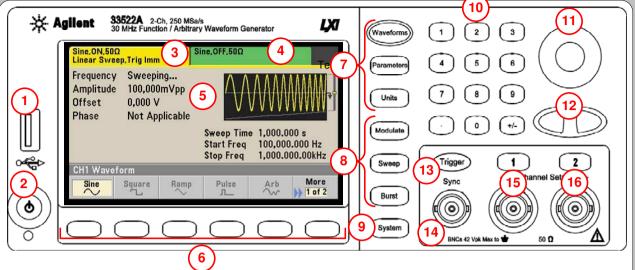
The Front Panel at a Glance



Lighted keys indicate active keys and functions (for example,

The Primary Front Panel Features:

- 1 USB Port
- 2 On/Off Switch
- 3 Channel 1 Summary Tab
- 4 Channel 2 Summary Tab
- 5 Waveform and Parameter Display Area
- 6 Menu Operation Softkeys
- 7 Waveforms/Parameters/Units Keys
- 8 Modulate/Sweep/Burst Kevs

- 9 System Key
- 10 Numeric Kevpad
- 11 Knob
- 12 Cursor Kevs (Arrows)
- 13 Manual Trigger / Trigger Configuration
- 14 Sync Connector
- 15 Channel 1
- 10 01101111011
- 16 Channel 2 (two-channel instrument only)

Get Help on Any Key

Press and hold any function key or softkey to display a help topic for that key or feature.

For example, press and hold the **Sine** softkey:

Outputs a sinusoidal waveform at frequencies from 1 μ Hz to 30 MHz.

Or press System and **Help** for the Help Menu:

Highlight the desired topic and press SELECT.

1 View the last message displayed.

2 Get HELP on any key

3 Agilent Technical Support

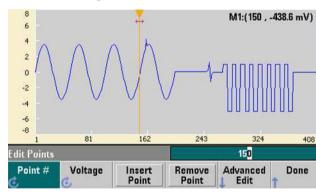
Some Helpful Hints

- 1. Lighted keys indicate active keys or functions such as the currently active waveform (for example, Burst). Most keys toggle on (lighted) or off.
- 2. No signal is output unless the 1 or 2 key is lighted.
- 3. The six softkeys allow you to select parameters and functions as shown in the softkey menu at the bottom of the display. Some softkeys toggle between related parameters. For example, the left softkey toggles between **Frequency** and **Period** below:





- 4. You can specify a signal by its amplitude and offset, or by setting its **Hi Level** (maximum) and **Lo Level** (minimum) values. See Chapter 1 in the *User's Guide* for further information.
- 5. The Agilent 33500 Series lets you connect to your PC with GPIB, USB, or LAN. See "Remote Interface Configuration" in Chapter 3 of the *Agilent Series 33500 User's Guide* for further information.
- 6. You can create arbitrary waveforms on Agilent 33500 Series with the instrument's embedded waveform editor software. See the *Agilent 33500 Series User's Guide* for more information.



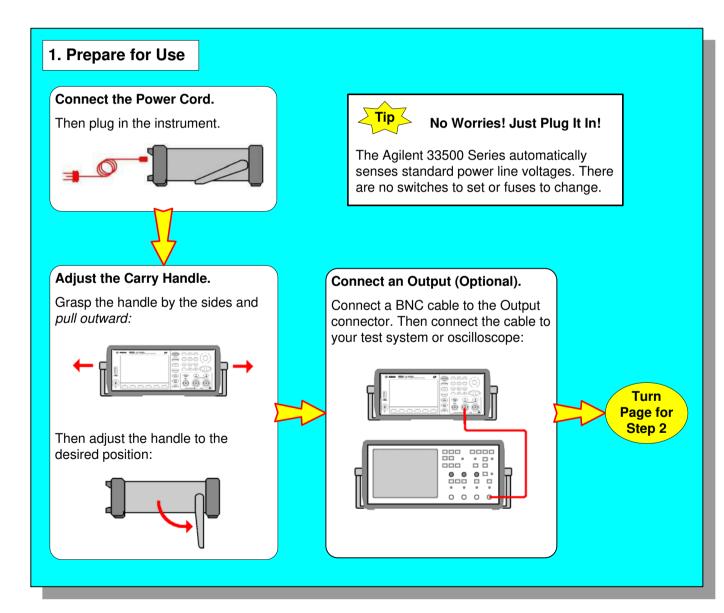
- 7. To turn off the instrument, you must hold the power switch down for about 500 ms. This prevents you from accidentally turning off the instrument by brushing against the power switch.
- 8. For the latest documentation and software updates, go to:

www.agilent.com/find/33521A or www.agilent.com/find/33522A

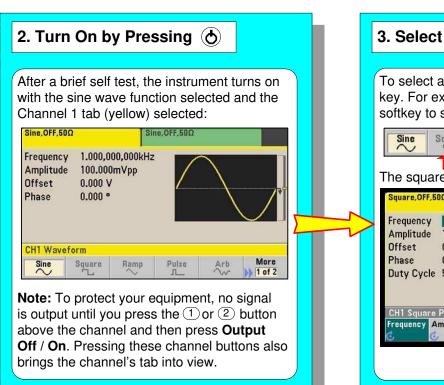
Copyright © 2010 Agilent Technologies, Inc.
Printed In Malaysia May 2010 E0510

