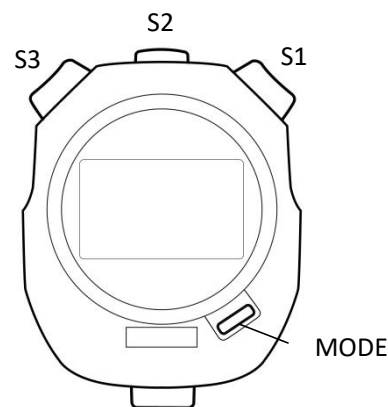# MULTI-FUNCTION STOPWATCH USER MANUAL

Abstract

-Model DT495P

-Size 80mm * 62mm * 22mm (excluding rope buckle)

-Weight 60g

-Accuracy of 1/100 sec

-Maximum timing of 9 hours 59 minutes and 59 seconds

-Water resistant for daily use (can be rinsed with cold water, do not use used underwater)

-Battery: CR2032 battery or equivalent battery

Function

-LED backlight

-500 memories

-Chronograph (LAP / SPLIT / TOTAL time)

-Record the read (Fastest / Slowest / Average time)

-Dual mode memory BLOCK Mode (Single / Multiple memory)

-Countdown (max. 9:59:59)

-Pacer mode (F10-F320)

-Stroke mode (with chronograph)

-Calendar

Mode Guide

-Press **MODE** for the first time to light the screen for 5 seconds and press **MODE** again within 5 seconds as the mode switch

-When the screen is lighted up, press any button to extend the light for 5 seconds
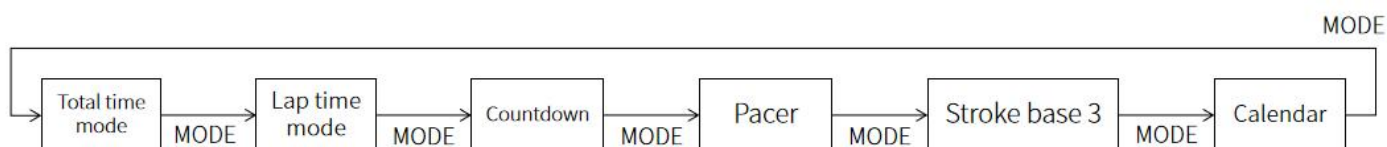
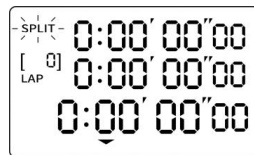

Dual Memory Mode

Single group memory

The current records can be review before a new chronograph start. The previous set of records will be automatically overwritten by the new chronograph record.
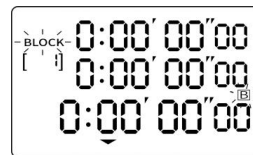
Multiple memory

Under the multiple memory, one single group memory is stored as one BLOCK in RAM. Records storage depends on the number of laps, regardless of the number of blocks. Such as a stopwatch with 500 memory, 10 laps in one block and totally 50 blocks can be stored.

When the memories reaches the maximum, the new data will not be recorded, and the screen will display [Full], and the old data needs to be cleared for the new data to store.

The stopwatch will automatically clear the recorded data when switching between [Single group memory] and [Multiple memory].
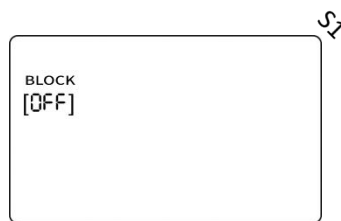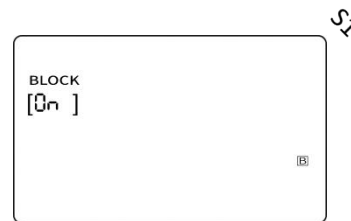
Single group memory   Multiple memory

Single group / multiple memory switching

-Press **MODE** to the calendar mode,

-Press **S3** continuously to display [BLOCK],

- [OFF] flashing indicates stopwatch is in single group memory mode,

- [ON] flashing indicates stopwatch is in multiple memory mode, which displays [Ⓑ] in screen,

-Hold pressing **S1** to switch the [ON / OFF] of the BLOCK.

