

Quick Reference Guide



WaveJet 300A Series Oscilloscopes

To get started quickly, take a few moments to read through this guide.

Additional information can be found in the Getting Started Manual.

On-line help also contains more information on using the instrument.

917103-00 RevA

Understanding Display Information



of Sample

Points

Choose between

Real Time Clock and

Trigger Time Stamp

Any necessary message will be displayed here

Counter

Displays frequency

of triggered signal

Vertical and **Horizontal Controls**

Press Knob -

to togale between zero delay and new setting.

Light On -

Indicates that the vertical controls will adjust that channel (the active channel).

Light Off

Channel may or may not be displayed, vertical channels will not adjust that channel

Math -

Turns on the Math trace and accesses the Math menu.



Press Knob to togale between zero delay and

Ouick Zoom Press to turn on zoom traces in a separate grid.

Setup

Press to access the Timebase Setup menu.

If All Channel Lights are Off

Then the horizontal and vertical controls are "active" for a Math trace or zoom trace. If the Zoom light is on then the horizontal controls will adjust the zoom trace. If the Math light is on both the horizontal and vertical controls will adjust the Math trace.



Trigger Controls



Using Cursors

Use the Adjust knob to position the cursors. Press the knob in to select between cursors or to set the two cursors to track together.



Press to turn cursors on, toggle through the cursor types, and then turn the cursors off. Choose between Time, Amplitude, Time & Amplitude, and Value at Cursor.

When light is on the Adjust knob controls the cursor position.

Δt=1.01ms 1/Δt=990Hz

Horizontal cursor information is located in the bottom status bar directly below the waveform grid.



When Time & Amplitude cursors are used the readout is displayed for both cursor types.



Setting Up Measurements



Press the front panel Measure button to access the Measure menu and turn the measurement parameters on. Press it again to turn the parameters off.



2.920ns (M

9.500ns(Max)

Measurement

4 Period

B: 4 +Pulse Width

Tr 10-90%

C:4 +Overshoot

Source

D: 1

Measurement

3. 580ns

Parameter

Zoom Your Signals



Press the front panel Quick Zoom button to zoom all displayed traces including Math.



Original display before pressing the Quick Zoom button.





After Quick Zoom is pressed the zoom traces are displayed in a separate grid.

Use the delay and Time/Division control to change the zoom factor and portion of the waveform you are zooming.



Setting Up Math



Press the front panel Math button to turn on the Math trace and access the Math menu.



Selects the source for the math trace, it can be any of the 4 channels.

Select between the 4 available Math functions: sum, difference, product, ratio, FFT

Select FFT Window Type



When the Math light is on, use the horizontal and vertical controls to adjust the scale and position of the Math trace.



Setting Up Reference Waveforms The Math trace appears on the display with Math trace descriptor box.

Saving Reference Waveforms



Press the front panel REF button to access the Reference Waveform menu.



Select between 5 different Reference waveforms.

Turn the Reference waveform on or off.

Select the source for the waveform to save; select from 4 channels and the Math trace.

Recalls the oscilloscope settings from when the Reference waveform was originally saved.

Saves the waveform to Reference memory.



Reference Waveforms are displayed in white on the waveform grid.

Documenting Results

WaveJet provides a front panel USB port for a quick and easy way to save waveforms, screen captures, and setups.



Connect a USB memory device to the front panel USB port.



The rear panel USB port allows for printing screen captures and can also be used for remote control from a computer.



Press the front panel Print button to store a screen capture to a USB memory device.

Set user preferences in the Utilities menu to select file type, file name, and background color.



Press the front panel Save/Recall button to access the Save/Recall Menu.

In this menu save waveforms to USB memory in either ASCII or binary formats, and save and recall setup files from internal memory or from USB memory.

The Save/Recall menu is where the selection to recall the Default Setup is located.

Using Replay



Stop the trigger, then press the Intensity knob to turn on Replay mode; the light will turn on.

Once in Replay, rotate the knob to look back at the history of acquisitions to isolate runts, glitches, or other abnormalities.

The display shows a runt pulse along with a lot of variation in overshoot and undershoot.





Activate Replay to view each acquisition individually on the display.







Up to 1024 acquisitions can be viewed with Replay.



Rotate the knob to scroll through each acquisition.

Thank You for Purchasing a WaveJet Oscilloscope.

To offer comments or suggestions about the product, please feel free to email the Product Manager at WaveJet@lecroy.com



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