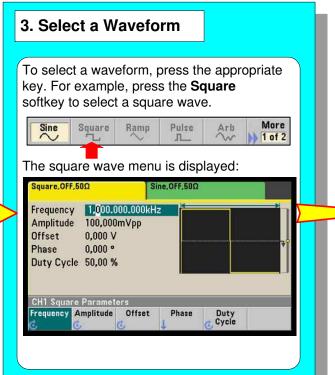
Agilent 33500 Series
30 MHz Function/Arbitrary Waveform Generator
Quick Start Tutorial

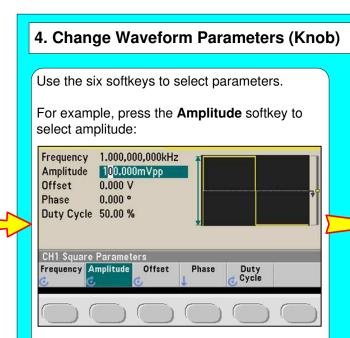
Six easy steps to learn the basics!

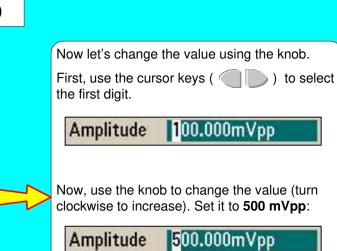


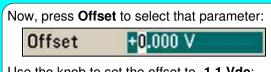










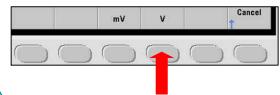


Use the knob to set the offset to **-1.1 Vdc**:

- Turn left past zero for a negative value.
- Use the cursor keys to select digits.



To finish, press the V softkey to indicate that the offset unit is Volts.



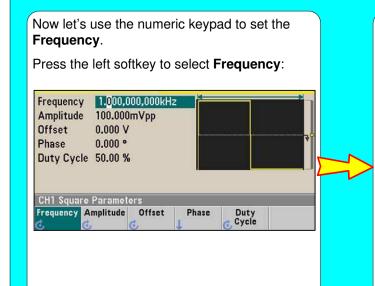


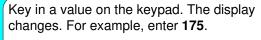
Another Way to Set Signal Levels

You can also specify a signal by setting its High (maximum) and Low (minimum) values. (See Chapter 1 in the *User's Guide*.)

> Go to Step 5 at Far Left, Below

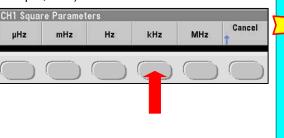
5. Change Waveform Parameters (Keypad)





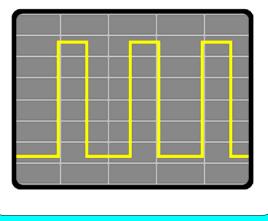
175 Frequency

Press the softkey for the desired unit (for example, **kHz**) to enter the value:



6. Output the Waveform

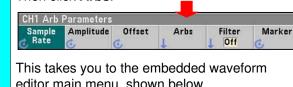
You can view the waveform by connecting an output channel to an oscilloscope. Press the button above the channel that you want to output. Then press the Output Off / On softkey to enable output on the channel.



Embedded Waveform Editor

The 33500 Series includes a waveform editor that allows you to create and edit custom waveforms. To start the embedded waveform editor, click **Arb** on the Waveforms menu.

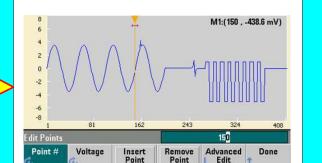




editor main menu, shown below..

Select	Edit	Edit	Import	Done
Arb	New	Existing	CSV	

See the tutorial at the end of Chapter 2 of the Agilent 33500 Series User's Guide to learn how to use the embedded waveform editor.



Refer to the following for further information:

1. The other side of this card:

For Further Information

- · "The Front Panel at a Glance"
- "Some Helpful Hints"
- 2. The Agilent 33500 Series built-in Help:
- · Press and hold any key for contextsensitive help on that key.
- Press (System) and **Help** for the Help Menu.
- 3. The Agilent 33500 Series User's Guide
- 4. The Agilent 33500 Series Service Guide
- 5. The Agilent 33500 Series Programmer's Reference Help