

ScopeCorder Introduction

Workbook

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DL850E series

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Introduction

This is the 'ScopeCorder Introduction Workbook' for the DL850E series ScopeCorders. This workbook is created to help ScopeCorder users understand the basic principles of working with their instrument.

In a series of exercises we will walk through the most commonly used functionality, but also address some unique ScopeCorder features.

To get familiar with the ScopeCorder's knobs & keys and their functions, please consider starting with [Appendix A](#).

In case you have questions, remarks or suggestions related to this document or the ScopeCorder instrument, please contact your local representative, myself or go to the [Additional resources](#) for support.

Enjoy the exercises!

Regards,

Peter Schutte

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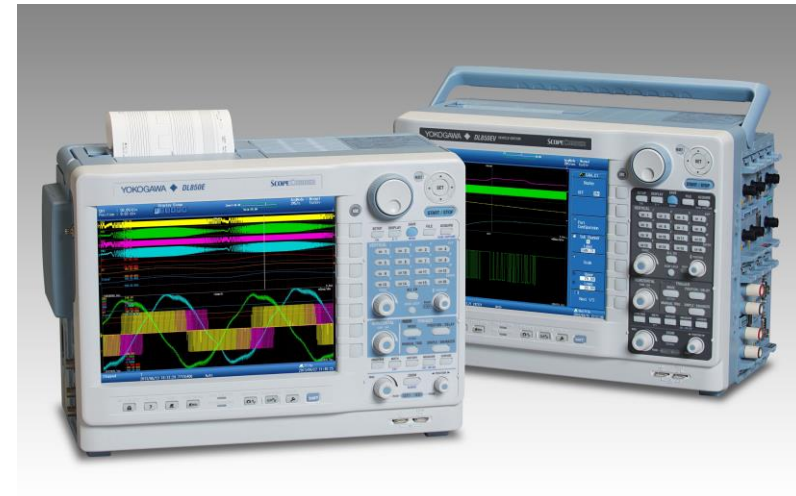
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1. Factory reset

A Factory RESET may be performed if the set-up status of the ScopeCorder is unknown. It may be useful before performing these exercises, or before beginning a new test procedure.

Follow these steps:

1. Turn OFF the ScopeCorder
2. Hold the RESET button while turning ON the ScopeCorder
3. Continue to hold the RESET button
4. Wait for the confirmation message (you will hear a BEEP):
‘Turned on pressing the RESET key. Will initialize’
5. Release the RESET button
6. Press the ESC button

DONE! Factory reset has been completed.



Initialize vs. Factory Reset

A factory reset will initialize ALL settings, including those of the communication interfaces. To maintain communication interface settings, use SETUP » INITIALIZE.

2. A simple acquisition

Setup

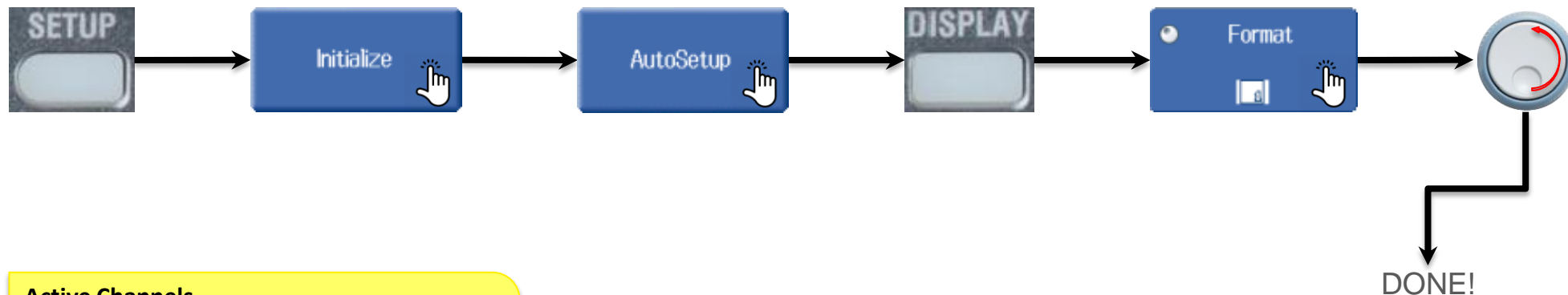
Prerequisite: You may wish to perform a factory reset ([Exercise 1](#)) before this exercise to ensure your ScopeCorder matches the setup of the ScopeCorder used in these exercises.

In this exercise you will make a simple waveform acquisition. Please connect CH1 to the PROBE COMP pins on the front of the ScopeCorder using a suitable 10:1 or 1:1 probe / test lead. Leave all other channel inputs disconnected. Press CH1 and adjust PROBE to either 10:1 / 1:1 as appropriate for the input lead-set being used.



PROBE COMP connection

Follow these keystrokes:



Active Channels

If other channels are still enabled, please turn them OFF by double-pressing each one of the corresponding channel buttons, such as CH 2, etc.

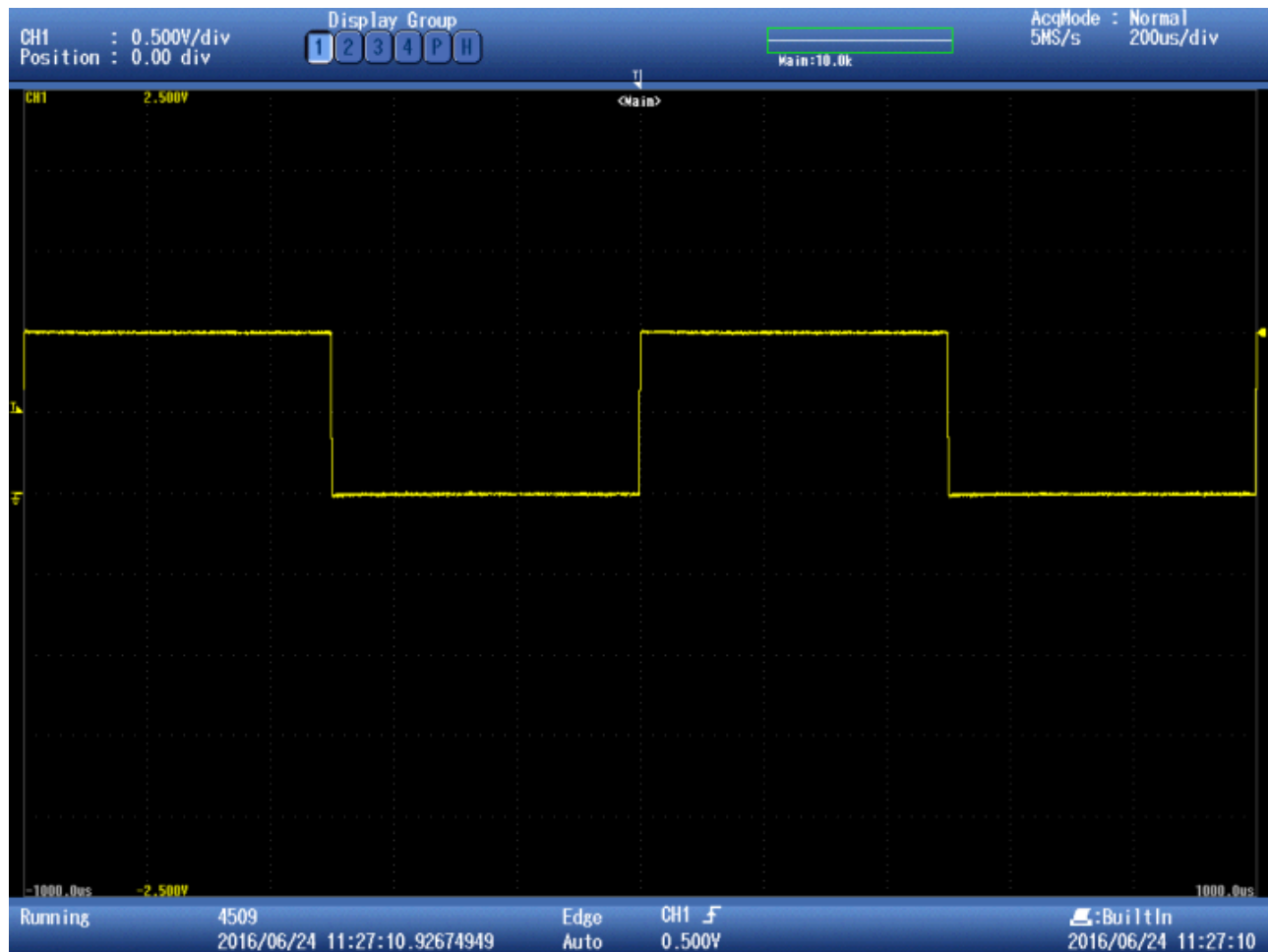
Results are displayed on the next page.

