6. Data Logging

Data

Use the 'Data Log' key to log readings over time or based on reading count.

hh.mm.ss 0.00.00

Example: - log 1,000 readings - use default path and file name

- specify location of data log file (default = Internal\DataLog)

Duration Readings set logging duration ('Readings')

number of readings to log

 starts data logging (select 'Yes' to overwrite existing file) Readings are saved and displayed within a trend chart as they are logged. (The application can be stopped before the duration ends.)



Results

displays the trend chart when logging is complete.

7. Utility Functions



Utility functions are counter operations and settings common to multiple types of counter measurements. Below is a summary of what the utility menus



 store and recall user-defined states, set specific power-on states, restore factory default settings



- enable/edit LAN, USB, and GPIB interface settings



- perform a calibration or auto-calibration, read temperature within instrument

· self-test, time base, measurement time out, auto-level, phase measurement

display control, date/time settings, folder and data/state file operations. browser control (internal and external memory)



- battery option 300 enable and charge level (if installed)

For Further Information

- 1. Keysight 53220A/53230A User's Guide
- 2. Keysight 53210A/53220/53230A Service Guide
- 3. Keysight 53220A/53230A Programmer's Reference
- 4. Keysight 53210A/53220/53230A Product Reference

www.Keysight.com/find/53220A or www.Keysight.com/find/

Using the 53220A/53230A Web User Interface

The Web User Interface (UI) is a built-in instrument utility that provides SCPI programming control of the instrument through its LAN interface. The Web UI uses a Java™-enabled PC Web browser and requires no external instrument drivers.

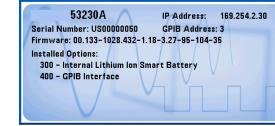
- 1) Connect a standard LAN cable directly between the counter and the PC, or between the counter and a network switch. Open the Web browser.
- 2) Obtain the IP address from the counter's 'About' window using the following keys:



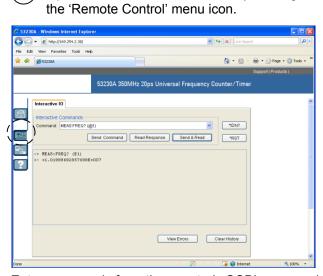
- open the Help topic window



press the About softkey



4) Open the Interactive IO window by clicking on



Enter commands from the counter's SCPI command set using the 'Command' window. Query commands which include '?' return data and can be sent using Send & Read. Commands which do not return data are sent using Send Command.

(3) Enter the IP address in the browser's address window. This opens the Web UI home page.



If prompted, click on 'Enter Password' to view the password protected page. When shipped from Keysight, there is no password nter Password - Windows Internet Exp...



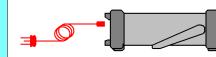
KEYSIGHT TECHNOLOGIES Keysight 53220A/53230A 350 MHz Universal Frequency Counter/Timer **Quick Start Tutorial**

Product Reference CD-ROM. All product documentation, software, and examples are included on the Keysight 53210A/53220A/53230A Product Reference CD-ROM.



Connect the Power Cord.

Then plug in the instrument.



Adjust the Carry Handle

Grasp the handle by the sides and pull outward:



Adjust the handle to the desired position:



To remove, see instructions on underside of handle.

53220-90005

the latest firmware

automatically senses standard power line voltages and frequencies. There are no switches to set or fuses to change.

BNC (f)

