



# ***ELECTRO-OPTICAL PRODUCTS CORP.***

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## **INSTRUCTIONS FOR USE OF THE DCH-60-PC DRIVER WITH THE CH-60 OR WITH THE CH-61 SHUTTER/CHOPPER 14-101063**

- 1) REMOVE CAREFULLY THE SHUTTER/CHOPPER FROM THE PLASTIC BOX.
- 2) MOUNT THE SHUTTER ONTO A **SOLID MOUNT**. USE # 6-32 SCREWS.
- 3) CONNECT THE SHUTTER/CHOPPER TO THE DCH-60 "OUTPUT" CONNECTOR.
- 4) CONNECT THE DCH-60 DRIVER TO A 15Vdc POWER SUPPLY.
- 5) USE THE "EXT. INT." SELECTOR SWITCH TO SELECT THE MODE OF OPERATION.  
IN THE "INT." MODE THE CH-60 OR THE CH-61 SHUTTER/CHOPPER OPERATES AS A LOW FREQUENCY CHOPPER. THE CHOPPING FREQUENCY IS SET BY AN INTERNAL OSCILLATOR.  
IN THE "EXT." MODE THE SHUTTER/CHOPPER IS CONTROLLED BY AN EXTERNAL TTL SIGNAL TO OPEN AND CLOSE THE DEVICE.
- 6) "INT." MODE: SET THE SELECTOR SWITCH TO THE "INT." POSITION.  
TURN ON THE POWER SUPPLY. THE SHUTTER/CHOPPER WILL OPERATE AS A VARIABLE FREQUENCY CHOPPER. THE CHOPPING FREQUENCY IS SET BY AN INTERNAL OSCILLATOR AND IS CONTROLLED BY THE "FREQ." TRIM POT ON THE FRONT PANEL.
- 7) "EXT." MODE: SET THE SELECTOR SWITCH TO THE "EXT." POSITION.  
TURN ON THE POWER SUPPLY. THE POSITION OF THE BLADE IN THIS MODE IS CONTROLLED BY A TTL INPUT SIGNAL TO THE DRIVER.  
WHITE WIRE: TTL INPUT  
BLACK WIRE: GND  
WITH A "HIGH" TTL INPUT OR WITH NO TTL INPUT: THE SHUTTER IS OPEN  
WITH A "LOW" TTL INPUT OR SHORT TO GND: THE SHUTTER IS CLOSE.  
THE RESPONSE TIME OF THE SHUTTER IS ~10msec
- 8) THE "MONITOR" OUTPUT IS A TTL OUTPUT SIGNAL THAT CAN BE USED WITH A LOCK IN AMPLIFIER.  
WHITE WIRE: TTL OUTPUT  
BLACK WIRE: GND