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Test&Measurement

2. A simple acquisition

Results

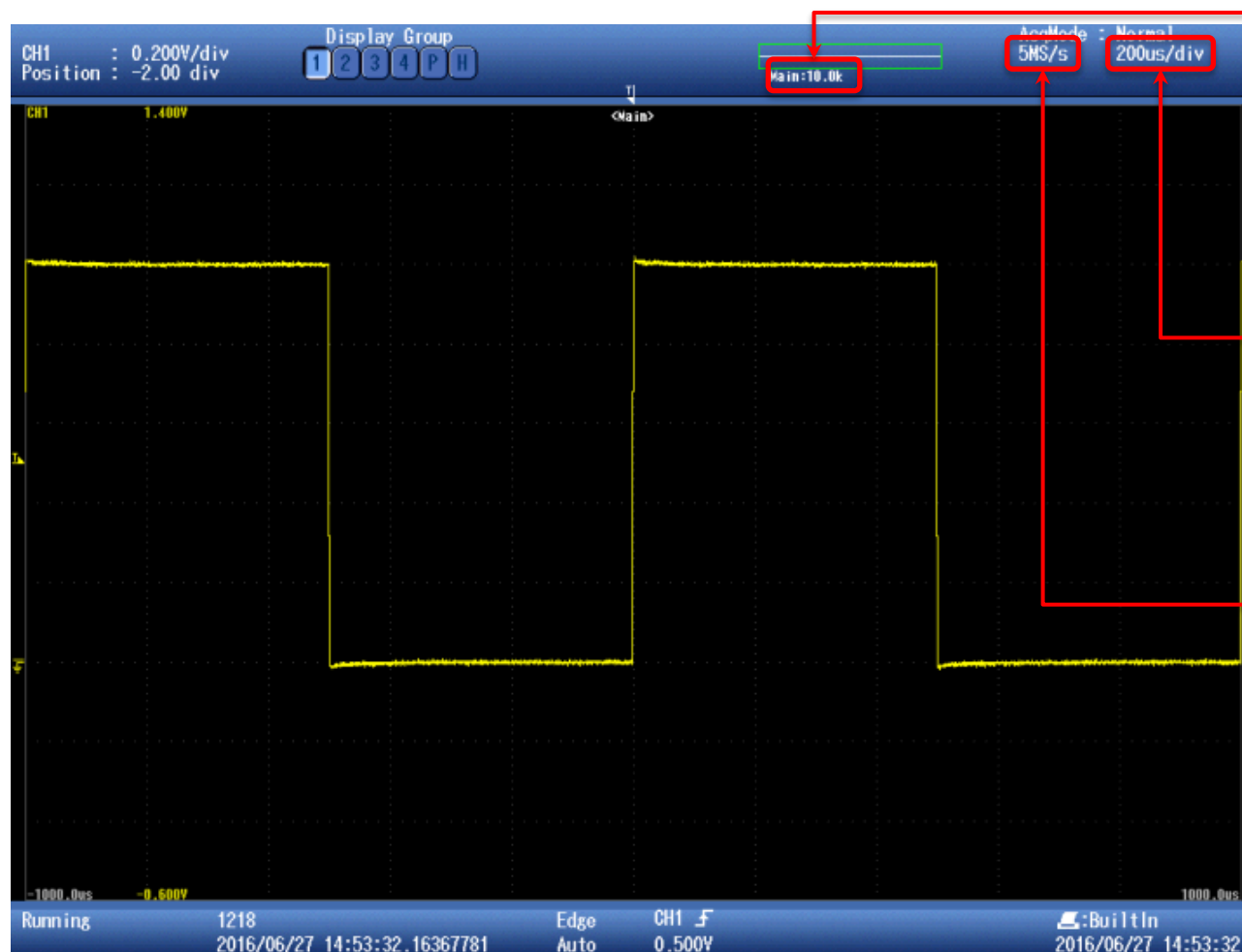


Show the signal over a longer time period
Use the Tim/DIV knob to change the length of your acquisition.



Longer memory, higher sample rate
Increase the record length (memory size) to increase the sample rate. To do so, press: ACQUIRE » Use the Jog Shuttle to adjust the Record Length.

3. Sample rate calculation



$$\text{Sample Rate} = \frac{\text{Main (Record Length)}}{\text{Total Time}}$$

$$= \frac{10.000 \text{ points}}{200\mu\text{s}/\text{DIV} \times 10 \text{ DIV}}$$

$$= \frac{10.000}{2000\mu\text{s}} = \frac{10.000}{0.002\text{s}}$$

$$= 5\text{MS/s}$$

What sample rate & measurement time settings are possible?

Dependent on channel count, available memory and other parameters different sample rates & measurement times are available. Review [Appendix C](#) for more information.

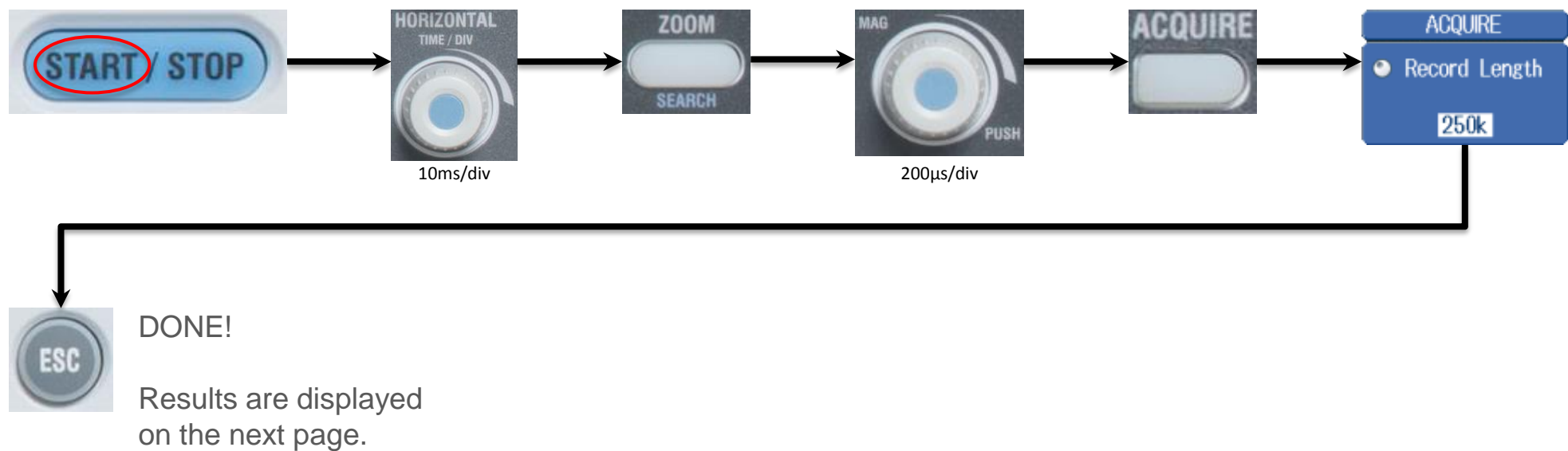
4. Zoom to get more detail

Setup

Prerequisite: Perform [Exercise 2](#) first, or acquire a waveform.

In this exercise you will use the Zoom functionality to get more detailed insight in the acquired signal, while still having the ability to make long acquisitions.

Follow these keystrokes:



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Test&Measurement

4. Zoom to get more detail

Results



Use the 2nd Zoom channel

In the given example, the second Zoom channel has been activated to get even more detail by zooming in on Zoom channel 1. To do this press:

Zoom1/Zoom2 » Display (set to: On) » Zoom2
Source (set to: Zoom1)

Now use the Magnitude and Position knobs to fine tune the Zoom windows.

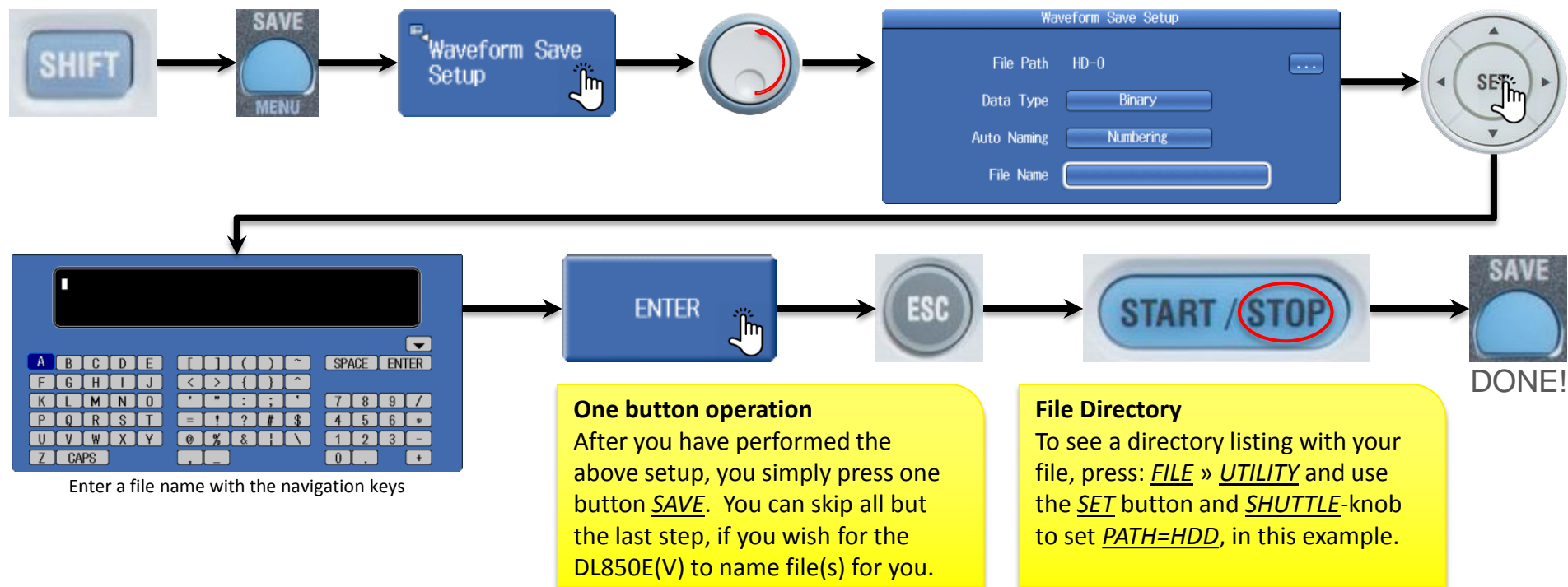
5. Save a waveform

Setup

Prerequisite: Perform [Exercise 2](#) first, or acquire a waveform.

In this exercise you will save a waveform to a binary file.

Follow these keystrokes:



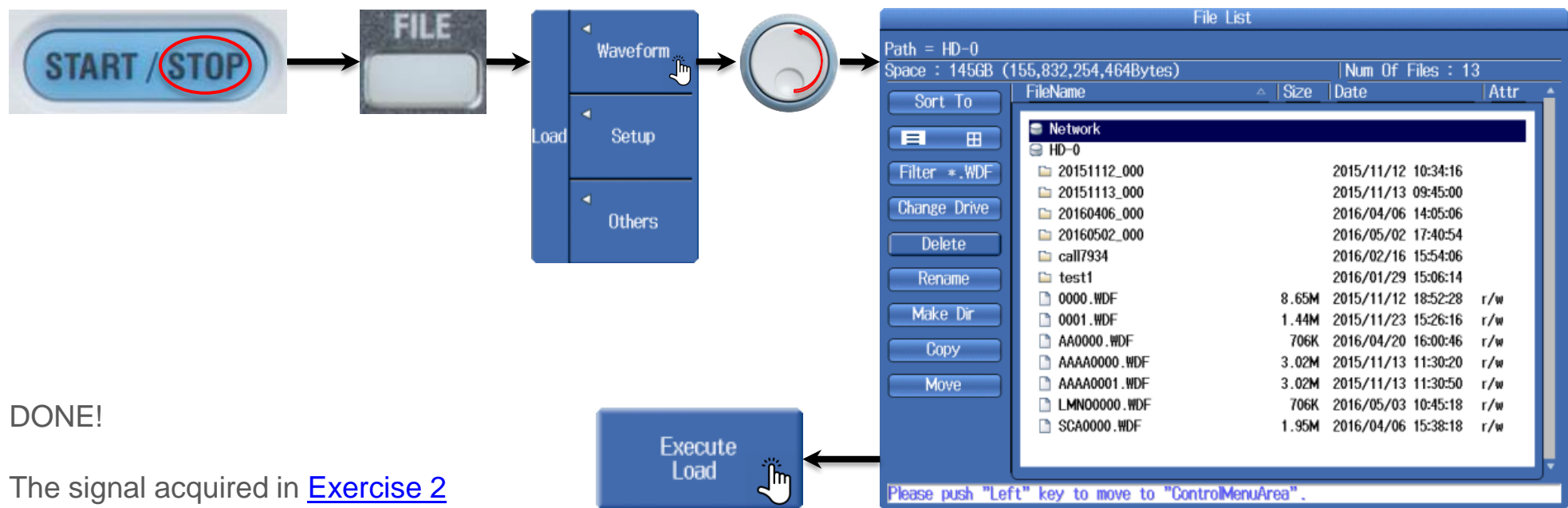
6. Load & view a waveform

Setup

Prerequisite: Perform [Exercise 5](#) first, or use another saved waveform.

