



# OPERATING INSTRUCTIONS

## PRO TIMER IV SUPER



**Please read this manual!**

This manual contains setup information necessary to achieve proper performance from your Pro Timer IV Super.

Look inside  
for accessories to use  
with your Pro Timer IV Super!

# PRO TIMER IV SUPER

USER MANUAL / OPERATING INSTRUCTIONS

Thank you for purchasing the PRO TIMER 4 SUPER. With features like HIT FACTOR scoring, PLATE SENSOR INPUT, REMOTE START, RELAY OUTPUT, MULTIPLE OPERATING MODES and ADJUSTABLE SENSITIVITY, it is one of the most full featured shot timers on the market.

## TABLE OF CONTENTS

<b>Getting Started</b> .....	<b>3</b>
Battery Installation .....	3
Quick Start .....	3
Menu Navigation, & Programming .....	3
The Start Button .....	3
<b>Mode Selection</b> .....	<b>4-15</b>
Select from 3 Modes of Operation .....	4
Simplified Mode .....	5-8
Standard Mode .....	9-11
Extended Mode .....	12-15
<b>Interface Jacks</b> .....	<b>16-17</b>
<b>Advanced Controls</b> .....	<b>18</b>
Shot Sensitivity Adjustments .....	18
Quick Keys .....	18
Limited Warranty & Service Information .....	19
Accessories .....	20-23

## GETTING STARTED

### BATTERY INSTALLATION

The PT4 operates on one 9 volt ALKALINE battery (not included). To install your battery, press the battery compartment latch and remove the cover. Install the battery and replace the cover.

### QUICK START

To turn on the PT4, press the POWER ON membrane switch on the bottom of the timer. Check the HORN switch on the bottom to be sure it is ON, then press the START button on the display panel. You will notice an instant report from the buzzer indicating the timer has been activated. Tap on the front of the timer near the shot sensor opening to register some "shots" and familiarize yourself with the display. The time to the last shot is located in the upper left corner of the display. All time values displayed are in seconds. The front panel label is marked around the display area to identify the values shown on the MAIN DATA SCREEN. The PT4 will save up to 59 shots for review. If over 59 shots are in a string, it will always save the last one as the 59th. Automatic power down after 10 minutes of idle time will eliminate accidental battery discharge as a result of forgetting to turn the unit off.

### MENU NAVIGATION, & PROGRAMMING

The PT4 uses 5 pushbuttons for operation. (Press the RIGHT or LEFT ARROW button to move the cursor from digit to digit, right or left on the screen, and on to the next screen. The menu runs in a continuous loop, so after becoming familiar with the order of the screens, you will know which arrow button will navigate most efficiently for the intended task.

Any settable digit will flash. To increase a digit that is flashing, press the UP ARROW button. To decrease a digit that is flashing, press the DOWN ARROW button. (Digits will be added to or borrowed from automatically if the current digit is changed from 0 to 9 or 9 to 0.) Changed values are automatically saved when the unit powers down after 10 minutes of idle time. If all this makes sense, you are now able to program the PT4.

### THE START BUTTON

The START button serves two functions. It will start /reset the timer from the MAIN screen and PAR TIME screen or send data from the PRINT SHOTS screen. If it is pressed on other screens, it will do nothing.

## MODE SELECTION

### SELECT FROM THREE MODES OF OPERATION

The PT4 can operate as three different timers to best suit your needs. Specialized features are added in the Standard and Extended modes

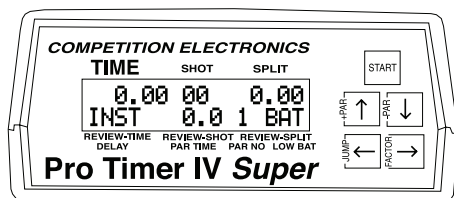
- **Simplified:** This is the default mode. Shot review, Par time and Start delay settings are accessed on the main screen. This mode is convenient if you switch Par times often during use.
- **Standard:** This mode adds an instant review feature on the main screen. Par time and Start delay are accessed from separate screens. Use this mode if you would like to review a selected shot number or split repeatedly without pressing buttons while retaining the last shot data on the same screen.
- **Extended:** This mode has the same main display layout as the Standard mode. When selected, it allows setup of multiple par times that run once in a string when started or continuously over and over until stopped.

