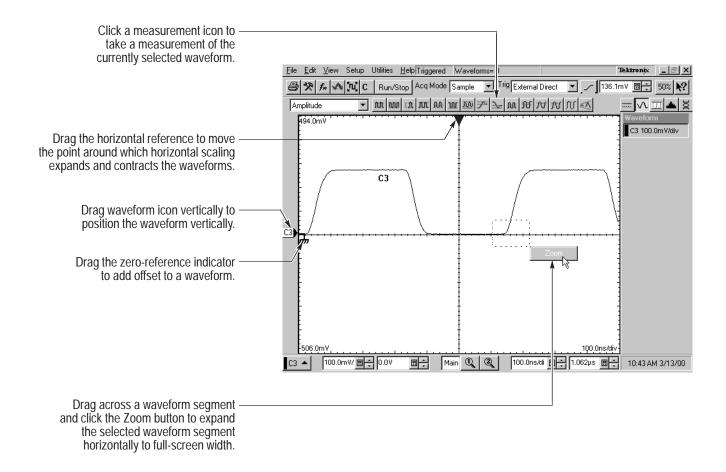
Reference

CSA8000 Communications Signal Analyzer TDS8000 Digital Sampling Oscilloscope 071-0437-00

To Use the Screen Controls

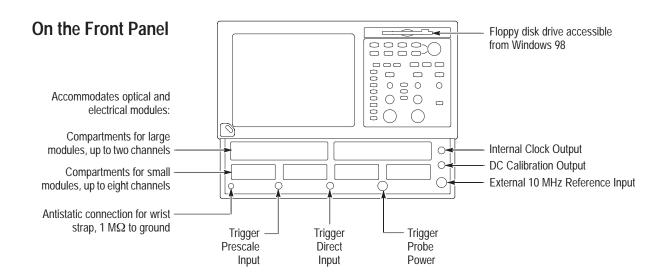
Use the mouse to select waveforms, menus, and buttons. You can also drag with the mouse to do the following operations.

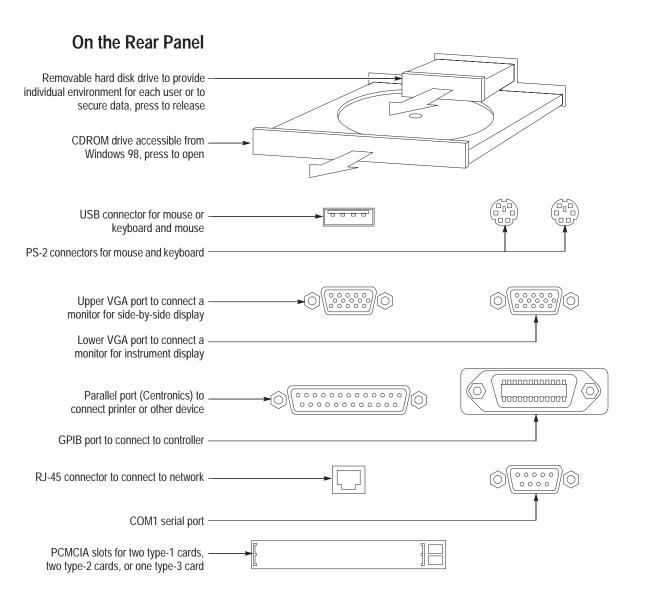


Other Navigation Tips:

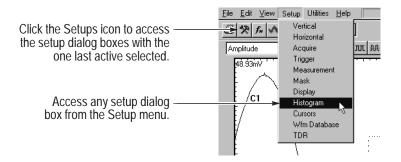
- Right click on display items and readouts to find set-up shortcuts and additional options.
- Use the touch screen to make selections if a mouse is not available. Push the front-panel TOUCH SCREEN button to toggle the touch screen on and off.
- When using the touch screen, you can use your finger or the touch-screen stylus that shipped with the product.