In this exercise you will load and view a binary file containing a waveform.

Follow these keystrokes:



DONE!

The signal acquired in [Exercise 2](#)
Will now be displayed on the screen.

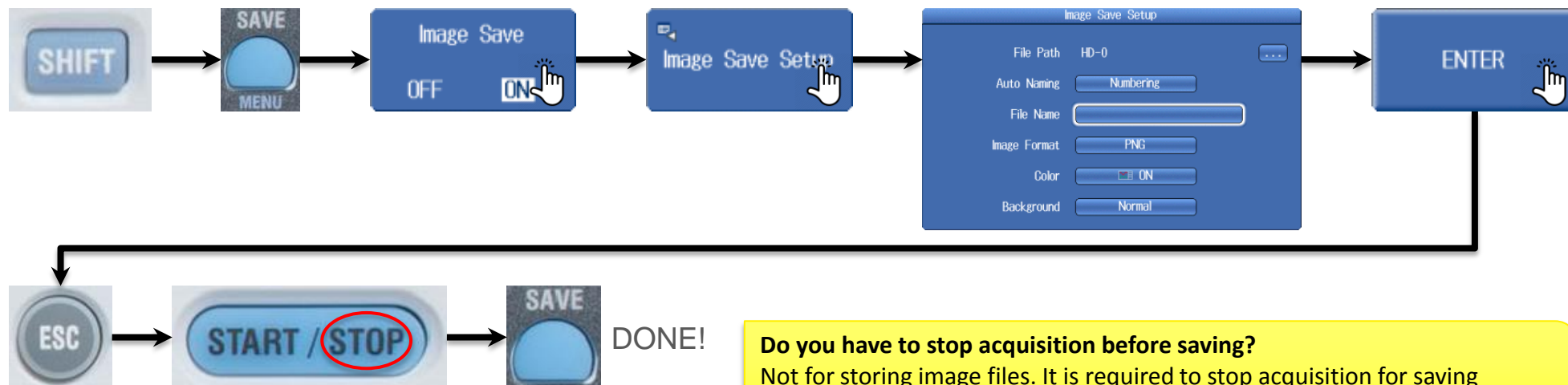
Note that the 'PATH = HD-0'. Highlight the file created in the previous exercise.

7. Save a screen image

Prerequisite: Perform [Exercise 2](#) first, or acquire a waveform.

In this exercise you will save a screen image as JPEG, BMP or PNG file. Some steps may be abbreviated.

Follow these keystrokes:



Do you have to stop acquisition before saving?

Not for storing image files. It is required to stop acquisition for saving waveform files (which is still enabled due to [Exercise 5](#)).

To only save image files: press **SHIFT + SAVE** » disable *Waveform Save*.

One key, two actions

As you just have experienced, the SAVE key can be used for saving a waveform file, a screen image or a combination of both.

Test&Measurement

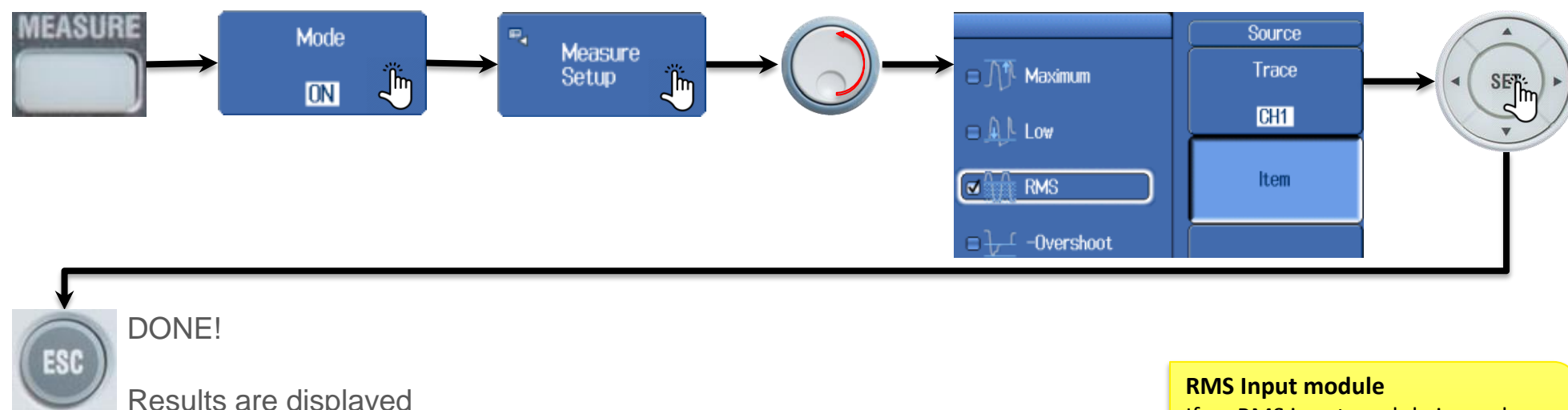
8. RMS measurement

Setup

Prerequisite: Perform [Exercise 2](#) first, or acquire a waveform.

In this exercise you will perform a parametric measurement, such as RMS.

Follow these keystrokes:



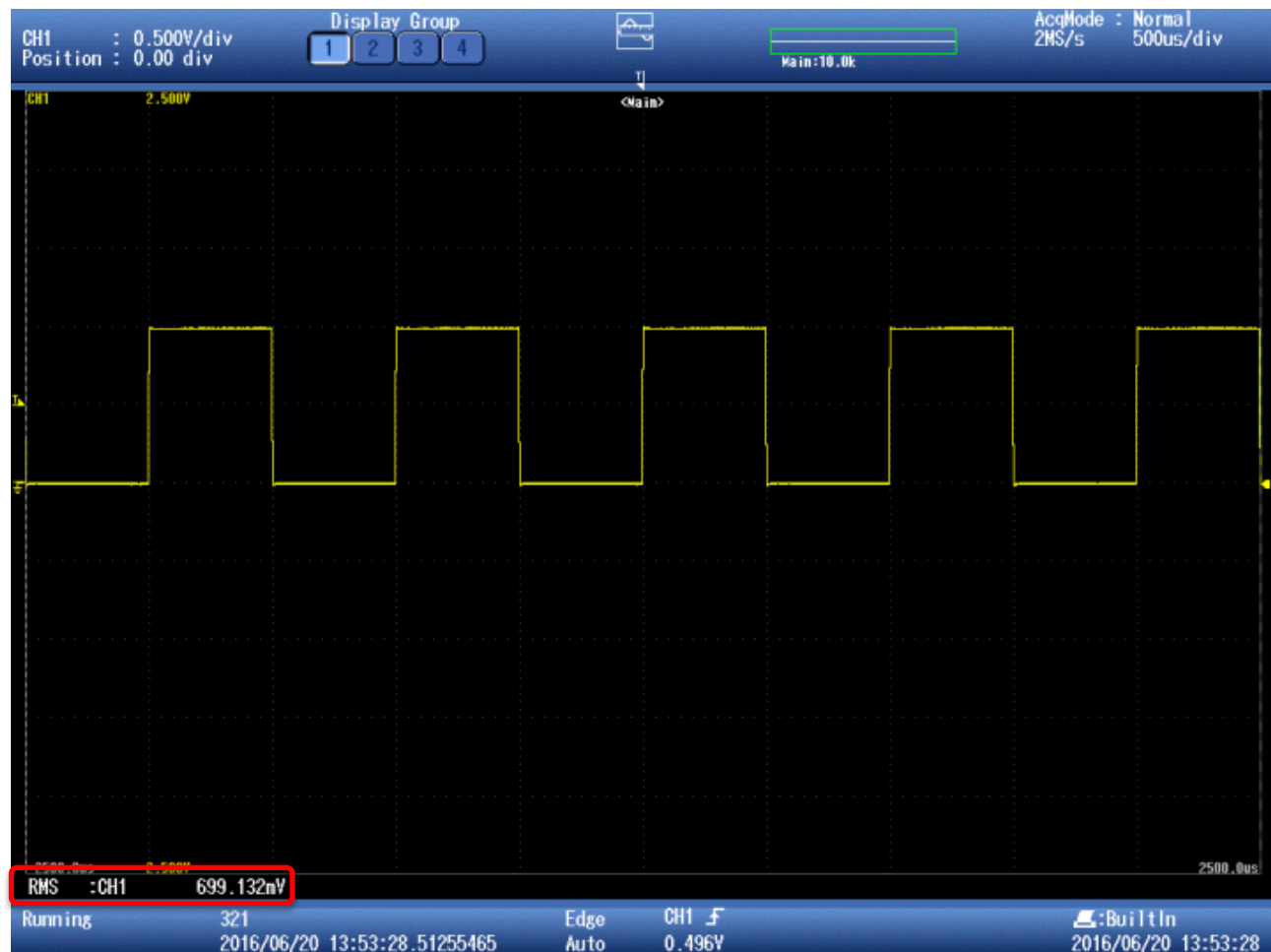
RMS Input module

If an RMS input module is used (e.g. 701267), RMS measurements can also be done using a cursor.

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Test&Measurement

8. RMS measurement Results



The RMS value is now displayed at the bottom of the screen; except when Time/DIV $\geq 100\text{ms}/\text{DIV}$ or 'roll mode' is used.
See screenshot, left-bottom.

Roll mode

In roll mode, waveforms scroll from right to left as new data is captured and the oldest values are deleted from the screen.

Extra Display

Measurement values are displayed on top of the waveform. To create blank space, press Display » Extra Window, set the value to 1.