To change the operating mode, press the left arrow button repeatedly until you reach the "Select Operating Mode" screen, then press the up arrow or down arrow button to change the mode.

**SIMPLIFIED MODE** (This mode has five separate screens.)

## 1) MAIN DATA SCREEN

You must Start the PT4 from this screen.



- **Review:** With the current shot number flashing, all shots (up to 59) can be reviewed by pressing the UP ARROW or DOWN ARROW button.
- **Split time:** The difference between the shot time on the display and the shot time previous to it is shown in the upper right corner of the display.
- **Par Time:** A "Par time" is a second beep used to signal a time limit for an event. The PT4 has up to 6 par times that are settable and stored automatically during power down. The number in the lower right corner of the display is the par number location (1-6). The number in the lower middle of the display is the set par time for that location. To retrieve a different par time from memory, move the flashing digit with the LEFT ARROW or RIGHT ARROW button until the par number is flashing and press the UP ARROW or DOWN ARROW button. To change the par time for the current number displayed, move the flashing digit to the appropriate location and adjust the digit with the UP ARROW or DOWN ARROW button. The PT4 will record all shots before and after the par time beep.
- **Start Delay:** Start delay type is displayed in the lower left position. INST (instant) will begin as soon as you press the start button, and RAND (random) will begin 3.5 to 6 seconds after the start button is pressed. To toggle between the two settings, use the RIGHT/LEFT ARROW buttons to shift the cursor until the delay type flashes and then use the UP/DOWN ARROW buttons to change.
- **Low Battery:** When the battery voltage drops to approximately 7 volts, the letters BAT will flash in the lower right corner of the display. It is time to change the battery.

Press the left arrow button repeatedly to jump to the "Mode Select" screen.

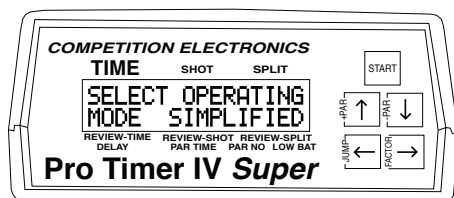
# PRO TIMER IV SUPER

USER MANUAL / OPERATING INSTRUCTIONS

*(Simplified Mode continued...)*

## 2) MODE SELECT SCREEN

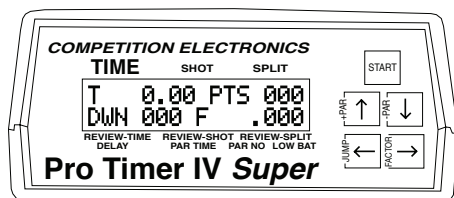
To select between Simplified, Standard, and Extended operating modes, press the UP / DOWN ARROW button until the desired mode is displayed. The setting will be saved automatically.



Press the left arrow button to jump to the "Hit Factor" screen.

## 3) HIT FACTOR (scoring) SCREEN

This is where you can use the PT4 to calculate your score for an IPSC stage. Hit Factor is calculated by dividing your points score by your time. When running a match, this is a time saving feature that will eliminate manual calculations that can cause errors. When practicing, it can reveal the best score when you try different methods.



- **Total Stage Points:** In order for the PT4 to calculate your score (hit factor) for a stage, add up the total possible points for the stage and enter the value in the upper right corner of the display. Use the RIGHT / LEFT ARROW buttons to navigate the location, then UP / DOWN ARROW buttons to input the numbers.
- **Time:** The time displayed is total time recorded and carried over from the main display after the course has been shot. It can be altered by the user to see the effect of a different time on the score during practice.

