

ULTRAK 485 60 - Memory Version
ULTRAK 493 300 - Memory Version
ULTRAK 494 EL Version
OPERATING INSTRUCTIONS



FEATURES:

SPECIAL MECHANICAL FEATURES:

- Mechanical Lock for stop Button
- Battery Hatch back, open by the rope holder

CHRONOGRAPH

- Display of Lap, split and running chronograph.
- Measure up to 9 hours 59 minutes and 59.99 seconds.
- 300 recallable lap and split memories for ULTRAK 493 and 494; 60-memory for ULTRAK 485.
- display of fastest (FS), Slowest (SL) and average (AV) lap times for the laps traversed.
- lap counter (00-999).
- Electro-Luminescent backlighted LCD in ULTRAK 494 only.

TIMER:

- Presetable countdown timer, maximum 10 hours.
- Automatically recycles upon completion of countdown and cycle counter to keep track of cycles counted.
- 30 seconds shuttle-countdown for timeout period timekeeping.

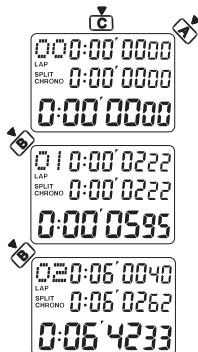
PACER:

- Presetable from 10 beeps/minute to 320 beeps/minute.
- Display of pacer frequency, beep counter and total time elapsed simultaneously.

CLOCK:

- Hour, minutes, seconds, month, date, day and year, auto calendar.
- Alarm hour and minutes.
- 12/24 hour and European calendar user option.

CHRONOGRAPH OPERATION



- Depress C to select the operating mode. The chrono indicator is shown. Depress A to start.

Remarks: user may move the lever, at the back of button A, to prevent accidental stop of the running chronograph.

- Depress B to read the 1st Lap time. LAP is shown at the upper row, SPLIT is shown at the middle row and the RUNNING CHRONO is shown at the bottom row.

- Depress B to display the 2nd Lap time. The 2 digit in dot matrix format at the top left corner is the Lap counter.



- Depress A to stop counting.

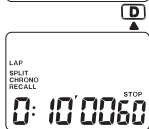
Remarks: make sure the button is unlocked before the operation.



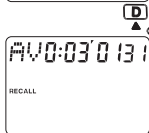
- Depress D to recall 1st Lap data (memory can be recalled anytime when the chronograph is either running or stopped).



- Depress D again to recall the 2nd Lap data.



- Depress D again to recall the stopped time.



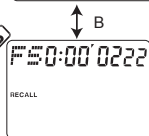
- At any time during the RECALL mode

- Depress A will display the average (AV) Lap time of the Laps traversed.

Remarks: if lap counter is > 999 or either Lap/aplit is grater than 9H 59M 59.99S, the AV information will be disabled, AV- - - - - will be displayed.



- Depress B will display the slowest (SL) Lap time of the Laps traversed.



- Depress B will display the fastest (FS) Lap time of the laps traversed. Repeated depression of B will display the fastest and slowest Lap times alternately.



- Another depression of the C button will return the chrono to the stopped status. (Depression of C at any time during recall mode serves the same purpose.) Depress A to restart counting or B to reset all memories.

Remarks: the stopwatch can recall the last lap and lap data entered before the memory capacity used up.

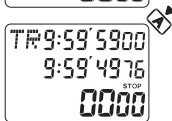
TIMER OPERATION



- Depress C to select the TIMER mode. Depress B to select digits and A to set digit. Digits will be advanced by + 1 for every depress of A. When the seconds digits are set, depress B to complete the setting process. The upper and middle row will show the same preset time. The 4 digit counter at the lower row will remain at 0000



- Depress A to start countdown. The timer can be started or stopped by depressing A. When the timer approaches zero, an output of 2 short beeps/seconds will sound for 15 seconds. (push of B, C or D buttons will stop the sound) The counter will advance by 1 and timer starts again immediately.