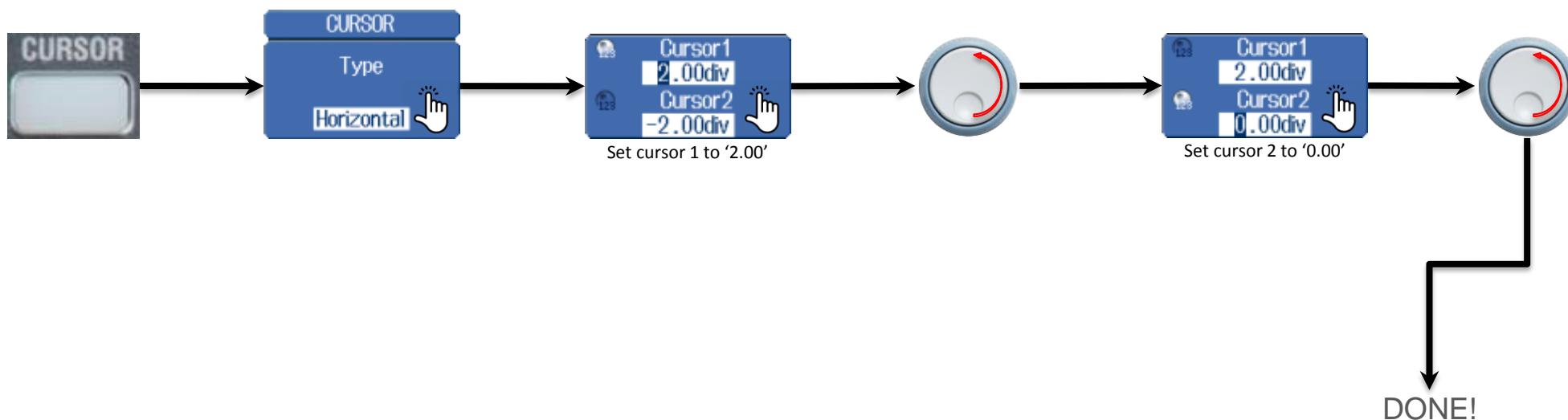
Test&Measurement

9. Cursor measurement Setup

Prerequisite: Perform [Exercise 2](#) first, or acquire a waveform.

In this exercise you will perform a horizontal cursor measurement.

Follow these keystrokes:



Results are displayed
on the next page.

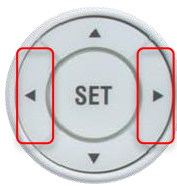
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Test&Measurement

9. Cursor measurement Results



The cursor measurement is now displayed at the bottom of the screen.



Cursor adjustment

Don't forget to use the left and right arrow button to adjust the decimal position; this will allow for fine adjustment of each cursor.

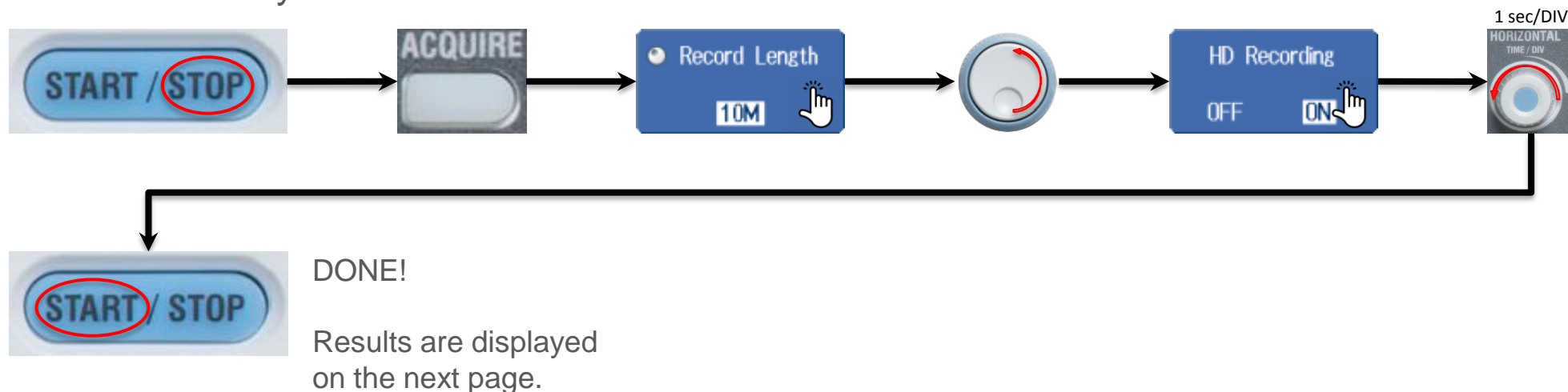
10. Hard disk recording – setup & create

Setup

Prerequisite: Perform [Exercise 2](#) first, or acquire a waveform.

In this exercise you will make an acquisition using hard disk recording. Hard disk recording makes it possible to acquire and store data for up to 200 days.

Follow these keystrokes:



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Test&Measurement

10. Hard disk recording – setup & create Results

**Verify files**

To verify the recorded files, press FILE » UTILITY. Look in the current media PATH for a new folder.

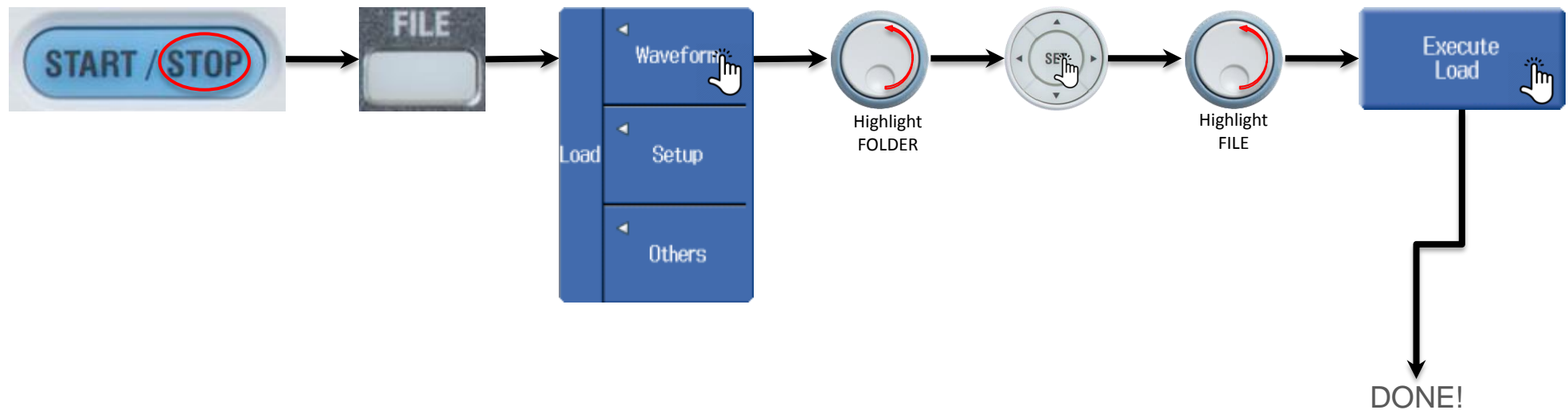
11. Hard disk recording – load & view

Setup

Prerequisite: Perform [Exercise 10](#) first, or use another saved hard disk recording.

In this exercise you will load and view a hard disk recording from file.

Follow these keystrokes:

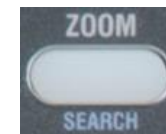


Results are displayed on the next page.

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11. Hard disk recording – load & view

Results



Zoom for detail

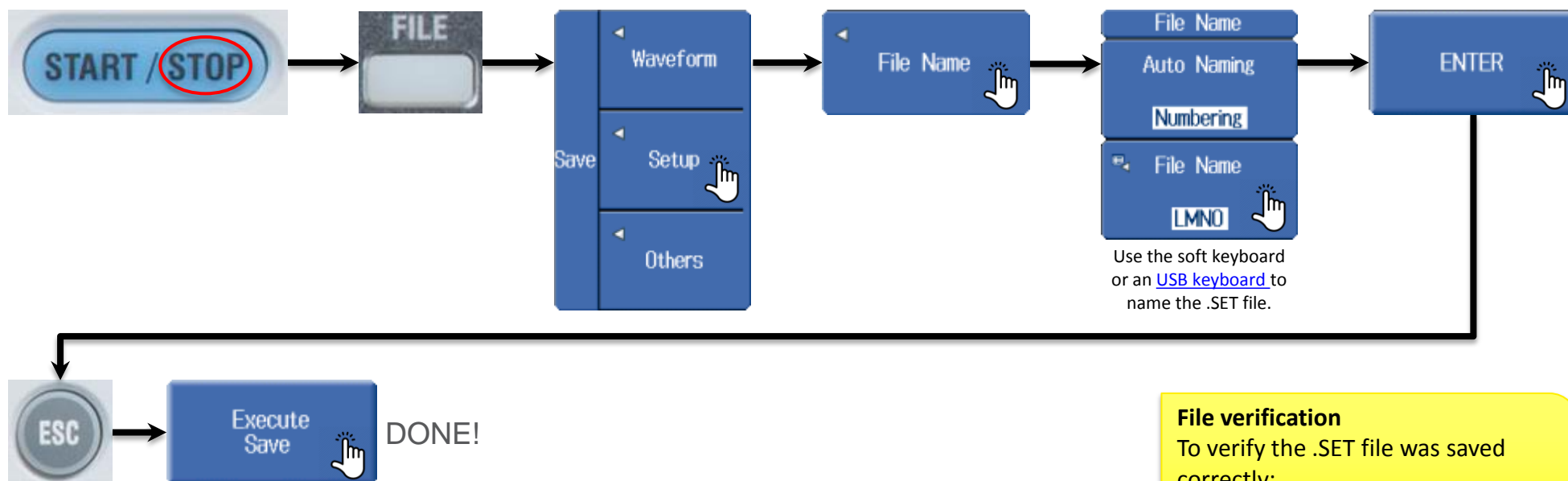
In order to take a closer look at the waveform data, use the **ZOOM** function. Go to [Exercise 4](#) for additional explanation.

12. Save a settings file

Prerequisite: none

In this exercise you will save the currently configured settings for your ScopeCorder to a .SET settings file.