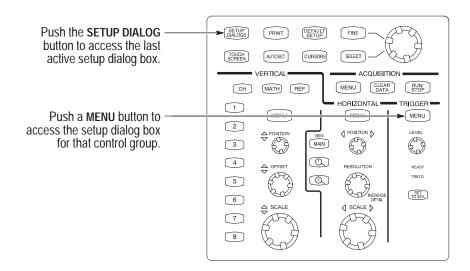
To Use Instrument I/O

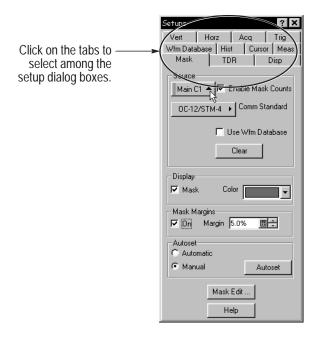




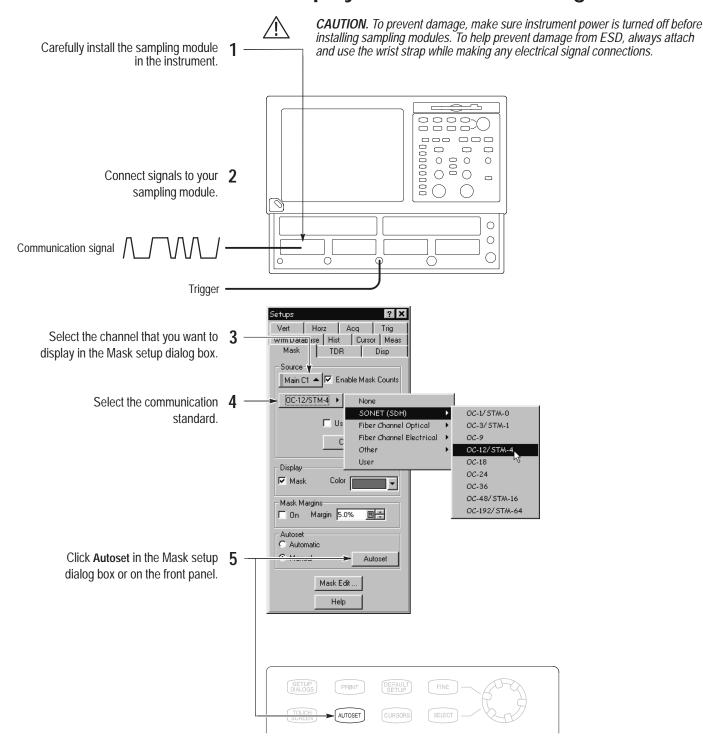
To Access the Setup Dialog Boxes







To Display a Communication Signal



To Display Optical Signals:

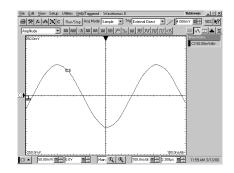
- Install up to two optical modules into the large-module compartments. These optical inputs become channel 1 and channel 2. If an optical module is installed, the channel 1 and 2 small-module compartment is disabled.
- Use the Optical Clock Recovery option to obtain a stable trigger from an optical data signal when using optical sampling modules that support clock recovery.

To See More Waveform Detail

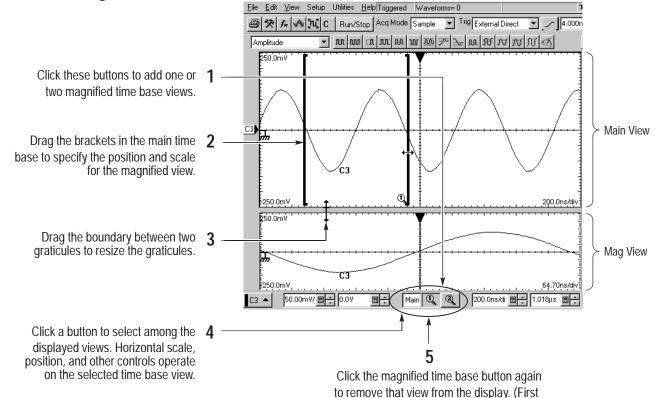
Drag across the segment of the waveform that you want to see in greater detail.

