacitance: 25 pF ± 10 pF.

Frequency Response:

5 mV to 5 V / div (CAL): DC to 20 MHz (-3 dB).

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

Rise Time: Approximately 17.5 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

Maximum Input Voltage: 400V dc+ac peak

### 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:

0.1  $\mu$ s/div to 2 s/div in 1-2-5 sequence, 20 steps. Vernier control provides fully adjustable sweep time between steps.

Accuracy: ± 3%.

Sweep Magnification:

10X, ± 6% (0.1  $\mu$ s and 0.2  $\mu$ s ranges uncalibrated when X10 is engaged).

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 30 MHz.

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

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

Trigger Sensitivity:

Internal: 0.5 division (1 division with TV Coupling).

External: 500 mV

### OTHER SPECIFICATIONS

Calibration Voltage:

1 kHz (nominal) Positive Square Wave, 2.0 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 7.6 kg (16.75 lbs)

Rated Range of Use: 10°C-35°C, 10-80% RH

Limits of Operation: 0°C-50°C, 10-80% RH

Storage Environment: -30°C-70°C, 10-90% RH

CE STANDARD:

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

EN 50081-1 Emissions

EN 50082-1 Immunity



IEC 1010  
EN 61010

# PINTEK

Pintek Electronic Co., Ltd

2F No.32 Tai-Pen Rd., Shulin City, Taipei Hsien,  
Taiwan, R.O.C.

SALES AGENT