Follow these keystrokes:



File verification

To verify the .SET file was saved correctly:

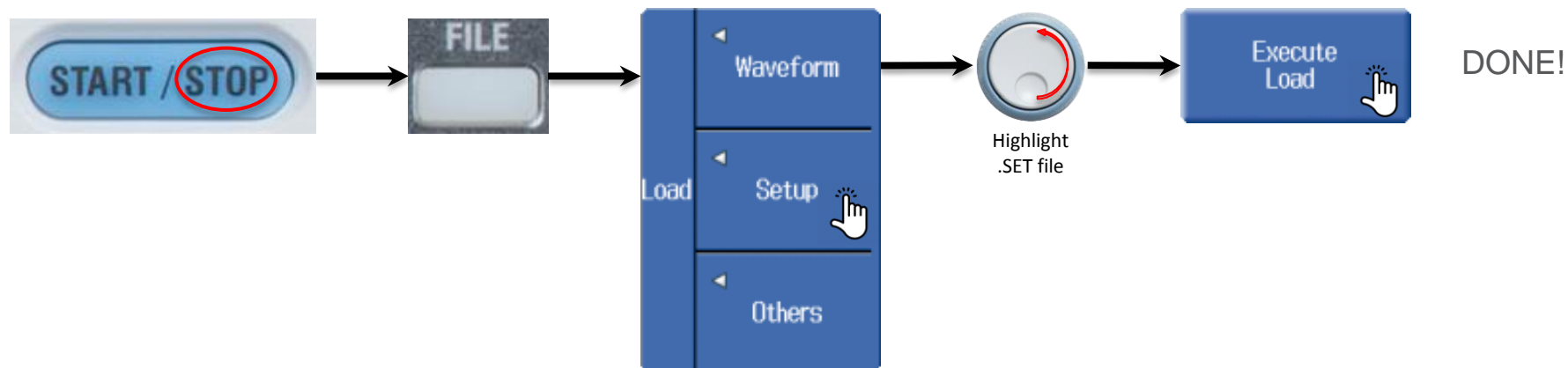
press FILE » UTILITY
Browse to find the file.

13. Load a settings file

Prerequisite: none

In this exercise you will load a .SET settings file to apply the saved settings to your ScopeCorder. Some steps may be abbreviated.

Follow these keystrokes:

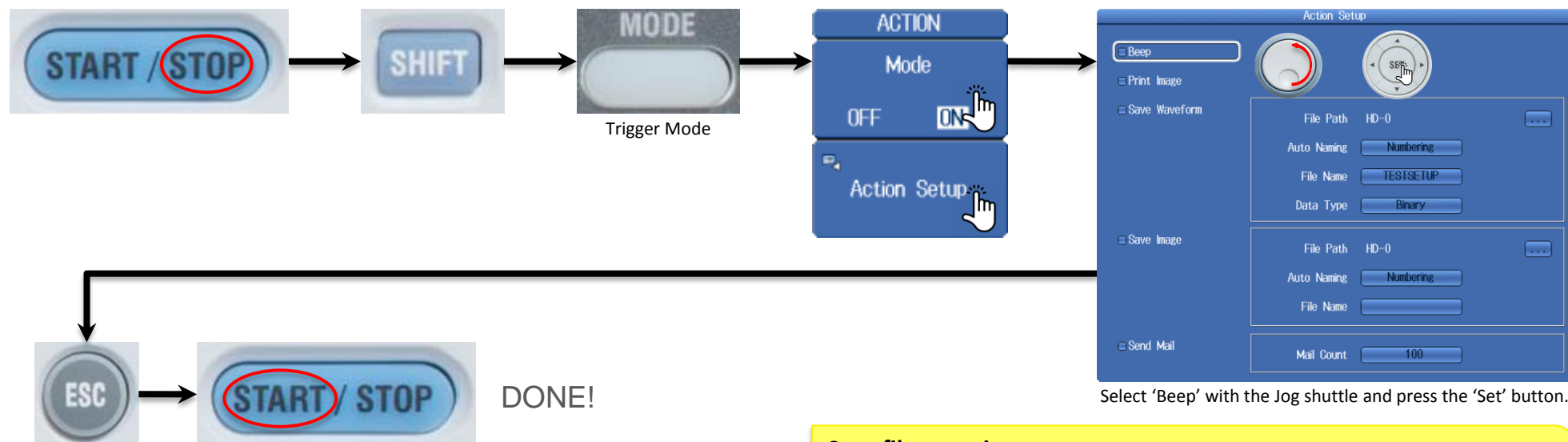


14. Action on trigger

Prerequisite: Perform [Exercise 2](#) first.

In this exercise you will configure a simple 'Action on Trigger' acquisition. This function allows you to leave the ScopeCorder unattended and it will automatically perform actions if a trigger event takes place.

Follow these keystrokes:



Select 'Beep' with the Jog shuttle and press the 'Set' button.

Save files on trigger

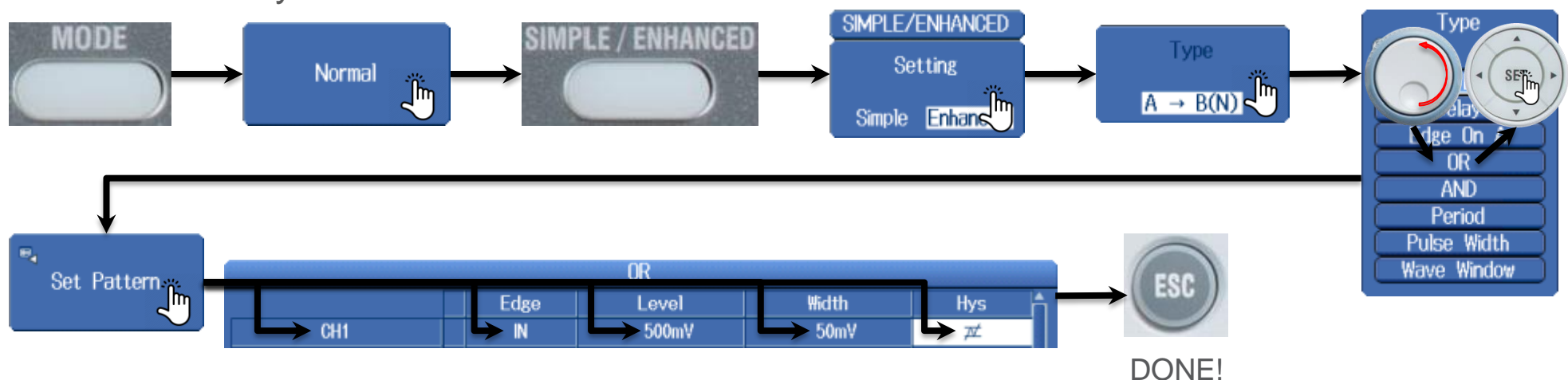
Combine this with [Exercise 5](#) and use the Save Waveform option in the Action Setup to automatically save a waveform file upon a trigger.

15. Window based OR trigger

Prerequisite: Perform [Exercise 2](#) first.

In this exercise you will configure an OR trigger for a specified Window. This simple and effective function triggers when a waveform goes IN or OUT in a user-specified range of voltage

Follow these keystrokes:



AND trigger

To perform a Window based AND trigger, simply choose TYPE = AND using otherwise these same keystrokes.

Edge detection condition (Edge)

Set the conditions for detecting each trigger source edge. When Edge is set to IN, An edge is detected when the trigger source enters the specified level range; in our example 450 – 550 mV.

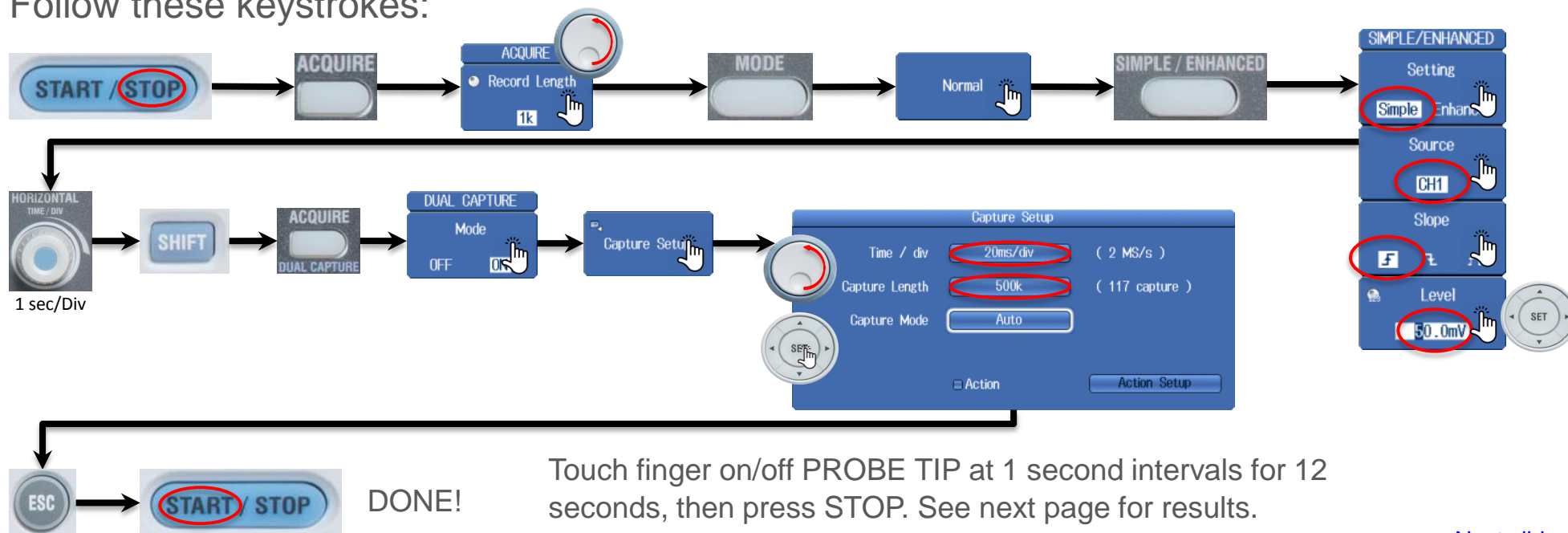
Test&Measurement

16. Dual Capture Setup

Prerequisite: Perform [Exercise 1](#) and [Exercise 2](#) first.

In this exercise you will set up a 'Dual Capture'. 'Dual Capture' is a feature which will record data at a low rate until a trigger condition/event is detected after which data is recorded at high sample rate.
Disconnect the PROBE TIP from PROBE COMP; leave PROBE GROUND connected (important).

Follow these keystrokes:



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16. Dual Capture Results



The top window (Main) displays an acquisition with the sample rate of 100 S/s.

The bottom window (Dual Capture) displays one of the 'Dual Capture' events with a sample rate of 2 MS/s

Combine 'Dual Capture'

'Dual Capture' can also 'Auto Save' and is compatible with other 'Action' features.

Display Events

Not all events are clearly visible in the main window. To visualise all events in the main window, press: **SHIFT + ACQUIRE** » **Next** » **Event Display** This can also be done after acquisition has stopped.