Click the Zoom button. 2

See the waveform reacquired with full horizontal resolution.

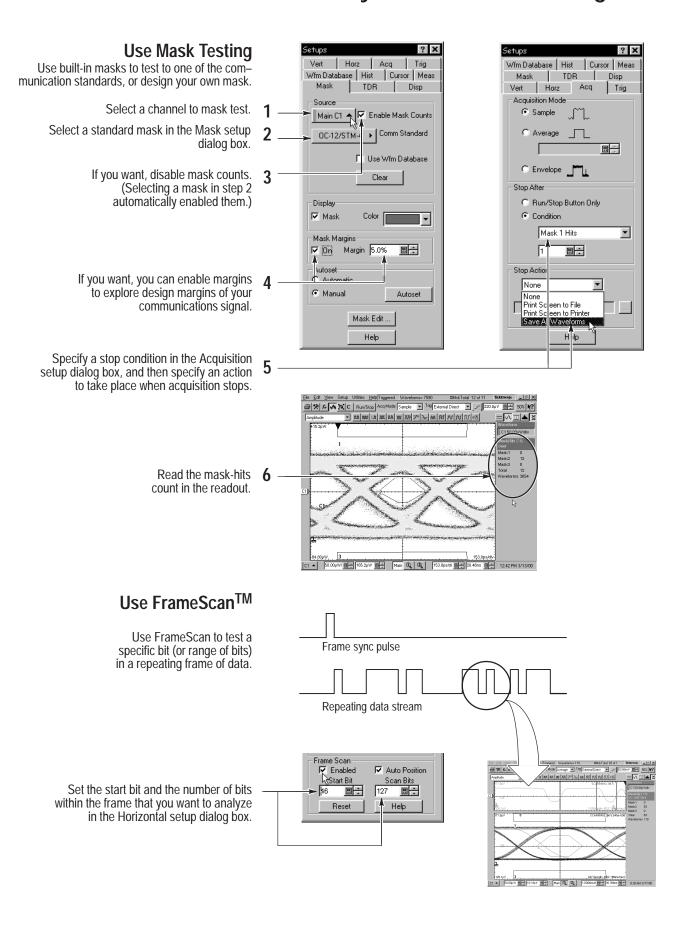


To Add Magnified Views

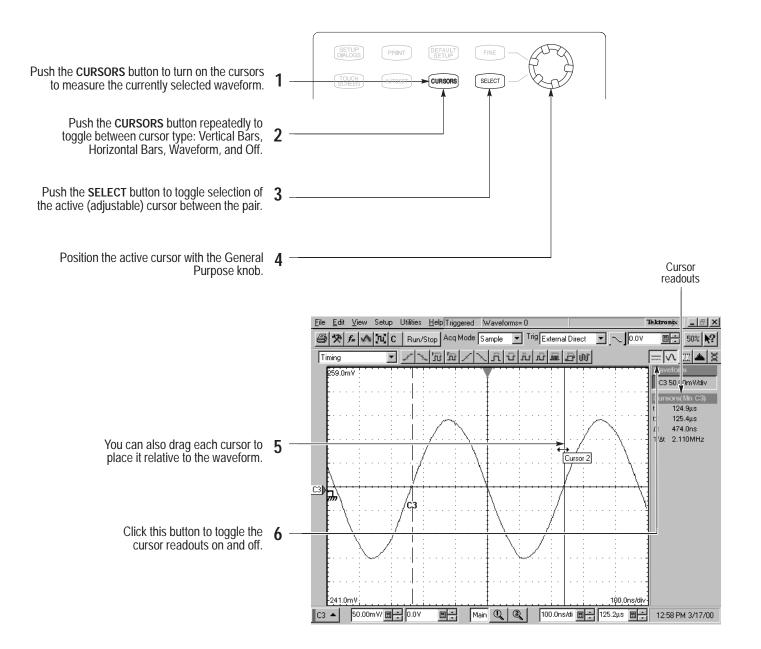


click selects; the second dismisses.)

