

40MHz Oscilloscope With Frequence Counter



- Trigger: Auto, Norm, TV-V, TV-H, Line, Alt.
- Time/DIV: 0.1us/DIV~2s/DIV 23 Step
- Vert/DIV: 5mV/DIV~5V/DIV 10 Step
- 40MHz Dual Trace, Dual Trigger
- 10ns Resolution.
- 1mV Sensitivity.

- 5 Digits 0.36" Red LED Display.
- 0.1Hz~60MHz Auto Range.
- Auto Detect, Auto Reset.
- 0.001Hz Resolution.
- Auto Gate Time.
- 1mV Sensitivity.

Pintek Electronic Co., Ltd

www.pintek.com.tw



CS-406 40MHz Oscilloscope With Frequence Counter

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: $1 \text{ M}\Omega \pm 2 \%$. Input Capacitance: $25 \text{ pF} \pm 10 \text{ pF}$.

Frequency Response:

5 mV to 5 V/div (CAL): DC to 40 MHz (-3 dB).

 $1~mV\,/\,div$ (CAL): DC to $15\,Mhz$ (-3 dB).

Rise Time: Approximately 8.8 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): Ch2 only

Maximum Input Voltage: 400V dc+ac pack

HORIZONTALAMPLIFIER

(Input through channel 1 input)

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

CH1: X axis; CH2: 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 1 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:

 $0.1 \mu \text{s/div}$ to 2.0 s/div in 1-2-5 sequence, 23 steps. Vernier control provides fully adjustable sweep time between steps.

Accuracy: ±3 %.

Sweep Magnification: 10X, ±10%

Holdoff: Continuously adjustable from norm to 5 times normal.

<u>PINTEK</u>

Pintek Electronic Co., Ltd

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

Tel: 886-2-86859562~3 Fax: 886-2-86852081

http://www.pintek.com.tw

E-Mail: pintek@pintek.com.tw; pintek@ms26.hinet.net

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 40 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 Calibration Voltage:

1 kHz (nominal) Positive Square Wave, 2.0 V p-p (±3%)

Trace Rotation: Electrical, front panel adjustable.

COUNTER

Display: 5 digits, 0.36" Red LED, display at "Hz" or "KHz"

unit, autorange.

Gate Time:

Auto Select: from 10s to 0.25s according to the frequency

of the input signal auto select.

Auto Detect: The gate time LED will "FLASH" when with input and will "OFF" without input signal, auto detect.

Auto Re-set: The data will hold 10s Max. After the input

signal is stop and then auto re-set.

Resolution: 0.001Hz to 1KHz according to the frequency of

the input signal, auto select.

MAX. Counter Range: 0.1Hz to 60MHz Accuracy: ±0.01+1 digit or 1/99999+1 digit Time Base: 18.432MHz ±10ppm(23°C±5°C)

Sensitivity:

Note: The counter must be set at "DC Coupling" operation

when the input signal is less than 10Hz.

MODE	RANGE	SENSTIVITY
IM	2Hz~40MHz 1Hz~45MHz 0.2Hz~50MHz	≥ 1DIV ≥ 2DIV ≥ 3DIV
EXT	10Hz~50MHz 1Hz~60MHz	≥200mVrms ≥400mVrms

OTHER SPECIFICATIONS

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 7.8 kg (17.2 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 49082-1 Immunity

SALES AGENT