In single group memory   In multiple memory

Chronograph Mode

-Press **MODE** to Chronograph Mode,

One step chronograph

-Press **S1** to start → Press **S1** to stop → Press **S3** to reset,

Multi step chronograph

-Press **S1** to start → Press **S1** to stop →…（Repeat）…→ -Press **S1** to start → Press **S1** to stop → Press **S3** to reset,
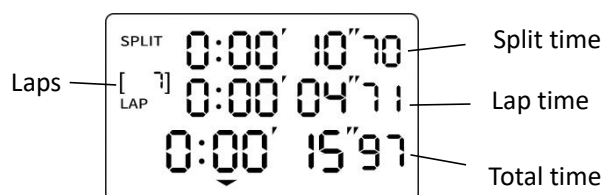
Segment chronograph

-Press **S1** to start → Press **S3** to record（segment 1）→ Press **S3** to record（segment 2）→ Press **S3** to record（segment 3）→……→ Press **S1** to stop → Press **S3** to reset.
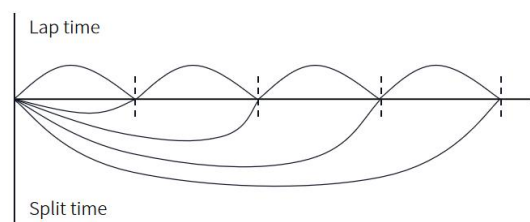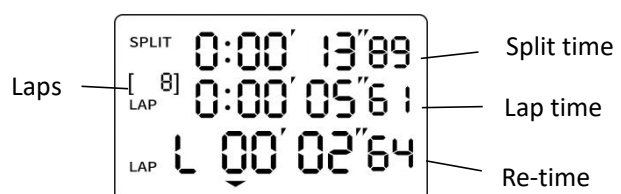

Total Time mode

1.Split time: Total time after pressing **S3**

2.Lap time: Time between two times pressing **S3**

3.Instant total time

Lap Time mode

1.Split time: Total time after pressing **S3**

2.Lap time: Time between two times pressing **S3**

3.Re-time every laps

Memories Recall

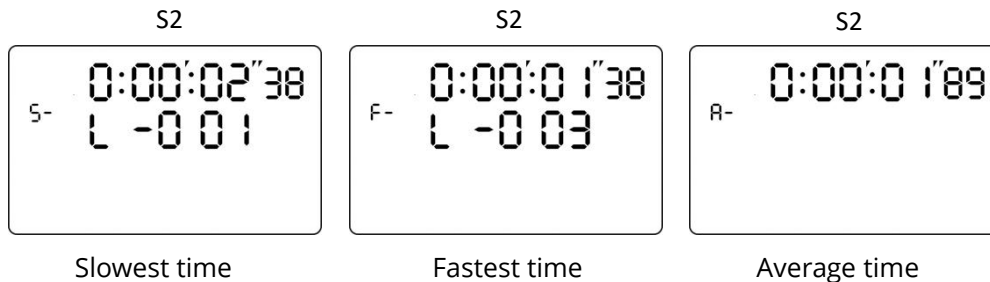## Single-group memory recall

Records can be read either in the timing or at the end of the timing.

-Press **S2** to enter the recall mode, continue press **S2** to view the slowest, fastest and average scores,

Slowest: [S-] the slowest score, the slowest score laps
Fastest: [F-] Fastest score, fastest score laps
Average: [A-] Average score

S2	S2	S2
S- 0:00:02"38 L -0 0 1	F- 0:00:01"38 L -0 0 3	A- 0:00:01"89
Slowest time	Fastest time	Average time

-Press **S1** to read the records in ascending order,
-Press **S3** to read the records in descending order,

S3   S1

```
        0:00' 08"89
[ _ 3]  0:00' 03"7 1
LAP

RECALL
```

-Press **MODE** switch back to the Chronograph Mode

Multiple memory recall

-Press **S2** to read the records in descending order when Chronograph running,
-The number below the BLOCK indicates the currently recorded group,
-After reset, press **S2** to BLOCKs recall mode,
After timing to zero, press **S2** to enter the recording group interface,

```
   20 23              — Year 2023

        3 28          — Date 28th March
              B
   M CH  0 08          — The 8th blocks
RECALL  ▾
```

-Press **S3** to select the BLOCK to review,
-Press **S2** to enter the recall mode, continue press **S2** to view the slowest, fastest and average scores,