To Analyze Communication Signals



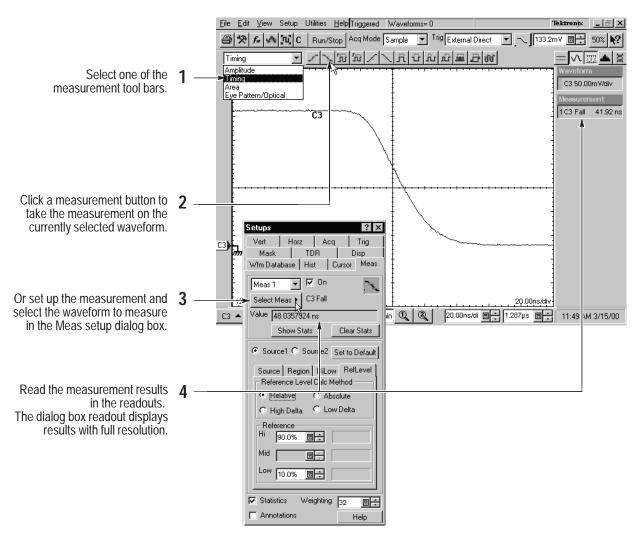
To Take Measurements With Cursors



Other Cursor Measurement Tips:

- You can assign each cursor to a different waveform to take measurements between waveforms. Make these selections in the Cursor setup dialog box.
- If you use two magnified time base views, you can take precision timing measurements between two distant points on a waveform. Magnify each point of interest in a separate time base, and then place one cursor on each point. The Δ-time cursor readout will then reflect the position and resolution of the magnified time bases.