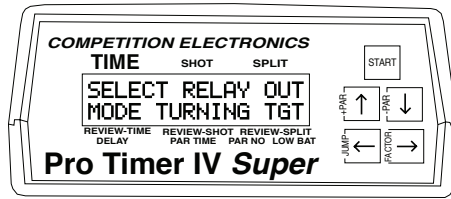
*(Simplified Mode continued...)*

- **Points Down:** This is where you enter the points down from each target in the stage. The points down are deductions from a score based on shot placement in the target scoring zones. IDPA and IPSC targets have the deductions marked on each zone. Navigate and set the total points down by increasing the number as you score each target and you will see the calculated hit factor in the lower right corner of the display. By changing the number of points down during practice, you can see the effect on your score.

Press the left arrow button repeatedly to jump to the “Relay Out Select” screen.

#### 4) RELAY OUT SELECT SCREEN

You can control the duration of the output signal to the relay jack for interface with external devices such as turning targets, external horns, and lights.



- **Standard:** The output will activate for the duration of every beep, or until user terminates the cycle by pressing any button.
- **Turning Target:** The output will activate for the duration of the Par Time. It de-activates at the end of the Par Time automatically.

See the “INTERFACE JACKS” section on page 16 for more information about this feature.

Press the left arrow button to jump to the “Print Shots” screen.

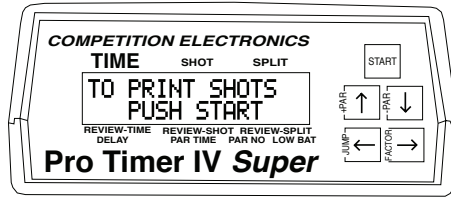
# PRO TIMER IV SUPER

USER MANUAL / OPERATING INSTRUCTIONS

*(Simplified Mode continued...)*

## 5) PRINT SHOTS SCREEN

For a hard copy of your data, you can transmit the data recorded from the PT4 to an optional portable thermal printer (Hewlett Packard HP 82240B) available direct from Competition Electronics. It comes with paper. Common thermal calculator paper and (4)AA batteries are consumables used in this HP product.



- **To print:** Position the bottom of the PT4 within about two feet of the front of the printer. Upon pressing the Start button, the shot string times and scoring data are wirelessly sent from an infra-red LED on the bottom of the PT4 to the printer. Maintain positioning until the words PRINTING DATA are gone from the PT4 display.

Use the left arrow button to navigate back to the "Mode Select" screen if you would like to change modes, or navigate to the "Main Data" screen to run the timer

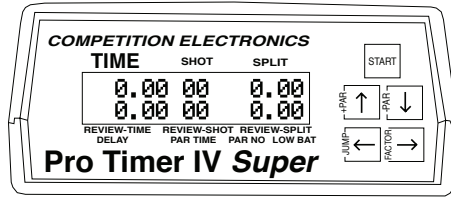


## STANDARD MODE

This mode has eight separate screens:

### 1) MAIN DATA SCREEN

You must start the PT4 from this screen or the Par Time setup screen.

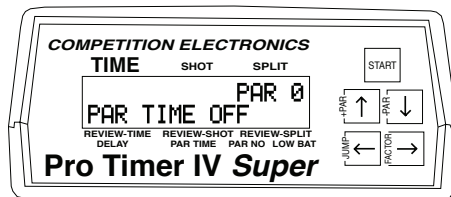


- **Current shot:** The top line of the display screen shows the last recorded shot time, number, and split time.
- **Review:** The bottom line of the display screen has the “Instant Review” feature. Select the review shot number by navigating the cursor and changing the digits to display the desired shot number time and split. It will retain this setting until the timer turns off or it is changed. This feature is useful if you want to repeatedly see the time interval between the same two shots during practice.

### 2) PAR TIME SCREEN

A “Par time” is a second beep used to signal a time limit for an event. The PT4 will record all shots before and after the par time beep.

The par time screen looks like this when set to 0 for OFF- no second beep will sound.