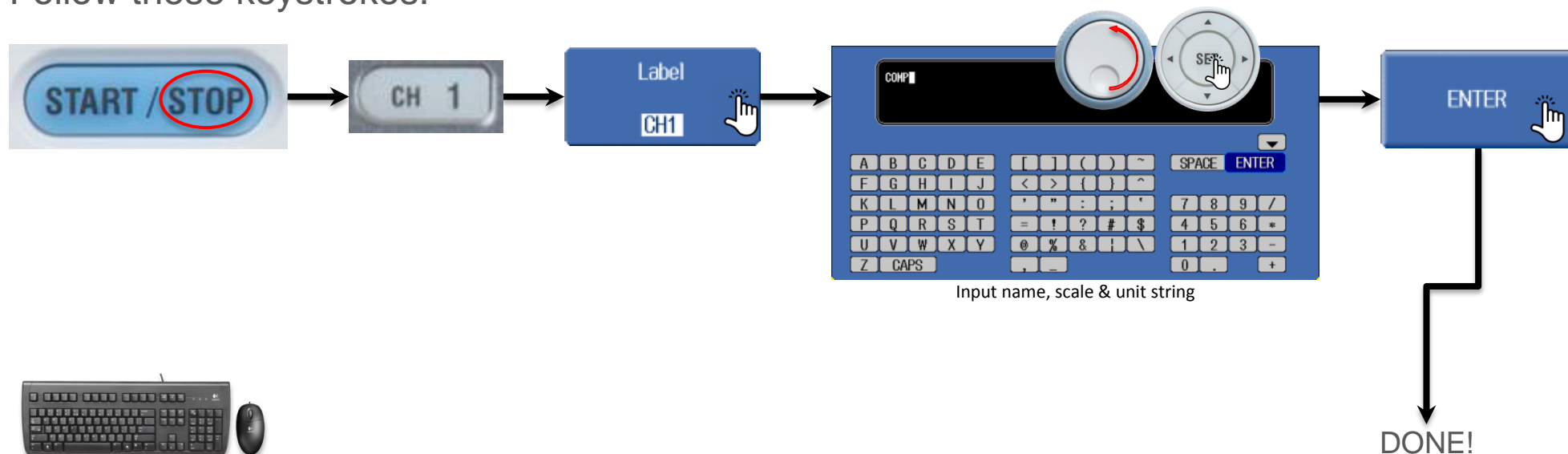
Test&Measurement

17. Channel labeling Setup

Prerequisite: Perform [Exercise 2](#) first.

In this exercise you will add a new channel label to channel 1.

Follow these keystrokes:



Control your instrument

Connect a [USB mouse & keyboard](#) to make input to the ScopeCorder easier.

Results are displayed on the next page.

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Test&Measurement

17. Channel labeling

Results

**Adjust multiple channels**

Use the ALL CH button menu to make adjustments to multiple channels at once.

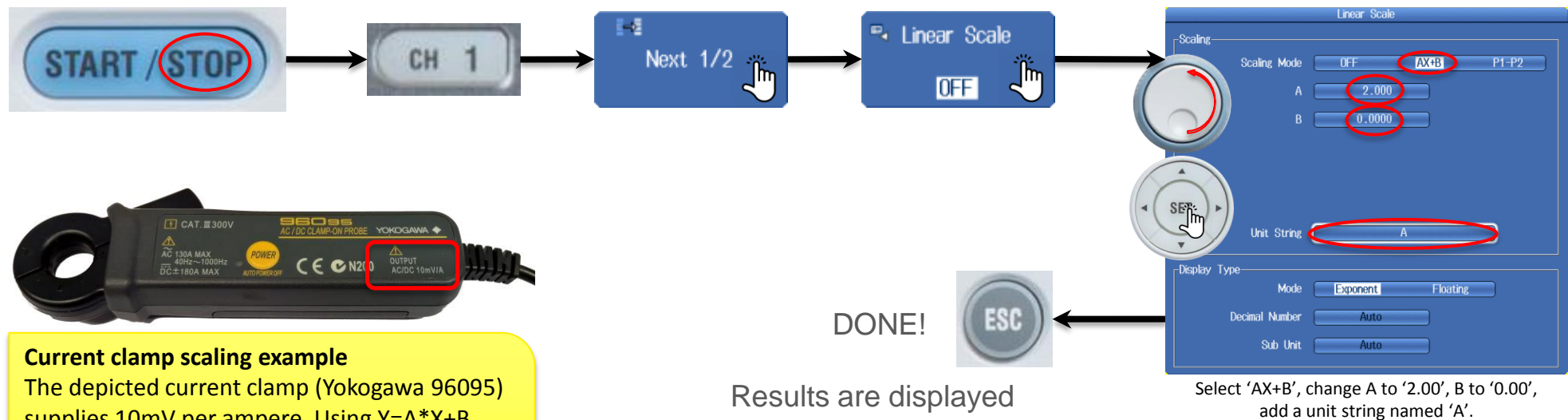
Test&Measurement

18. Scaling & Units Setup

Prerequisite: Perform [Exercise 2](#) first.

In this exercise you will add custom scaling and a unit to an existing channel in order to display the actual measured current, rather than the acquired voltage.

Follow these keystrokes:



Current clamp scaling example

The depicted current clamp (Yokogawa 96095) supplies 10mV per ampere. Using $Y=A*X+B$ scaling we can visualise the acquired current instead of the "raw" voltage. The formula will be: $1A (Y) = 100 (A) * 10mV (X) + 0 (B)$

18. Scaling & Units

Results



CH1 – Scaled COMP signal

Y-scale min: -5.000A

Y-scale max: 5.000A

Resolution: 1A/div

CH2 – Regular COMP signal

Y-scale min: -2500mV

Y-scale max: 2500mV

Resolution: 500mV/div

* Used CH2 to visualise the regular COMP signal

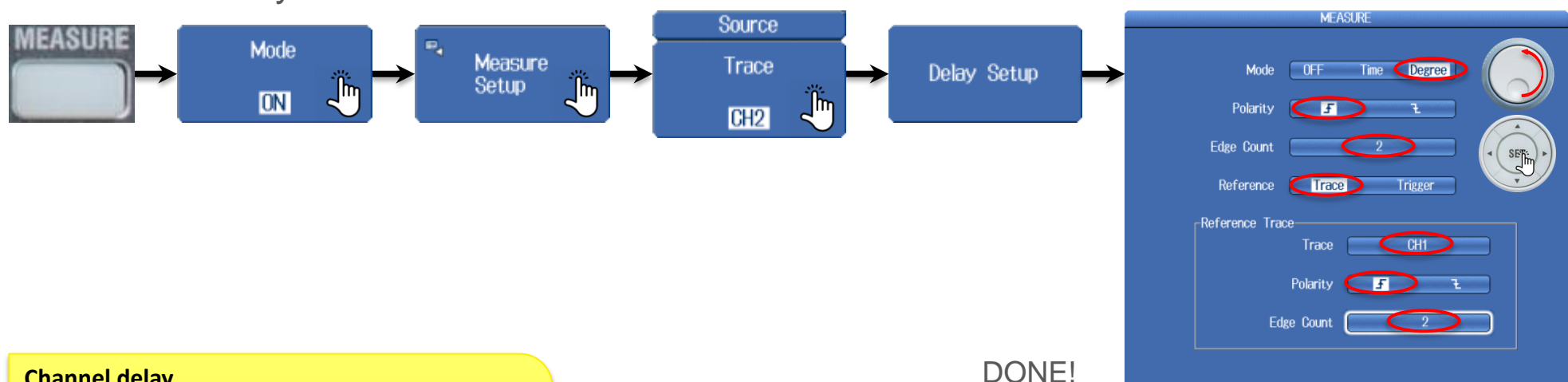
19. Phase measurement between 2 channels

Setup

Prerequisite: Acquire two 60° phase shifted waveforms on CH1 and CH2, at 5ms/DIV

In this advanced exercise you will setup a Phase Measurement between the two acquired waveforms. Steps are somewhat abbreviated.

Follow these keystrokes:



DONE!

Results are displayed on the next page.

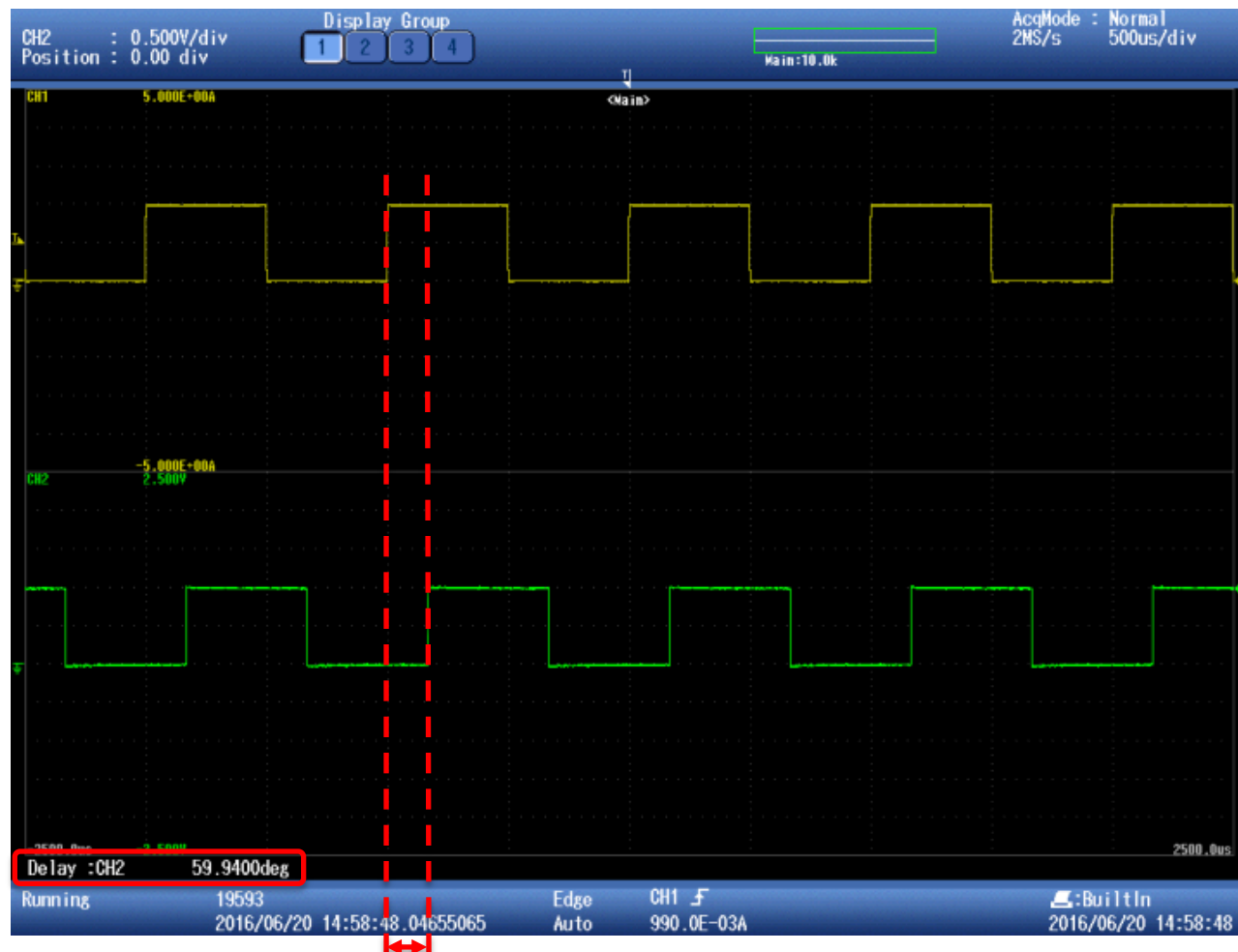
Channel delay

In order to perform this exercise with a DL850E(V) only, you can also connect CH 2 to PROBE COMP and add a delay to the channel. To do this: Press the CH 2 button » Select Filter Delay Setup » set a delay of 166μs