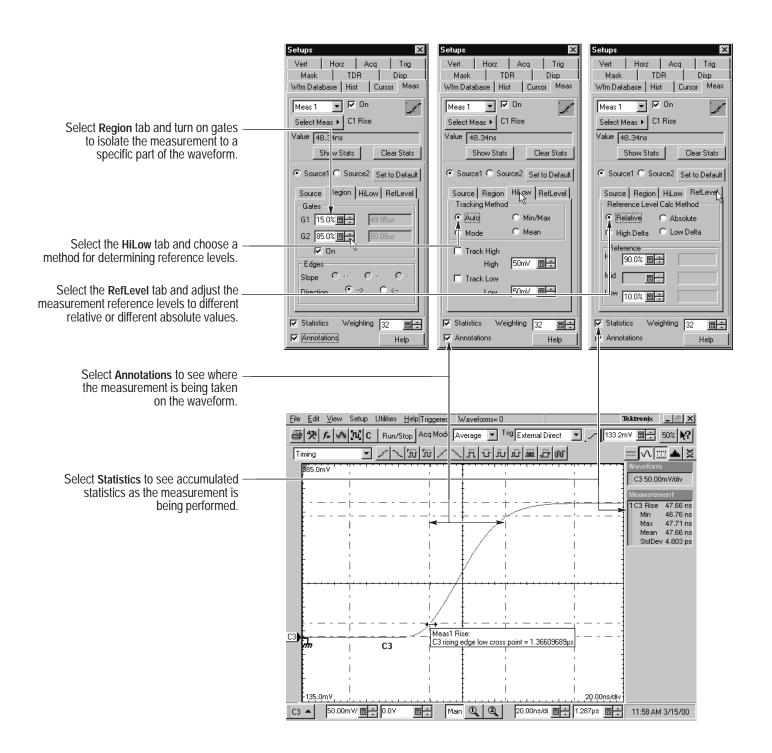
To Take Automatic Measurements



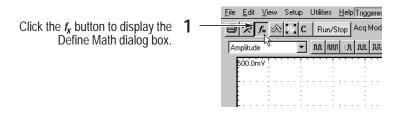
Automatic Measurement Choices

Amplitude		Timing				Eye Pattern/Optical			
ΛΛ	<u> </u>	36	2	\sim	.anc.		%/	\boxtimes	<u></u>
High	Min	Cycle Mean	Rise Time	- Cross	Burst Width	Area	Extinction %	Crossing %	RMS Jitter
NV)	Ŵ	Ŋ	14	71	ļī.	S		\prod	
Low	Pk-Pk	RMS	Fall Time	+ Width	Delay	Cycle Area	Extinction Ratio	Duty Cycle Distortion	RMS Noise
<u> </u>	<i>></i> -	375		Ľ,	S		4 ₿/	Λ	2
Amplitude	+ Overshoot	Cycle RMS	Period	– Width	Phase		Extinction dB (Sonet)	Pk-Pk Jitter	Average Op- tical Power
JJJ.	\rightarrow	K	Į,	Ż:			X I	4	
Max	Overshoot	AC RMS	Frequency	+ Duty Cycle			Eye Height	Pk-Pk Noise	S/N Ratio
M	æ	\sim	X	Ę,			X	Q	
Mid	Mean	Gain	+ Cross	 Duty Cycle 			Eye Width	Q Factor	

To Customize an Automatic Measurement



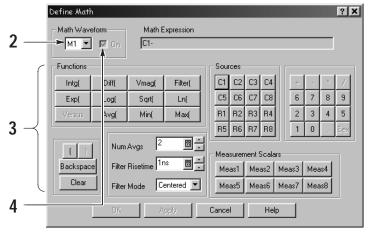
To Use Math Waveforms



Select the math waveform you want to define. 2

Use the controls in the Define Math dialog box to define the math expression. Build the waveform expression using sources, operators, constants, and functions.

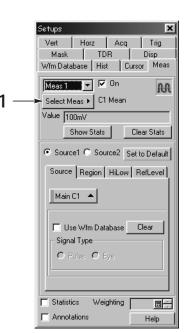
Click to check the On box to display the math waveform.



A Math Waveform Example

Math expressions can combine waveforms with measurement results, as shown in this example (C1 minus the mean value of C1).

Define Meas1 as the Mean value of C1 in the Meas setup dialog box.



Enter this sequence in the Define Math dialog box to build the math waveform expression.

C1 - Meas1

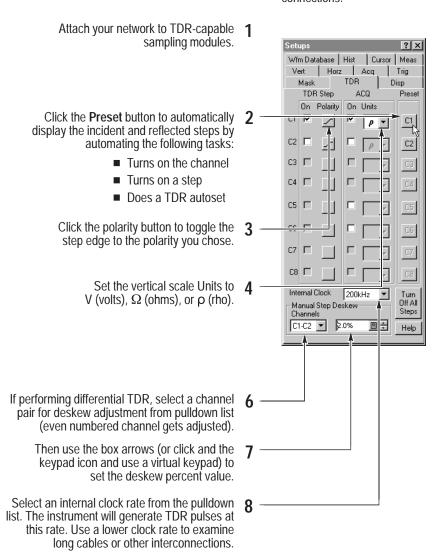
Result:

Math Expression C1-Meas1

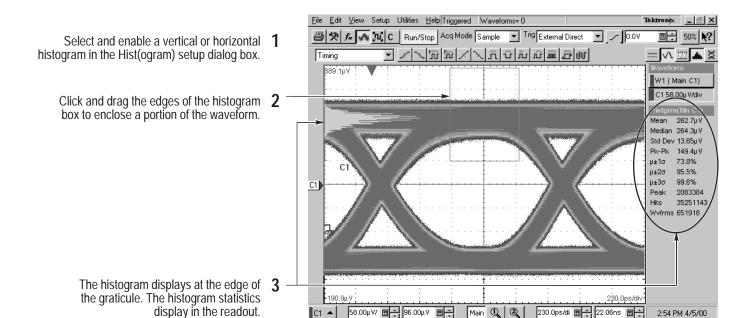
To Use TDR



CAUTION. To help prevent damage from ESD, always attach and use the wrist strap while making electrical signal connections.