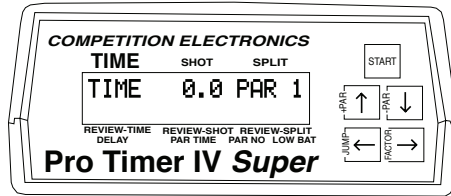


# PRO TIMER IV SUPER

USER MANUAL / OPERATING INSTRUCTIONS

(Standard Mode continued...)

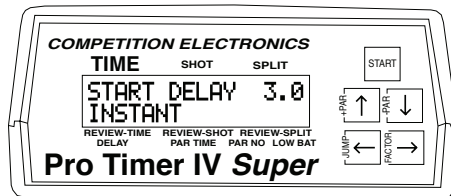
The par time screen looks like this when set to 1 - par time is now enabled.



- **Par Time settings:** Set the PAR to a value of 1-6 to enable the standard par time mode. Up to 6 par times can be entered in different memory locations. Use the UP / DOWN ARROW buttons to select the memory location number, then navigate the cursor LEFT to select the desired digit(s) to be changed. Time intervals are in seconds. You may start the PT4 from this screen to save time when frequently selecting different par times in this mode. Values are saved automatically.

### 3) START DELAY SCREEN

Choose the start delay that best suits your needs. INSTANT is suited for someone timing another shooter where no time is needed to make ready, RANDOM is suited for personal practice. FIXED could be used for both.



- **Select the type of start delay:** Choose from INSTANT, RANDOM, or FIXED start tone. The delay time shown on the screen only applies when set for FIXED operation. If you select INSTANT, the PT4 will start immediately upon pressing the start button. If you select RANDOM, the PT4 will start between 3.5 and 6 seconds after the start button is pressed. If you select FIXED, the PT4 will start at the set time shown on the display. To change this setting, navigate the cursor to the appropriate digit on the start delay screen and change the value with the UP / DOWN ARROW buttons. Settings are stored automatically.

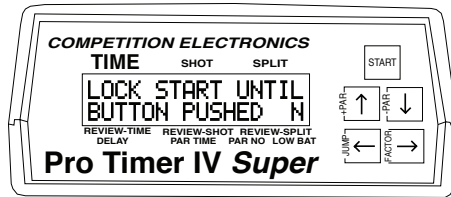
*(Standard Mode continued...)*

## 4) MODE SELECT SCREEN

See previous detail in SIMPLIFIED MODE

## 5) LOCKOUT START BUTTON SCREEN

This feature is intended to prevent accidental data loss while scoring.



Select Y (yes) to enable this feature using the UP / DOWN ARROW buttons. It is useful in matches to prevent accidentally pressing the start button and losing the shooter's time before it can be recorded. When enabled, you must first press any of the arrow buttons to unlock the start button.

## 6) HIT FACTOR (scoring) SCREEN

See previous detail in SIMPLIFIED MODE

## 7) RELAY OUT SELECT SCREEN

See previous detail in SIMPLIFIED MODE

## 8) PRINT SHOTS SCREEN

See previous detail in SIMPLIFIED MODE

# PRO TIMER IV SUPER

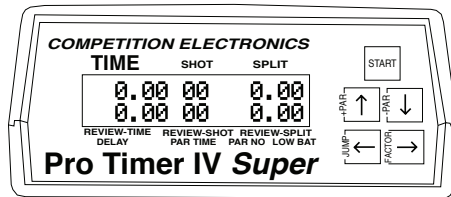
USER MANUAL / OPERATING INSTRUCTIONS

## EXTENDED MODE

This mode has eight separate screens and is the same as standard mode except for the par time features:

### 1) MAIN DATA SCREEN

You must start the PT4 from this screen or the Par Time setup screen.

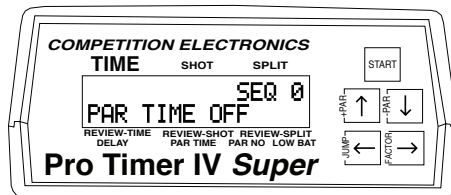


- **Current shot:** The top line of the display screen shows the last recorded shot time, number, and split time.
- **Review:** The bottom line of the display screen has the “Instant Review” feature. Select the review shot number by navigating the cursor and changing the digits to display the desired shot number time and split. It will retain this setting until the timer turns off or it is changed. This feature is useful if you want to repeatedly see the time interval between the same two shots during practice.

