

# DS-303P DIGITAL STORAGE OSCILLOSCOPE

## SPECIFICATIONS

### CRT

6 inch diagonal, rectangular screen with internal graticule  
8 x 10 DIV (1 DIV=1cm), P31 phosphor, 2.1kV accel.  
voltage.

### 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 30 MHz (-3 dB).  
1 mV / div (CAL): DC to 10 Mhz (-3 dB).

**Rise Time:** Approximately 11.5 ns.

#### Operating Modes:

CH1, CH2, ALT, CHOP, ADD.

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

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

**Maximum Undistorted Amplitude:**

DC-10-30 MHZ:4 DIVISIONS.  
DC-10-20 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 vortical channel 2

#### Accuracy:

Y-Axis : ±3% ; X-Axis : ±6%

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

**Frequency Response:** DC to 2 MHz typical (-3 dB)

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

**Maximum input Voltage:** Same as vortical channel 2.

### SWEEP SYSTEM

#### Sweep Speed:

0.1 μs/div to 2 s/div in 1-2-5 sequence, 21 steps. Vernier  
control provides fully adjustable sweep time between steps.

**Accuracy:** ± 3 %.

#### Sweep Magnification:

10X, ± 6% ( 0.1 μs and 0.2 μs ranges uncalibrated when  
X10 is engaged ).

#### Hold off:

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.

### DIGITAL STORAGE FACILITIES

**Memory:** 2K words per channel (2x2048x8 bit)

**Maximum Sampling Rate:** 40M sample/sec.

**Vertical Resolution:** 8 bit (25 Lerels/div)

#### Vertical Accuracy:

Same as analog.(±3%x1 mode ±5%x5 mode)

**Horizontal Resolution:** 2048 point for 10 div.

**DSO Timebase:** 0.1 μs/div to 0.5s/div (21 Range)

**Accuracy:** ±3%(0.1 μs and 0.2 μs range uncalibrated)

**Slow:** x100, 10ms/div~0.5s/div (6 Range) extend to 50s/div.

**Equivalent Mode Range:** 2 μs/div to 0.1 μs/div (5 Range)

**Equivalent Mode Bandwidth:** 30MHz(-3dB)

#### Roll Mode Range:

0.5s/div to 10ms/div (6 Range) x100 extend to 50s/div.

**Clock Rate:** 80 MHZ

#### Operating Mode:

Roll, Save All, Save CH2, X-Y, Single.

Pre-Trig (0%, 25%, 50%, 75%) Plot out.

#### USB Interface:

Out put to your USB FLASH DISK

(for FAT FILE SYSTEM only.)

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

#### Power Requirements:

110, 220 V ±10%, 50/60 Hz, approximately 60W.

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

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



SALES AGENT

# PINTEK

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