The Front Panel at a Glance

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


3. 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.

4. 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.

5. 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.

Quick Start Tutorial

Connect the Power Cord.
Then plug in the instrument.

Some Helpful Hints

The Agilent 33500 Series automatically senses standard power line voltages. There are no switches to set or fuses to change.

Agilent 33808 Series
30 MHz Function/Arbitrary Waveform Generator
Quick Start Tutorial

1. Prepare for Use
Agilent 33500 Series 30 MHz Function/Arbitrary Waveform Generator
Connect an Output (Optional).
Connect a BNC cable to the Output connector. Then connect the cable to your test system or oscilloscope:

2. No signal is output unless the or 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. Turn Page for Step 4

6. Menu Operation Softkeys

11. Knob

15. Channel 2 (two-channel instrument only)

6. Waveforms/Parameters/Units Keys

8. Modulate/Sweep/Burst Keys

13. Manual Trigger / Trigger Configuration  

7. Waveform and Parameter Display Area

14. Sync Connector

16. Channel 2

Some Help Tips

Lighted keys indicate active keys or functions such as the currently active waveform (for example, ).

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:

or press and hold the Help key for the Help Menu:

六 easy steps to learn the basics!

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5. 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.

6. 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
After a brief self test, the instrument turns on with the sine wave function selected and the Channel 1 tab (yellow) selected:

**Note:**
To protect your equipment, no signal is output until you press the **Off** or **On** button above the channel and then press **Output Off / On**. Pressing these channel buttons also brings the channel's tab into view.

2. **Turn On by Pressing**

To select a waveform, press the appropriate key. For example, press the **Square** softkey to select a square wave.

The square wave menu is displayed:

3. **Select a Waveform**

Use the six softkeys to select parameters.

For example, press the **Amplitude** softkey to select amplitude:

4. **Change Waveform Parameters (Knob)**

Now let's change the value using the knobs. Press, say, the same keys (e.g., 500), to set the first digit.

Now, use the knob to change the value. (maximum is increased; 0 is minimum) Set it to 500 mVpp:

5. **Change Waveform Parameters (Keypad)**

Now, press **Offset** to select that parameter:

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 F softkey to indicate that the offset unit is volts.

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.

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.)

Tip
Now let’s use the numeric keypad to set the **Frequency**.

Press the left softkey to select **Frequency**:

Other Helpful Tips
- **The Front Panel at a Glance**
- **Some Helpful Hints**
- **The Agilent 33500 Series built-in Help**
- **The Agilent 33500 Series User’s Guide**
- **The Agilent 33500 Series Service Guide**
- **The Agilent 33500 Series Programmer’s Reference Help**

Another Way to Set Signal Levels
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**NOTE TO PRINTER:**
This is FACE "B" (See folding diagram on page 1)

**NOTE TO PRINTER:**
This is FACE "C" (See folding diagram on page 1)

**NOTE TO PRINTER:**
This is FACE "D" (short face, folds inside)