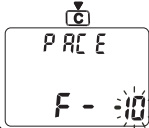
- When the timer is at stopped the condition, depress D will immediately start a 30 seconds shuttle countdown (for timeout time - keeping), Which is displayed at the top row. At the end of the 30 seconds a beep will be generated and the displays will return to the original status. Depress D while this countdown is in progress will terminate it immediately and the display return to its original status. Countdown will resume when A is depressed.



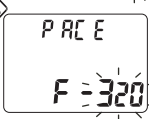
Remarks: (1) if the preset time is less than 30 seconds, only 2 beeps will sound on approach of zero. (2) When timer reaches zero while the stopwatch is in other modes, only 2 beeps will sound.



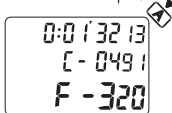
PACER OPERATION



- Depress C to select the PACER mode. The display will be as shown with the last 2 digits at the lower row blinking.

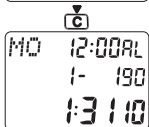


- At this status depress B will sequence the PACER frequency as follows: 10, 20, 30, 40, 60, 80, 120, 160, 240, 320.



- Depress A to start PACER. A beeping sound of 320 beeps/minute will sound. The total time elapsed will be shown on the top row, the beep counter at the center and PACER frequency at the lower row. The beep counter has a range of 9999. Depress A to stop PACER.

Remarks: Pacer will be reset if the stopwatch is switched to another mode.



- Depress C to select CLOCK mode. The alarm hour, alarm minutes, month, date, day, year, hour, minute and seconds are displayed as shown. Time setting can be done by means of depressing B to select digits and A to advance digits.

Remarks: alarm is automatically armed if alarm hour or minute has been set. Alarm can also be armed or disarmed by depressing C at normal time mode. When alarm is armed 'AL' is flashing and when not armed 'AL' is not flashing. When the alarm time is reached and the alarm is armed, an output of 3 short beeps/second will sound for 15 seconds. Remarks: if the alarm time is reached when the stopwatch is in other modes, the alarm will only sound 3 short beeps.

CARE OF YOUR STOPWATCH

WATER RESISTANCE

- The stopwatch is designed to withstand accidental contact with water such as splashes or rain, but it is not designed for use in water. Do not operate the buttons when the stopwatch is wet.

TEMPERATURE

- Do not leave your stopwatch under direct sunlight or in very high temperatures for a long time, the display may become black. Do not leave your stopwatch in very low temperature as this may cause a slight time loss or gain and the change of digits becomes slow. In both cases the above conditions will be corrected when the stopwatch returns to normal temperature.

SHOCKS

- Be careful not to drop your stopwatch or hit it against hard surfaces as it may cause a mechanical damage.

STATIC ELECTRICITY

- The integrated circuit in your stopwatch can be affected by static electricity. If the static electricity is very strong, a permanent damage can occur. Be careful of the screen of the TV set and the wearing of clothing made of synthetic material in dry weather; in such cases a very strong electricity can be generated.

MAGNETISM

- Not affected

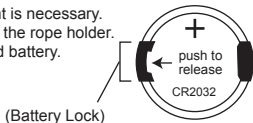
CHEMICALS

- Do not expose your stopwatch to solvents such as gasoline and alcohol, spray of cosmetics, cleaners, paints etc as they may cause damage to the stopwatch.

BATTERY CHANGE

When the display becomes dim or faded out, battery replacement is necessary.

1. Turn the battery cover off from close to open position by using the rope holder.
2. Push the Battery Lock in the direction shown to release the old battery.



3. Install a fresh lithium battery CR2032 into the battery holder, please make sure the Battery Lock is in the position shown.
4. Re - install the battery cover, turn the dot from open to close position.

CALIFORNIA, USA ONLY

This Perchlorate warning applies only to primary CR(Manganese Dioxide) Lithium coin cells sold or distributed ONLY in California USA.

*Perchlorate Material-special handling may apply. See www.dtsc.ca.gov/hazardouswaste/perchlorate.