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19. Phase measurement between 2 channels

Results

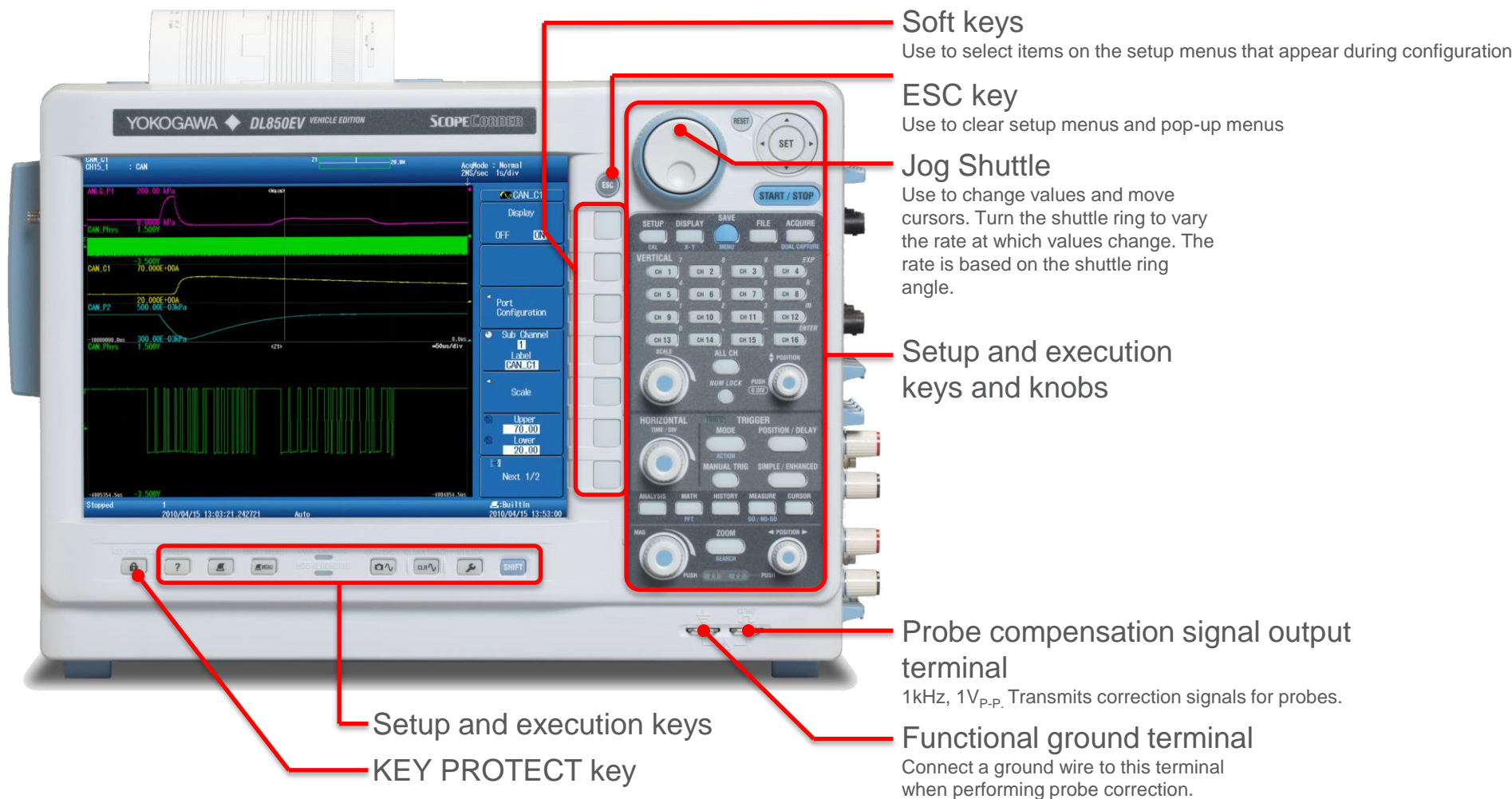


60 degrees delay between 2nd rising edge of CH1 to the 2nd rising edge of CH2 (as counted at zero-crossing, from left to right).

Extra Display

Measurement values are displayed on top of the waveform. To create blank space, press Display » Extra Window, set the value to 1.

Appendix A – DL850E(V) knobs and keys

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Appendix A – DL850E(V) knobs and keys



CH1 to CH16 keys

These keys display menus for turning the display of each channel on and off and configuring settings such as display label settings, input coupling settings, the probe attenuation or the current-to-voltage conversion ratio, the bandwidth limit, the vertical position, vertical zoom settings, the offset value and linear scaling. Also you can press a key to select the channel that the SCALE knob will control. Channel keys illuminate when their corresponding channel is on. After you press NUM LOCK, you can press a channel key to enter the number displayed to the upper right of the key in white.

ALL CH key

Press this key to display a window in which you can configure all the settings from the menus that appear when you press CH1 to CH16. The settings appear in a list.

POSITION knob (vertical POSITION knob)

Use this knob to adjust the vertical display position (vertical position) of an input waveform. Before you turn this knob, select the target waveform by pressing a key from CH1 to CH16. This knob has a push switch. You can press the knob to reset the position to 0.00 div.

NUM LOCK key

Press this key to use the CH1 to CH16 keys to enter numbers.

SCALE knob

Use this knob to set the vertical scale. Before you turn this knob, select the target waveform by pressing a key from CH1 to CH16. If you change the scale while waveform acquisition is stopped, the setting actually takes effect when you restart waveform acquisition.

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Appendix A – DL850E(V) knobs and keys



Horizontal

TIME/DIV knob

Use this knob to set the time-axis scale. If you change the scale while waveform acquisition is stopped, the scale actually takes effect when you restart waveform acquisition.

Triggering

(SHIFT +) MODE key

Displays a menu for selecting the trigger mode.
Press SHIFT and then MODE to display a menu for configuring action-on settings.

POSITION/DELAY key

Press this key to set the trigger position and the trigger delay.

SIMPLE/ENHANCED key

Displays a trigger setup menu

MANUAL TRIG key

Press this key to make the DL850E/DL850EV trigger regardless of the trigger settings.

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Appendix A – DL850E(V) knobs and keys

Other



ANALYSIS key

Displays a menu for performing power math. This key is valid on models with the /G5 option.

(SHIFT+) MATH key

Displays a menu for waveform computation. Press SHIFT and then MATH to display a menu for configuring FFT computation.

HISTORY key

Displays a menu for using the history feature to recall data.

(SHIFT+) MEASURE key

Display a menu for automated measurement of waveform parameters. Press SHIFT and then MEASURE to display a menu for GO/NO-GO determination.

CURSOR key

Displays a menu used when performing cursor measurements.

(SHIFT+) ZOOM key

Displays a waveform zoom display menu. Press SHIFT and then ZOOM to display a menu for data searching (the search & zoom function).

MAG knob

Use this knob to set the zoom factors for the Zoom1 and Zoom2 zoom boxes. This knob has a push switch. Press the MAG knob to switch the zoom box whose zoom factor is set by it.

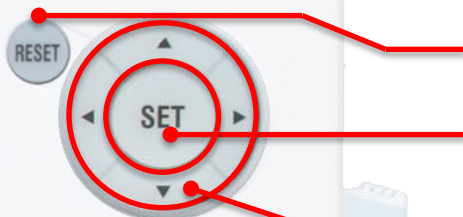
<POSITION> knob (Zoom POSITION knob)

Use this knob to set the zoom position. This knob has a push switch. Press the POSITION knob to switch the zoom box whose zoom position is set by it.

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Appendix A – DL850E(V) knobs and keys

Other - continued



RESET key

Resets the value to it's default value

SET key

Press this key to select the menu item that you have moved the cursor to using the job shuttle. You can also press the SET key to start entering a value or characters.

Arrow keys (▲▼▶◀ keys)

Use the ▶◀ keys to move the cursor between numeric digits. Use the ▲▼ keys to increment or decrement the value of a digit. You can also use the ▲▼ keys to select setup items.

START / STOP

START/STOP key

Starts and stops waveform acquisition according to the trigger mode. The key is illuminated while the DL850E/DL850EV is acquiring waveforms.

(SHIFT+) ACQUIRE key

Displays a menu used to set the waveform acquisition mode. Press SHIFT and then ACQUIRE to display a menu for configuring the dual capture feature.

FILE key

Press this key to save or load data from a storage medium or to display a menu for file manipulation.

(SHIFT+) SAVE key

Pres this key to save waveform or screen capture data to a storage medium. Press SHIFT and then SAVE to display a menu for configuring the save operation.

(SHIFT+) DISPLAY key

Use this key to configure the display. Press SHIFT and then DISPLAY to display an X-Y display menu.

(SHIFT+) SETUP key

Displays a menu for initialising the settings to their factory defaults; performing auto setup, which automatically sets the DL85E/DL850EV according to the input signal; storing and recalling setup information; and so on. Press SHIFT and then SETUP to display a calibration menu.

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Appendix A – DL850E(V) knobs and keys

Other - continued

KEY PROTECT key

When you press this key, it illuminates, and the keys on the front panel are locked. Press the key again to unlock the keys.

HELP key

Turns on and off the help window, which explains various features

PRINT key

Use this key to save and print screen capture data.