### 2) PAR TIME SCREEN

A “Par time” is a second beep used to signal a time limit for an event. The PT4 will record all shots before and after the par time beep.

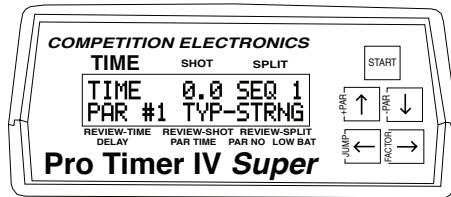
The par time screen looks like this when set to 0 for OFF



*(Extended Mode continued...)*

- **Par Time OFF:** Set the SEQ to 0 using UP / DOWN ARROW buttons when no par time is desired. The display screen will indicate that the par time is turned off.

The par time screen looks like this when set to SEQ 1



- **Par Time settings:** Set the SEQ 0 (sequence #) to a value of 1-6 to enable the extended par time mode. Up to 6 separate string/sequences of par time intervals can be entered by using the provided memory locations. Each string/sequence can have from 1 to 9 par time settings depending on your needs. If only three of the available nine par times are needed, simply set the extra six times to zero and they will be omitted from the string.

First, set the TYP- (type select) to either STRING or CONT(continuous).

- If you select STRING, the par time(s) you program will be run in order one time and stop.
- If you select CONT (continuous), the par time(s) you program will run in order (skipping any zeros) continuously until one of the RIGHT/LEFT/UP/DOWN ARROW buttons is pressed. To restart the continuous par times, press START again.

Then, set the Par Times for the sequence. Starting with PAR#1, navigate the cursor to change the digits following TIME on the display screen. When done, move the cursor back to PAR#, increment the number to 2, then repeat the process for all par times desired in the sequence. Values are saved automatically upon power down.

You may start the timer from the Par Time display screen or navigate back to the Main screen. Press START to begin, and if you are running a continuous sequence, press any of the ARROW buttons to terminate the sequence. The PT4 will record shots from the moment the PT4 is started regardless of the par time settings.

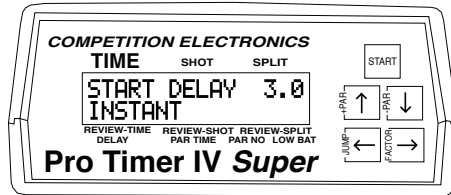
# PRO TIMER IV SUPER

USER MANUAL / OPERATING INSTRUCTIONS

*(Extended Mode continued...)*

## 3) START DELAY SCREEN

Choose the start delay that best suits your needs. INSTANT is suited for someone timing another shooter where no time is needed to make ready, RANDOM is suited for personal practice. FIXED could be used for both.



Select the type of start delay: Choose from INSTANT, RANDOM, or FIXED start tone. The delay time shown on the screen only applies when set for FIXED operation. If you select INSTANT, the PT4 will start immediately upon pressing the start button. If you select RANDOM, the PT4 will start between 3.5 and 6 seconds after the start button is pressed. If you select FIXED, the PT4 will start at the set time shown on the display. To change this setting, navigate the cursor to the appropriate digit on the start delay screen and change the value with the UP / DOWN ARROW buttons. Settings are stored automatically.

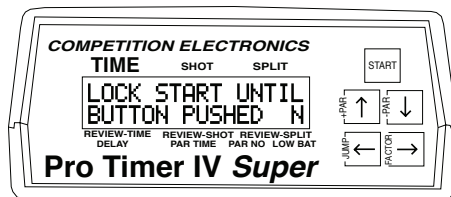
## 4) MODE SELECT SCREEN

See previous detail in SIMPLIFIED MODE

## 5) LOCKOUT START BUTTON SCREEN

This feature is intended to prevent accidental data loss while scoring.

