



**PICOTEST**<sup>®</sup>  
www.picotest.com.tw

# Universal Counter U6200A

## Leading your technique crossing limit.



- 350MHz bandwidth
- 12 digits resolution with 1s gate time
- 35ps time domain function resolution.
- USB, Ethernet 10M/100M and GPIB (option) interface.
- Multi-parameter display and graphical presentation of results
- For high frequency measurement: offers an optional third channel that provides measurements over 12.4GHz

## Excellence

PICOTEST U6200A Universal Counter offers 12digits/sec frequency/period resolution and 35ps time domain function resolution. Its bandwidth can reach 350MHz or better. U6200A also provides convenient USB, Ethernet 10M/100M and GPIB (option) interface for user. In addition, the optional third channel of U6200A can provide measurements over 12.4GHz.

## Ease

U6200A features an intuitive user interface and offers shortcut keys to access frequently used functions. As a result, you can get accurate measurements quickly and easily.

## Economy

The PICOTEST corp. Delivers innovative levels of performance at an affordable price. You do not have to buy a far more expensive instrument anymore.

# Excellence Ease Economy



## TIME BASE

### TIME BASE Internal Time Base Stability

temperature stability (referenced to 25 °C)	Standard (0°C to 50 °C) 1X10 <sup>-6</sup>
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## INSTRUMENT INPUTS & INPUT SPECIFICATIONS

### Channel 1&2

#### Frequency Range

DC Coupled	DC to 350MHz
AC coupled	100KHz to 350 MHz(50Ω) 20Hz to 350 MHz (1MΩ)

#### Voltage Range Sensitivity (Sinusoid)

DC to 350 MHz	20 mVrms to ± 5 Vac + dc
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#### Trigger Level

Range	5V
Resolution	5 mv

#### Damage Level

50Ω	12 Vrms
0 to 3.5KHz, 1 MΩ	350 Vdc +ac pk
3.5 KHz to 100KHz, 1MΩ	350 Vdc +ac pk linearly derated to 12Vrms

#### >100KHz, 1MΩ

	12 Vrms
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#### Trigger Slope

Positive or Negative

#### Auto Trigger Level

Range	0 to 100% in 10% steps
Frequency	>50Hz

#### Input Amplitude

	>100mVpp(no amplitude modulation)
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#### Attenuator

Voltage Range	x10
Trigger Range	x10

## External Arm Input Specification

### Signal Input Range TTL COMPATIBLE

### Timing Restrictions

Pulse Width	> 50 ns
Transition Time	< 250 ns

### Start-to-stop Time

	> 50 ns
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## External Arm Input Characteristics

Impedance	1KΩ
Input Capacitance	17 pF

### Start/stop Slope

Positive or Negative

## External Time Base Input Specification

Voltage Range	200 mVrms to 10Vrms
Damage Level	10 Vrms (centered around 0V)
Frequency	10 MHz

## Time Base Output Specifications

Output Frequency	10MHz
Voltage Range	>1Vpp into 50Ω (centered around 0V)

## MEASUREMENT SPECIFICATIONS

### Channel 1&2

#### Period

Range	1.5ns to 10s
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#### Frequency Ratio

Measurement is specified over the full signal range of each input.

Results Range	10 <sup>-10</sup> to 10 <sup>11</sup>
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#### Time Interval

Measurement is specified over the full signal ranges of Channels 1&2.

Results Range	-1ns to 10 <sup>5</sup> s
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#### Phase

Measurement is specified over the full signal ranges of Channels 1&2.

Results Range	-180° to + 360°
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#### Rise / Fall Time

Trigger Default setting is Auto Trigger at

	10% and 90%
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#### Results Range

	1.5ns to 10 <sup>5</sup> s
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#### Pulse Width

Results Range	1.5ns to 10 <sup>5</sup> s
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### \*Time Domain Resolution 35ps

#### Totalize

Measurement is specified over the full signal range of Channel 1.

Results Range	0 to 10 <sup>15</sup>
Resolution	±1 count

Dimension & Weight

85(H)X210(W)X350(D)mm.  
Approx.4.08kg

Area Agency



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Specifications are subject to change without notice due to design improvements.

Date  
2005/09