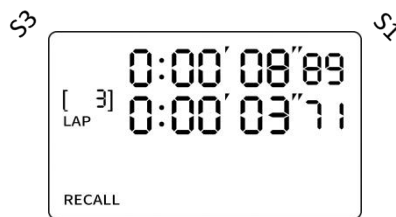Slowest: [S-] the slowest score, the slowest score laps
Fastest: [F-] Fastest score, fastest score laps
Average: [A-] Average score

-Press **S1** to read the records in ascending order,
-Press **S3** to read the records in descending order,
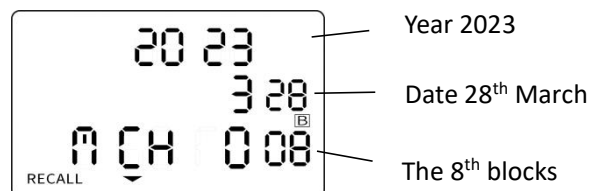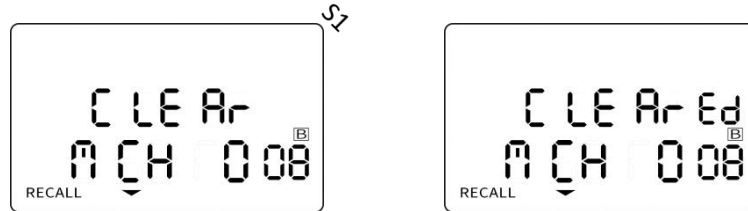-Press **MODE** switch back to the Chronograph Mode.

Memory Delete

When the record is fully loaded, the stopwatch cannot record new data, and the data needs to be deleted by clearing the record operation.

-After reset, press **S2** to BLOCKs recall mode,

-Hold pressing **S1** will shows up [CLEAr] indicates clearing records，when [Ed] shows up indicated the currently BLOCK is deleted,


-Keep hold pressing **S1** will shows up [CLEAr All] indicates clearing all records，when [Ed] shows up indicated all BLOCKs are deleted.
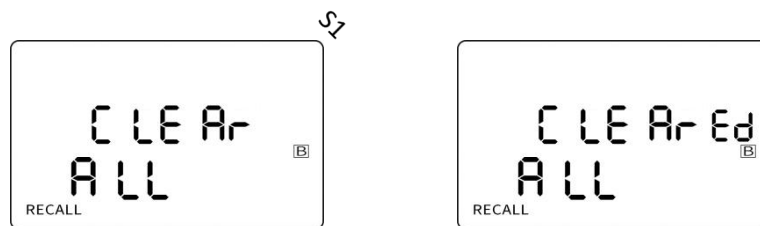
-The stopwatch will automatically clear the recorded data when switching between [Single group memory] and [Multiple memory].

Count Down Mode

Maximum countdown 9 hours, 59 minutes and 59 seconds, and it can be set up to 9,999 times.

- Set countdown time
- Running countdown time
- Lopping times
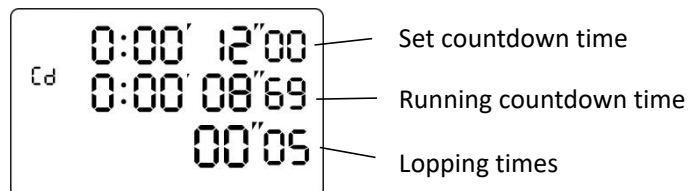
-Press **MODE** to Count Down mode,

-Hold press **S3** until the first line flashing,

-Press **S3** to set the count down time.
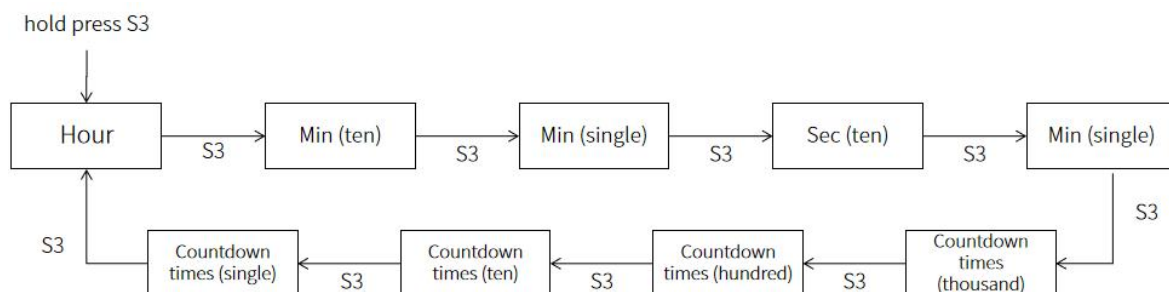
-If the countdown number of times is 0, the countdown times will be recorded,maximum record 9999 times,

-Press **MODE** or wait for 60 seconds to complete the countdown setting.