The lockout start buttons screen looks like this:



*(Extended Mode continued...)*

Select Y (yes) to enable this feature using the UP / DOWN ARROW buttons. It is useful in matches to prevent accidentally pressing the start button and losing the shooters time before it can be recorded. When enabled, you must first press any of the arrow buttons to unlock the start button.

## **6) HIT FACTOR (scoring) SCREEN**

See previous detail in SIMPLIFIED MODE

## **7) RELAY OUT SELECT SCREEN**

See previous detail in SIMPLIFIED MODE

## **8) PRINT SHOTS SCREEN**

See previous detail in SIMPLIFIED MODE

# PRO TIMER IV SUPER

USER MANUAL / OPERATING INSTRUCTIONS

## INTERFACE JACKS

There are three 1/8" jacks on the bottom of your PT4 which can be used to further enhance it's operational capabilities.

- **Plate jack:** Intended for use with a steel plate to record shot times based on plate hits, this input allows you to connect a normally closed external switch to the PT4. When in use, the internal sound sensor is deactivated. A 2.5 second minimum time between each hit is implemented due to the characteristics of the switch. (we recommend OMRON model Z-15G-B7-K for use as a plate sensor) Connect an 18-22 gauge 2 conductor wire (stereo speaker wire works well) up to 300 yards in length between the switch and a 1/8" 2 conductor phone plug. If the connection is broken between the timer and switch, you will get a message PLATE/LINE OPEN on the display screen when the start button is pressed and will disable starting the timer.
- **Start Jack:** The start jack can be used two ways. It can start the timer remotely with the use of a normally open momentary switch, which is useful if the range officer can't be located near the shooter. It can also be wired to a second PT4 for a simultaneous start of both timers from one of the units which is used for man on man competition. To wire a remote start switch, connect a 2 conductor wire between a normally open momentary push button switch and a 1/8" 2 conductor phone plug. Insert the plug into the start jack on the PT4 and the timer will be activated by the switch. To simultaneously start two PT4 timers, connect a 2 conductor wire between two 1/8" 2 conductor phone plugs. Insert the plugs into the start jack of each timer. When the start button on one of the timers is pressed, both timers will be activated.
- **Relay Jack:** The ProTimer IV has a built in relay output jack that provides a signal output for interface with external devices such as turning targets, external horns, lights and other devices. Its function can be controlled by the menu selection entitled "Select Relay Out."



The output of the Pro Timer 4's relay jack will normally be connected to the Pro Timer 4's internal ground. When active, it will output the battery voltage (nominal 9VDC) at a maximum of 600 uA, dependent upon the current state of charge of the battery.

For interfacing to and controlling higher voltage/higher current devices, you will need an external device of some type. An auxiliary relay module is available from Competition Electronics. (See Accessories Section)

The Competition Electronics relay module is intended to provide a higher current/higher voltage switching interface for the Pro Timer 4 timer in order to control things such as turning targets, horns, lights and other auxiliary devices.

## ADVANCED CONTROLS

### SHOT SENSITIVITY ADJUSTMENT

Increase the shot sensitivity if your PT4 is not picking up all shots or decrease if registering echoes as "extra" shots.

The PT4 shot sensor sensitivity can be adjusted by using a small, flat screwdriver with approx. 1/8" blade. There is an adjustment potentiometer located in an opening between the START and PLATE jack on the bottom of the unit. It comes from the factory at a middle setting. Adjusting clockwise will increase the shot sensitivity. Putting tape over some of the holes for the shot sensor is another way to control the sensitivity.

### QUICK KEYS

The quick key feature provides shortcuts to more common screens with two button presses. To use this feature, you will always start by pressing and holding the LEFT ARROW button. Then you will press one of the following buttons to jump to the desired display screen.