PRINT MENU key

Displays a menu for printing screen captures to the built-in printer or a network printer or displays a menu for saving screen capture data to a storage medium.

SNAPSHOT key

Retains the currently displayed waveforms on the screen in white. Snapshot waveforms can be saved and loaded.

CLEAR TRACE key

Clears the waveform acquired using the snapshot function and accumulated waveforms.

UTILITY key

Displays a menu for configuring system, communication, network and environment settings; for performing self tests and for displaying system information (information about installed modules, installed options and the firmware version).

SHIFT key

Press this key once to access the features that are written in purple below each key. The shift key illuminates when the keys are shifted. Pressing the key again clears the shifted condition.



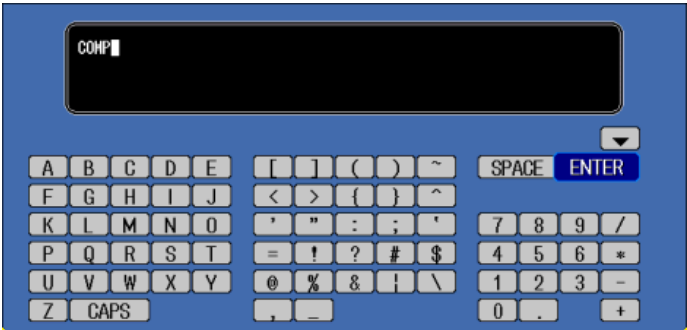
Appendix B – Using a USB keyboard & mouse

If you find yourself altering the ScopeCorder’s configuration often, you will appreciate the use of keyboard and mouse with it. Using the USB ports you can connect wired keyboards and mice.

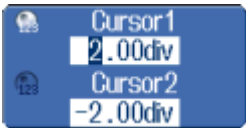
They keyboard will function as expected, it will allow you to easily enter characters for data entry fields:

The mouse introduces a new way of accessing all functionality. Using the right mouse button a context menu appears, allowing access to all menus and settings.

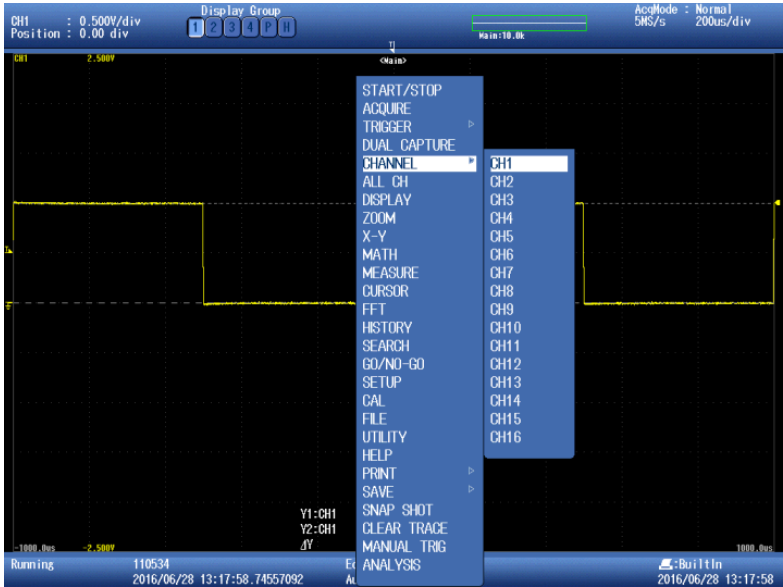
Example
Enter a
channel label



Example
Adjust cursor
settings



Mouse menu: channels



Appendix C – Sample rate & measurement time

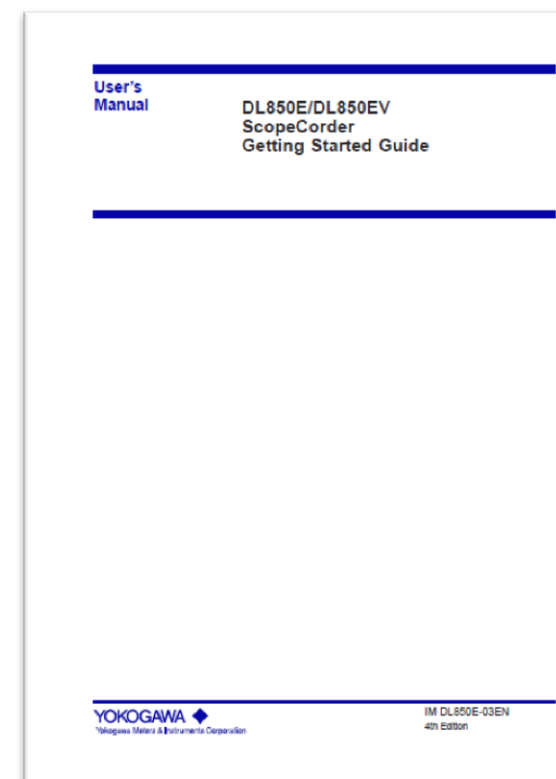
DL850E/DL850EV ScopeCorder getting started guide

In order to determine the possible sample rate & measurement time settings, a few parameters need to be defined. The 'DL850E/DL850EV ScopeCorder getting started guide' ([download link](#)) provides the necessary information.

From this manual we will be using Appendix 3 and 1.

Example case

4 measurement channels; up to 10MS/s sample rate
/M1 memory option (1 GPoint)
Use DualCapture



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Appendix C – Sample rate & measurement time

Maximum record length

- First thing to determine is the maximum record length. Go to Appendix 3 of the guide (page ‘App-19’), where you will find 4 tables. Depending on the use of the features ‘Dual Capture’ and ‘Hard disk recording’, a different table applies:

	Dual Capture OFF	Dual Capture ON
Hard disk recording OFF	Table 1	Table 3
Hard disk recording ON	Table 2	Table 4

- Select the row that represents your channel count.
- Select the column that represents your memory option.

Example case

For our example case we use table 3, resulting in a maximum record length of 100M.

When Dual Capturing Is On and Hard Disk Recording Is Off

Number of Displayed Channels	Model		
	Standard	/M1 (1 G)	/M2 (2 G)
9 to 16 channels	5 M	25 M	50 M
5 to 8 channels	10 M	50 M	100 M
→ 3 to 4 channels	25 M	100 M	250 M
2 channels	50 M	250 M	500 M
1 channel	100 M	500 M	1 G

Unit of record length: Point

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Appendix C – Sample rate & measurement time

Time/div and sample rate

- Now we can lookup what Time/div and sample rate options are available. To do this, go to appendix 1 of the guide (page ‘App-1’). Here you find tables with all options for the different record lengths.
 - If you have a 100 MS/s input module (720210 / 720211) installed, use the tables starting at page ‘App-1’.
 - If you don’t have 100 MS/s input modules installed, use the tables starting at page ‘App-8’.
- Now search for the column with the appropriate record length. In the example case (100M) we find this at pages ‘App-12’ and ‘App-13’, with the following options:

100 MPoint															
	Sample	Display		Sample	Display		Sample	Display		Sample	Display		Sample	Display	
<i>Time</i>	Rate	Record	<i>Time</i>	Rate	Record	<i>Time</i>	Rate	Record	<i>Time</i>	Rate	Record	<i>Time</i>	Rate	Record	<i>Time</i>
<i>/div</i>	(S/s)	(Points)	<i>/div</i>	(S/s)	(Points)	<i>/div</i>	(S/s)	(Points)	<i>/div</i>	(S/s)	(Points)	<i>/div</i>	(S/s)	(Points)	<i>/div</i>
<u>1 μs</u>	10 M	100	<u>1 ms</u>	10 M	100 k	<u>1 s</u>	10 M	100 M	<u>1 min</u>	100 k	60 M	<u>1 h</u>	2 k	72 M	<u>1 day</u>
<u>2 μs</u>	10 M	200	<u>2 ms</u>	10 M	200 k	<u>2 s</u>	5 M	100 M	<u>2 min</u>	50 k	60 M	<u>2 h</u>	1 k	72 M	<u>2 days</u>
<u>5 μs</u>	10 M	500	<u>5 ms</u>	10 M	500 k	<u>3 s</u>	2 M	60 M	<u>3 min</u>	50 k	90 M	<u>3 h</u>	500	54 M	<u>3 days</u>
<u>10 μs</u>	10 M	1 k	<u>10 ms</u>	10 M	1 M	<u>4 s</u>	2 M	80 M	<u>4 min</u>	20 k	48 M	<u>4 h</u>	500	72 M	<u>4 days</u>
<u>20 μs</u>	10 M	2 k	<u>20 ms</u>	10 M	2 M	<u>5 s</u>	2 M	100 M	<u>5 min</u>	20 k	60 M	<u>5 h</u>	500	90 M	<u>5 days</u>
<u>50 μs</u>	10 M	5 k	<u>50 ms</u>	10 M	5 M	<u>6 s</u>	1 M	60 M	<u>6 min</u>	20 k	72 M	<u>6 h</u>	200	43.2 M	<u>6 days</u>
<u>100 μs</u>	10 M	10 k	<u>100 ms</u>	10 M	10 M	<u>8 s</u>	1 M	80 M	<u>7 min</u>	20 k	84 M	<u>7 h</u>	200	50.4 M	<u>8 days</u>
<u>200 μs</u>	10 M	20 k	<u>200 ms</u>	10 M	20 M	<u>10 s</u>	1 M	100 M	<u>8 min</u>	20 k	96 M	<u>8 h</u>	200	57.6 M	<u>10 days</u>
<u>500 μs</u>	10 M	50 k	<u>500 ms</u>	10 M	50 M	<u>20 s</u>	500 k	100 M	<u>9 min</u>	10 k	54 M	<u>9 h</u>	200	64.8 M	<u>20 days</u>
						<u>30 s</u>	200 k	60 M	<u>10 min</u>	10 k	60 M	<u>10 h</u>	200	72 M	
									<u>12 min</u>	10 k	72 M	<u>12 h</u>	200	86.4 M	
									<u>15 min</u>	10 k	90 M				
									<u>30 min</u>	5 k	90 M				

Time/div & recording time
Please note that in our example case we can select from 1 μ s to 20 days per division, resulting in an acquisition time of 10 μ s to 200 days.

Additional Resources

For technical support on ScopeCorder products, please contact our Customer Service Centre:

Phone +31 (0)88 – 464 1429

Email CSC.TCE@nl.yokogawa.com

To find information on the ScopeCorder platform (main frames, modules & accessories) and also find application examples, please make use of the ScopeCorder product pages at our website:

[DL850E\(V\) product page](#)

To download the latest manuals, firmware versions, drivers and software, please register yourself and your product at our Y-Link page:

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