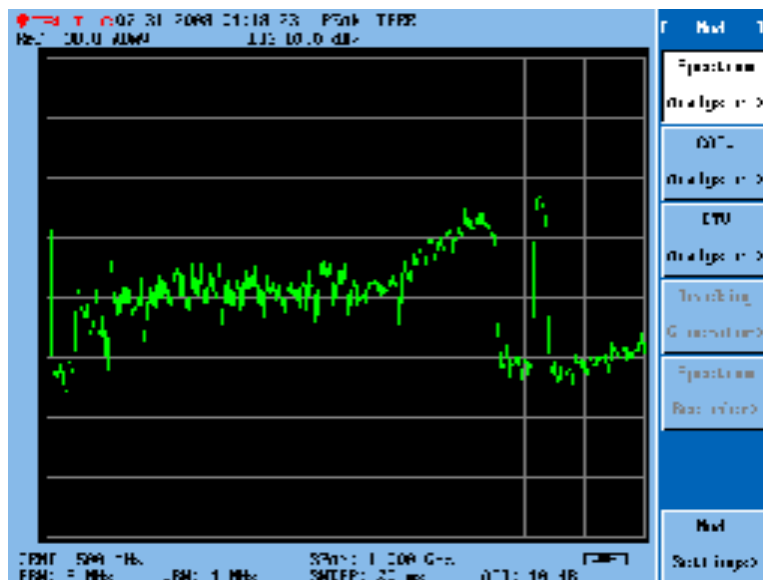


Introduction

The spectrum analyzer is accessed using the **MODE** Button that is located on the user interface, as shown in the following figure:

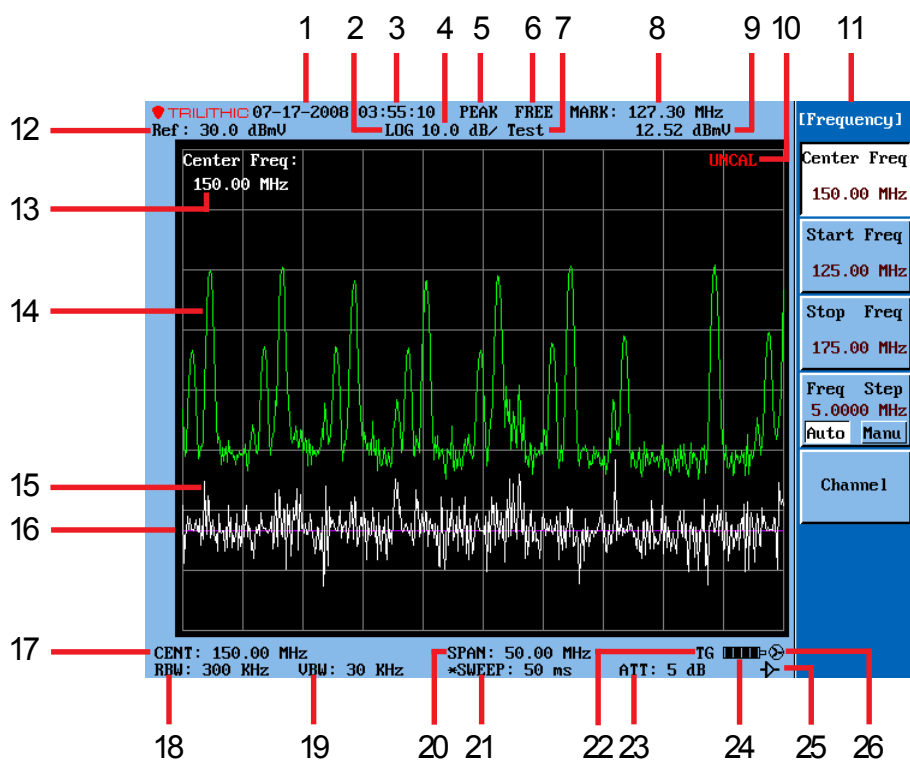


After pressing the **MODE** Button the **Mode Menu** will appear, and you can access the Spectrum Analyzer Mode by pressing the **Spectrum Analyzer** Softbutton:



Single Window Display Mode

Once the instrument has been turned on, the single window spectrum analyzer screen will be the default view of the instrument as shown below or you can press the **MODE** Button and select the **Spectrum Analyzer** Softbutton.



