

# EURO-DSO

## 3 Channel Digital Storage Oscilloscope

Digital Storage Oscilloscope, based on JYE Tech DSO150. Two DC-coupled analogue Channels with individual vertical deflection and vertical position control. Push-Encoder and four shortcut buttons. A three-way switch selects the trigger source.

### Features:

- \* 2 Analogue Channels (CH 1, CH 2)
- \* 1 Digital Channel (EXT TRIG)
- \* Trigger Select for each Input (TRIG SEL)
- \* V/DIV (per analogue channel): 2V 5V 10V
- \* s/DIV: 20us 30us 50us 0,1ms 0,2ms 0,5ms 1ms 2ms 5ms 10ms
- \* TRIG: Single, Normal, Auto
- \* Frequency measurement per analogue channel

### Usage:

- \* Encoder press moves focus to next parameter (counter-clockwise)
- \* Left/ right turn in encoder changes the parameter which is in focus
- \* V/DIV, s/DIV, TRIG -> Quick-activate entry fields
- \* Short press HOLD to freeze/unfreeze the display
- \* Long press HOLD to show/ hide frequency measurements

### Long press encoder push button:

Focus	Action
Trigger Level	Zero the trigger level
Timebase scrollbar (horizontal)	Center waveform on screen (at trigger point)
CH1 & CH2 cursors (vertical)	Zero calibration (while V/Div set to GND)
EXT TRIG cursor	changes the height of the waveform

For best performance the TRIG SEL switch should always be set to a signal-carrying channel. The trigger level/ threshold can be changed by pressing the TRIG button to highlight the right arrow, then turning the encoder. Trigger LED flashes when active trigger is correctly set.

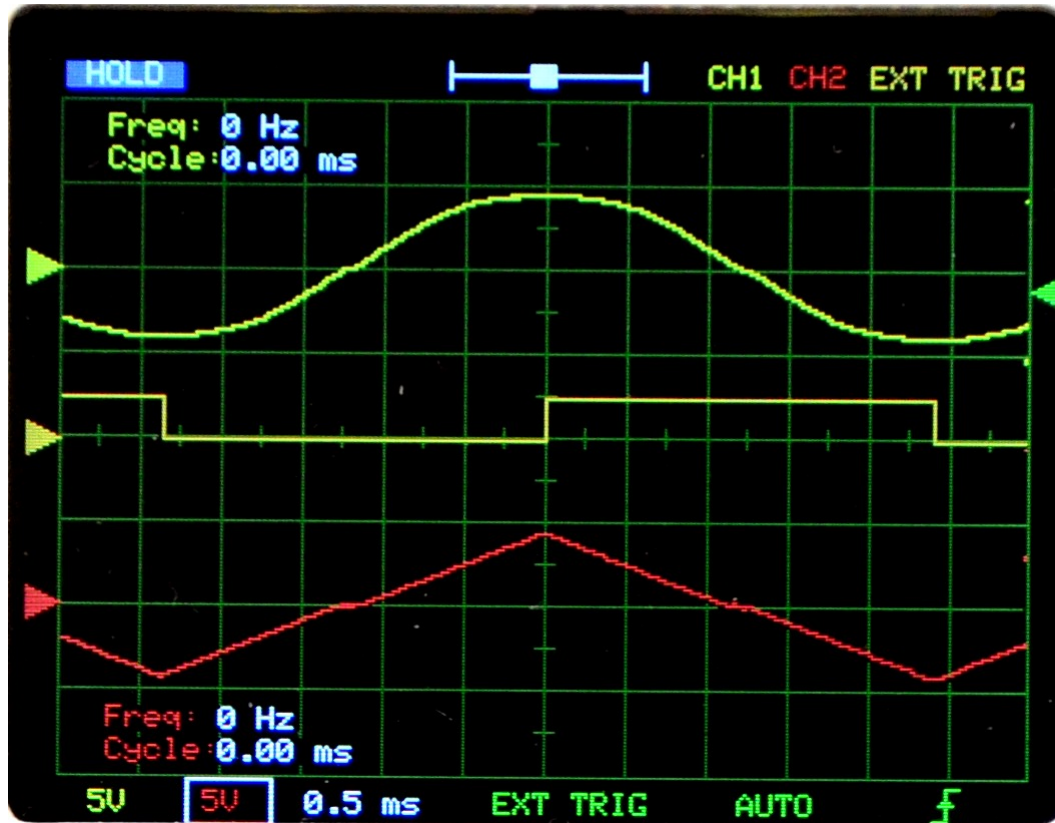
Note: In normal trigger mode (NORM), the display is only updated when selected channel reaches trigger threshold. If display gets stuck, set to AUTO and back to NORM.

Zero calibration (analogue channels): On both channels set V/DIV to GND. Then press encoder button until left arrow of CH 1 is highlighted. Long press encoder button to calibrate, then move arrow to desired position by turning encoder. Repeat for CH 2.

Press and hold HOLD button at power up to reset settings to default

For use with VCO, especially tuning, the following settings are useful.  
Change parameter for s/DIV in the range of 50us to 2ms, depending of the VCO's pitch.

Note: to be able to measure the frequency, at least one period must be visible on the screen.



To view slower signals (for example ADSR or LFO), change parameter for s/DIV above 2ms.

Note: at timebase 10ms, the V/DIV shortcut-button is deactivated. However, you can change the V/DIV settings via the Encoder pushbutton.