START- Jumps to the MAIN screen

RIGHT ARROW- Jumps to the HIT FACTOR screen

UP ARROW- Jumps to the PAR TIME screen and will increase PAR/SEQUENCE #

DOWN ARROW- Jumps to the PAR TIME screen and will decrease the PAR/SEQUENCE #

## LIMITED WARRANTY

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COMPETITION ELECTRONICS, INC. warrants the Pro Timer 4 manufactured by it to be free from defects in material and workmanship for a period of 2 years from date of purchase by the original purchaser for use. COMPETITION ELECTRONICS, INC., at its option, will repair or replace without charge, or refund the purchase price of, any product which fails during the warranty period by reason of defect in material or workmanship found upon examination by COMPETITION ELECTRONICS, INC. to have been the cause of failure. This warranty does not cover any failures attributable to abuse, mishandling, and failure to follow operating instructions, alteration or accident.

To make a claim under this warranty, the purchaser must return the product to COMPETITION ELECTRONICS, INC. at the address shown above, properly packed and with shipping charges prepaid. All claims must be made within 30 days after the product failure, and in any event, within 30 days after the expiration of the 2 year warranty. All claims must be accompanied by the sales receipt or other written proof of date of purchase.

TO THE EXTENT PERMITTED BY LAW, ANY AND ALL IMPLIED WARRANTIES, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXCLUDED. ANY IMPLIED WARRANTIES NOT EXCLUDED ARE LIMITED IN DURATION TO 2 YEARS FROM DATE OF PURCHASE. INCIDENTAL AND CONSEQUENTIAL DAMAGES ARE EXPRESSLY EXCLUDED FROM THE REMEDIES AVAILABLE TO THE PURCHASER, AND THE REMEDIES PROVIDED IN THIS WARRANTY SHALL BE EXCLUSIVE TO THE EXTENT PERMITTED BY LAW.

(Note: Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the foregoing limitations and exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.)

If any product returned by the purchaser is found by COMPETITION ELECTRONICS, INC. to require service not covered by warranty, COMPETITION ELECTRONICS, INC. will so advise the purchaser and request further instructions.

COMPETITION ELECTRONICS, INC. will recondition to working order any Pro Timer 4 returned to it regardless of condition, upon the purchaser's remittance of payment of 1/2 of current retail price, if it is still manufactured by COMPETITION ELECTRONICS, INC.

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## SERVICE FOR YOUR PRO TIMER IV SUPER

For assistance with your PT4, use the information below.

**Competition Electronics, Inc.**

**3469 Precision Dr.**

**Rockford, IL 61109**

**Phone: 815-874-8001**

**Fax: 815-874-8181**

**[www.competitionelectronics.com](http://www.competitionelectronics.com)**

# PRO TIMER IV SUPER

USER MANUAL / OPERATING INSTRUCTIONS

## ACCESSORIES

### Hewlett Packard Portable Thermal Printer

Get an instant printout of your results with this high quality Hewlett Packard portable printer. Powered by 4 AA batteries or a 9 volt adapter (not included). Uses infra-red (wireless) communication. Portable thermal printer HP82240B includes paper.



### Relay Module

- Includes 25' cable for connection to the ProTimer 4
- 5 amp capacity
- Requires one 9 volt battery OR a 9-12 VDC power source wired to the unit
- Convenient screw terminals for connection to external devices

Use this device to control turning target systems or large horns/lights with your ProTimer 4.



## Vibration Switch

- Includes 25' cable for connection to the ProTimer4
- Mounting screws included

Use this device to record shot times from a steel plate hit. (The sound sensor is deactivated when the vibration switch is used).



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## Remote Start Switch

- Includes 25' cable for connection to the ProTimer 4

Use this device to activate the ProTimer 4 from a remote location.



# PRO TIMER IV SUPER

USER MANUAL / OPERATING INSTRUCTIONS

*(Accessories continued...)*

## **Simultaneous Start Cable**

Use for connection of two ProTimer 4 units in a "man on man" competition. Both units will start simultaneously when the start button of one unit is pressed.





OPERATING INSTRUCTIONS  
**PRO TIMER IV SUPER**

Revised August, 2015



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