The following table describes the measurement information that is displayed in the Single Window Mode of the Spectrum Analyzer Screen.

Item	Annotation	Description
1	Date	Displays the current date. To adjust the date see: Section I: The Basics , Chapter 4: System Configuration, Time & Date Settings .
2	Log/Line Mode	Displays whether the amplitude is currently shown in either Logarithmic or Linear Mode. To adjust this setting see: Chapter 2: Basic Measurement Settings, Amplitude Settings, Log/Linear Scale .
3	Time	Displays the current time. To adjust the time see Section I: The Basics , Chapter 4: System Configuration, Time & Date Settings .
4	Amplitude Scale	Displays the current amplitude scale graduation. To adjust the amplitude scale see: Chapter 2: Basic Measurement Settings, Amplitude Settings, Scale/Div .
5	Detector Mode	Displays whether the detector mode is currently enabled. To enable/disable the detector mode setting see: Chapter 4: Basic Measurement Tools, Marker Tools .
6	Detector Type	Displays the type of detector that is currently enabled. To adjust this setting see: Chapter 4: Basic Measurement Tools, Peak Signal Search Tools .
7	Display Screen Title	Displays the current user-entered title of the display screen. To adjust this setting see: Section I: The Basics , Chapter 4: System Configuration, Display Screen Title .
8	Marker Frequency	Displays the frequency of the selected marker. To adjust the frequency of the selected marker see: Chapter 4: Basic Measurement Tools, Marker Tools .

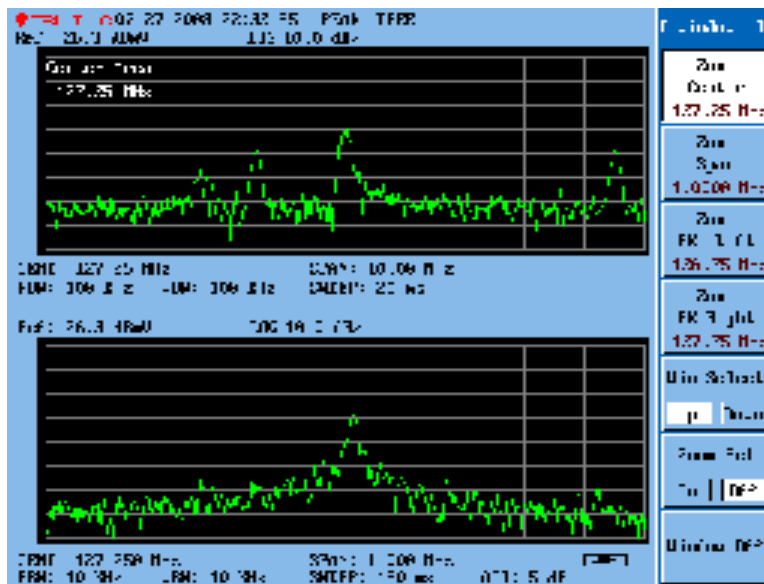
Item	Annotation	Description
9	Marker Amplitude	Displays the amplitude of the selected marker.
10	UNCAL Message	Displays that the measurement is in an uncalibrated configuration.
11	Soft-Menu	Displays the menu items within the current menu that can be selected by pressing the corresponding softkey to the right of the display screen.
12	Reference Level	Displays the current reference level. To adjust the reference level see: Chapter 2: Basic Measurement Settings , Amplitude Settings , Reference Level .
13	Active Function Area	Used to display the currently active function as well as user-entered values.
14	Waveforms	Displays the waveform that is currently being measured.
15	Display Line Delta	Shows change at the display line between the current waveform to the waveform that is memorized when the display line delta function is turned on. To enable the display line delta function see: Chapter 4: Basic Measurement Tools , Miscellaneous Measurement Tools , Display Line Measurement .
16	Position of Display Line	Shows the current value of the display line. To adjust the position of the display line see: Chapter 4: Basic Measurement Tools , Miscellaneous Measurement Tools , Display Line Measurement .
17	Center Frequency	Displays the currently selected center frequency of the display. To adjust the center frequency see: Chapter 2: Basic Measurement Settings , Frequency Settings , Center Frequency .
18	RBW	Displays the current resolution bandwidth frequency (RBW is preceded by an asterisk (*) when set in Manual Mode) To adjust the resolution bandwidth see: Chapter 2: Basic Parameter Settings , Bandwidth Settings .

