

# Using the TSD122 Stroboscope with an MP System



## Overview

(Click on a # for details.)

With a BIOPAC TSD122 Stroboscope and an MP100 or MP150 System, you can:

1. Synchronize the stroboscope to an averaging pass.
2. Trigger the stroboscope during acquisition or during an averaging pass.
3. Trigger an acquisition or an averaging pass with the stroboscope.
4. Use a digital input to acquire the signal synchronized with the stroboscope.
5. Use an analog input to acquire the signal synchronized with the stroboscope.

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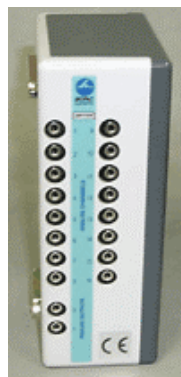
## Hardware



CBL100



CBL102 connects to CBL106



UIM100C or STM100C



### Note:

When using the STM100C:

- a. Connect the CBL100 cable from the TSD122 to the OUTPUT 50Ω input.
- b. Set the Source switch as desired (OUT0, OUT1, PULSE or CH15).
- c. Adjust the Level until it stimulates the stimulator.

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## Setup

### A. Synchronize the stroboscope to an averaging pass.



1. Connect CBL102 and CBL106.
2. Insert CBL102 in the stroboscope input ▲.
3. Insert CBL106 in the UIM100C:  
**Black** to GND D  
**Red** to Digital I/O 15

You must use Digital I/O 15 and establish acquisition parameters in the BIOPAC software.

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**B. Trigger the stroboscope during acquisition or during an averaging pass.**



1. Insert CBL100 in the stroboscope input ▲.
2. Insert CBL100.  
*UIM100C*: Use Analog Output 0 or 1.  
*STM100C*: Use OUTPUT 50Ω.

For the UIM100C, you must set the Analog Output as a TTL-compatible trigger and establish acquisition parameters in the BIOPAC software.

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**C. Trigger an acquisition or an averaging pass with the stroboscope.**



1. Connect CBL102 and CBL106.
2. Insert CBL102 to the stroboscope output ▼.
3. Insert CBL106 in the UIM100C  
**Black** to GND D  
**Red** to TRIG

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**D. Use a digital input to acquire the signal synchronized with the stroboscope.**



1. Connect CBL102 and CBL106.
2. Insert CBL102 in the stroboscope output ▼.
3. Insert CBL106 in a Digital I/O (0-15) on the UIM100C.

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**E. Use an analog input to acquire the signal synchronized with the stroboscope.**



1. Insert CBL100 to the stroboscope output ▼.
2. Insert CBL100.  
*UIM100C*: Use Analog Channel (1-16)  
*STM100C*: Use OUTPUT 50Ω.