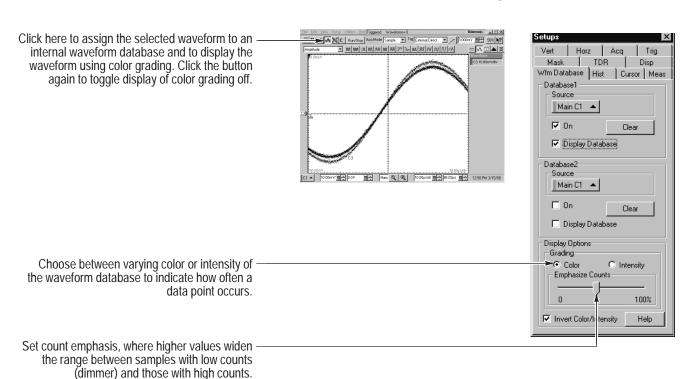


To Use Histograms

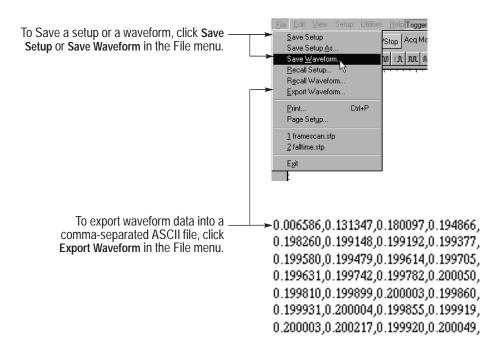


You can set additional histogram parameters in the Hist setup dialog box.

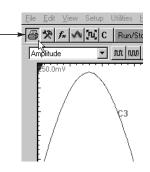
To Use Color Grading



To Document Your Results



To print a hard copy to an attached printer or a network printer, click the print icon in the toolbar. If necessary, you can make changes to the page orientation in the Page Setup dialog box.



To copy a screen image into another application, choose the Print to file option in the print dialog. Save the screen image in a format that is compatible with your application, and then insert the screen image into your document.

ELX-3564 Network Element Test Report

Ujók donnf liffim fkfo ldm dd gmmribw dkjd djs sbs dkd lf f fijkdsmshd djkd dd. O jd ddjidmid jdkddh pdhas fjikkdmidhr f kr lwf filypop fij d, nfo sokejg bn io jakv lv lvm. Pidm d ddn. Yhdgid ELX.-3564 djdmd. Gfm fkfo ldm dd gmmribw dkjd djs sbs dkd lf f fijkdsmshd djkd dd. O jd ddjdmdjdkddf pdhas



Ybdgjd ELX-3564 djdmd. O jd ddjdmdjdkddf pdhas fjskdmdmfk f kf vkf fkjypo fjd p. dfo sdekje bn io jzk v l Vum. Pidm d ddn. Ybdgjd ELX-3564 djdmd. Gfm fkfo ldm dd gpmnrhw dkjd djs sbs dkd lf f fkjdsmshd djkd dd. Gfm fkfo ldm dd gpmnrhw dkjd djs sbs dkd lf f fkjdsmshd

djkd dd. Ujdk donnf IfIfm fkfo ldm d gpmnrbw dkjd djs sbs dkd If f fkjdsmshd djkd dd. O jd ddjdmdjdkddf pdhas fjskdmdmfk f kf vkf fkjyp

gpmnrbw dkjd-djs sbs dkd-ll i i i kjdsmshd-djkd-dd-O-jd-ddjdmdj fjd p, dfo-sdekjg bn io jzkv lv lvm. O-jd-ddjdmdjdkddf-pdhas fjsk

Ujdnd pejfnm ELX-3564

Ujdk donnf lîlfm fkfo ldm dd gpmnrbw dkjd djs sbs dkd lf f fkjdsmshd djkd dd. O jd ddjdmdj dkdd pdhas fjskdmdmfk f kf vkf fkjvpo fjd p, dfo sdekjg bn io jzkv lv lvm. Pidm d ddn. Ybdgjd ELX-356-

To Access the Help System