Item	Annotation	Description
19	VBW	<p>Displays the current video bandwidth filter frequency (VBW is preceded by an asterisk (*) when set in Manual Mode).</p> <p>To adjust the video bandwidth filter frequency see: Chapter 1: Basic Parameter Settings, <i>Bandwidth Settings</i>.</p>
20	Span	<p>Displays the currently selected frequency span of the display.</p> <p>To adjust the center frequency see: Chapter 1: Basic Measurement Settings, <i>Span Settings</i>.</p>
21	Sweep Time	<p>Displays the currently selected time required to make a sweep of the display (SWEEP is preceded by an asterisk (*) when set in Manual Mode)</p> <p>To adjust the sweep time see: Chapter 1: Basic Parameter Settings, <i>Signal Sweep Settings</i>.</p>
22	Tracking Generator	<p>Displays whether the tracking generator (if installed) is currently enabled.</p> <p>To enable/disable the tracking generator see: Section III: Advanced Measurement Modes, Chapter 3: Tracking Generator.</p>
23	Attenuator Level	<p>Displays the current attenuator level (ATT is preceded by an asterisk (*) when set in the Manual Mode)</p> <p>To adjust the attenuator level see: Chapter 1: Basic Measurement Settings, <i>Amplitude Settings, Attenuation</i>.</p>
24	Battery/Charging Status	<p>Displays the voltage status of the battery including whether the battery is charging.</p>
25	Preamplifier Status	<p>Displays whether the amplifier is currently enabled.</p> <p>To enable/disable the preamplifier see: Chapter 1: Basic Measurement Settings, <i>Amplitude Settings, Preamplifier</i>.</p>
26	Fan Status	<p>Displays whether the internal fan is currently running.</p>

Double Window Display Mode

This function allows you to view the integral information of the signal in one window while observing the details in the other window.

After pressing the **WINDOW** Button, two windows of the same size, which are shown in the following figure will appear:



The upper window shows the wide BW signal information; the parameter settings of this window are the same as the single window. The lower window shows the information of the zone plotted by two blue lines. The two windows can use different settings. Therefore, the lower window can be the stretched version of the upper window (when the two blue lines are set in the sweep span of the upper window). The two windows can work separately as well. The start and stop frequency of the lower window can be set outside the sweep span of the upper window. At that time, the two blue lines will lay at the leftmost or rightmost side of the upper window.

The spectrums can be changed to be viewed in different settings, but only one of the window settings can be changed at a time. This window is called the active window, and is designated by the **Win Select** Softbutton highlighting **Up** or **Down**.

Parameters of the two windows can be set separately including reference level, sweep span, RBW, VBW, sweep time, center frequency, etc.



Note: Window function will be available only when the instrument is in Spectrum Analyzer mode.



Zone Selection

Zone selected operations include Zone Center, Zone Span, Zone PK Right and Zone PK Left. The span and frequency of the lower window will change with the change of the zone.

ZONE CENTER

The center frequency of the lower window will change with the change of Zone Center, while the span of it will be unchanged.

There are two ways to change the Zone Center:

1. Press the  or  Button: the step is 1/10 of the span.
2. Rotating the knob: the step is 1/500 of the span.

You can use the same method to change Zone Span, Zone PK Right and Zone PK Left.

ZONE SPAN

The span of the lower window will change with the change of Zone Span. In some cases, changing Zone Span will cause the RBW, VBW and sweep time changes of the lower window.

ZONE PK RIGHT/LEFT

Pressing the **Zone PK Right/Zone PK Left** Softbutton will change the right/left limit of the zone.

Window Switch

Pressing **Win Select** will activate the window you need.

Zoom Selection

After setting the **Zoom Sel** to **On**, you can zoom the active window to full screen.