7.5 Vpk into 50W

50V Max (AC/DC) Damage Level: 350 Vpk

Check the Web for

The Keysight 53220A/53230A counter

Input Terminals

Channels 1-2

Max input +27 dBm

Battery Operation: 42V Max

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Edition 3

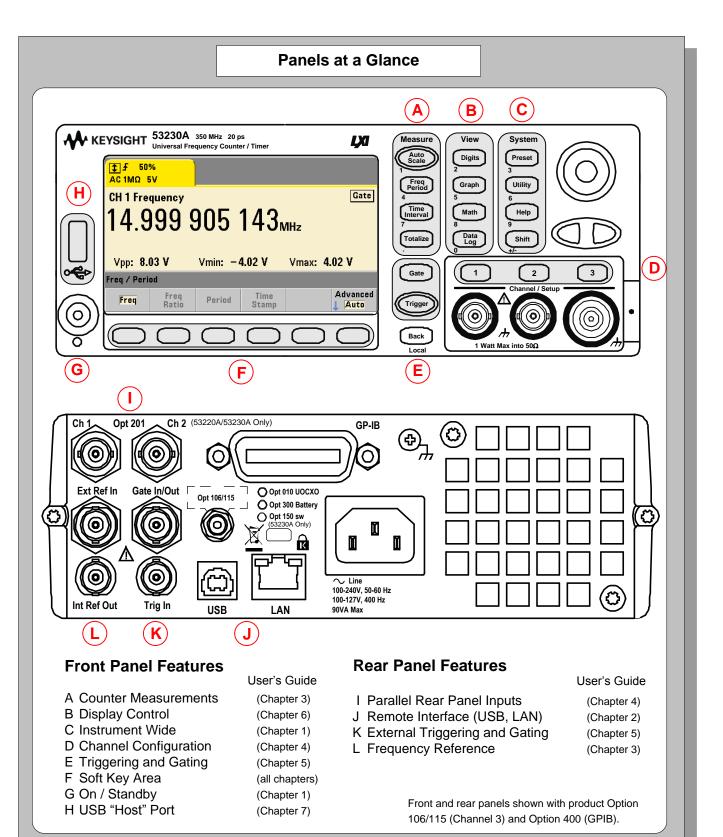


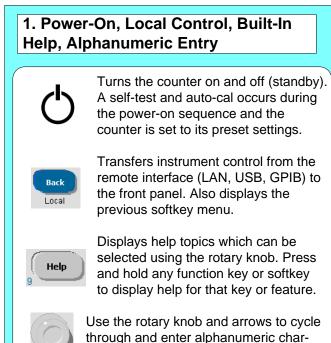
Channel 3

Opt. 106/115

N-Type (f)

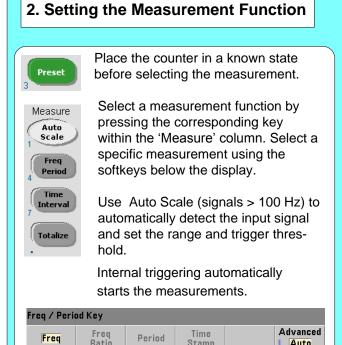
(5 Vrms)

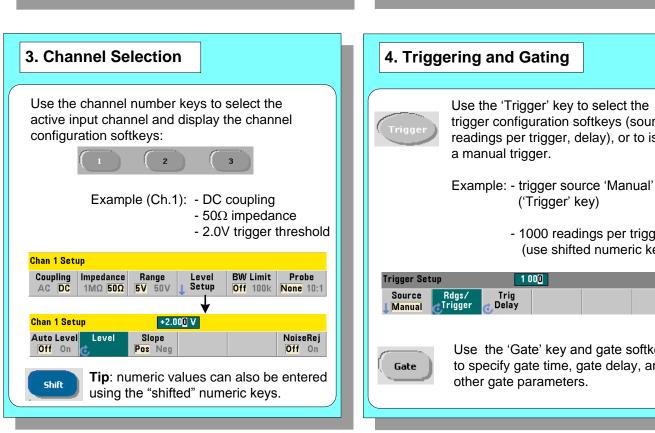


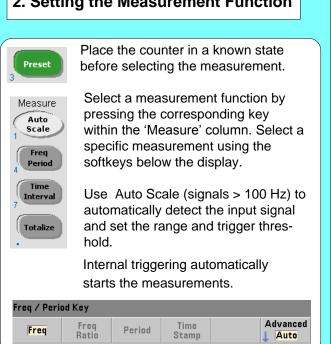


acters and to navigate through files and

folders when browsing the file system.

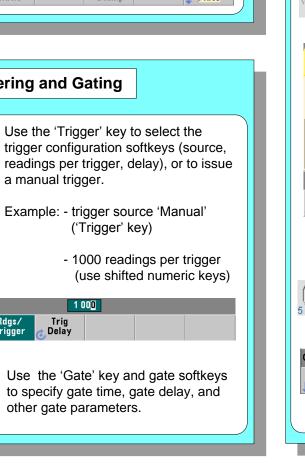






('Trigger' key)

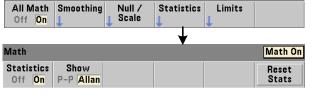
Trig Delay



5. Math, Graphics, Reading Storage

Math

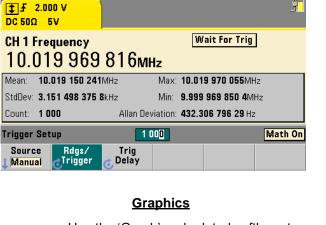
Use the 'Math' key to view the math functions available through the softkeys. 'All Math' plus the selected function must be On.



Example: - compute statistics of 1,000 readings.



Press the 'Trigger' key to send a single trigger and start the measurements (Steps 2-4).



Use the 'Graph' and related softkeys to select a trend chart or enable a histogram for graphical representations of the measurements.

raph			Math On
Trend Chart	Histogram ↓		

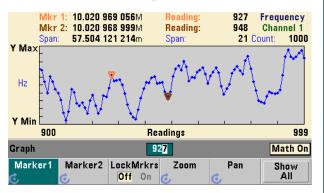
Chart

Use the 'Trend Chart' softkey to view a chart of the readings taken, or currently being taken.

Graph		Math On			
Chart	Options	Save	Zoom &	Clear	
Off On		Readings	Markers	Readings	

Example: - trend chart of 1,000 readings

- view last 100 readings
- open Zoom & Markers menu



Reading Storage

Use the 'Save Readings' and 'Export Readings' softkeys within the trend chart or histogram menus to save data internally or to an external USB device.



Use the front panel knob and arrows to create file names and browse through the file system.