Countdown operation

-Press **S1** to start → Press **S3** to pause → Press **S3** to stop,

-After the countdown is set, press **S3** to clear the countdown setting.

Pacer Mode

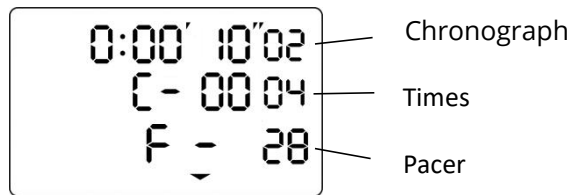Beats from 10 to 320 per minute.

```
      PACE

      F - 28
         ▾
```

Pacer operation
-Press **MODE** to Pacer mode,
-Press **S3** to set pacer, hold and press will add up automatically,
-Press **S1** to start → Press **S1** to stop → Press **S3** to reset,

```
  0:00' 10"02      —— Chronograph

      C- 00 04     —— Times

      F - 28       —— Pacer
         ▾
```

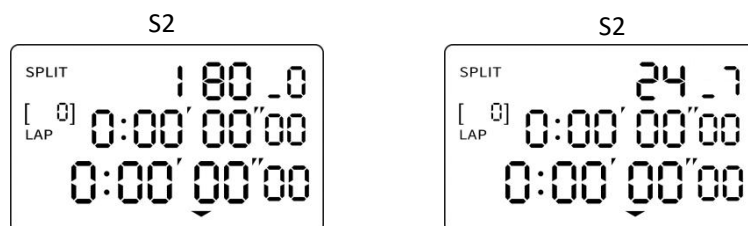-After reset, press **S3** to the setting mode.

STROKE BASE 3 Mode

STROKE BASE 3 Mode is to measure the time within three movements, automatically calculate the movement frequency per minute, and the number of movements that can be calculated per minute is 10 to 180 times.

Example: When the athlete does the first paddle,start the STROKE BASE 3 and stops when the third stroke is completed. STROKE BASE 3 Mode displays "24_7", which means that the athlete trains at the current frequency and can paddle 24.7 times per minute.

```
  SPLIT        0 _0     —— Stroke Base 3
  [  0]
  LAP  0:00' 00"00
       0:00' 00"00      —— Chronograph
            ▾
```
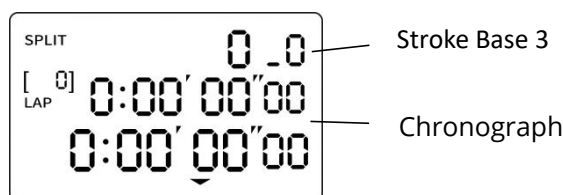
Stroke base 3 operation
-Press **MODE** to Stroke base 3 mode,
-Press **S2** to start (display 180 and flashing)→ Press **S2** to stop.

```
         S2                        S2

  SPLIT     180 _0       SPLIT      24 _7
  [  0]                  [  0]
  LAP  0:00' 00"00       LAP  0:00' 00"00
       0:00' 00"00            0:00' 00"00
            ▾                      ▾
```
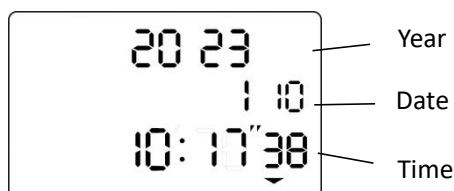
-If stop less than 1 second or more than 18 seconds, the [Err] shows up, as the frequency is out of range.

With the Stroke base 3 runnung, the chronograph can be run.

CALENDAR and TIME

Calendar and time setting

-Press **MODE** to calendar mode,

-Press **S3** to select, Press **S1** to set,

-When setting minute, hour, year, month and day, press **S3** to add up. When setting second, press **S3** set to 00.

RESET

-Press **S1, S2, S3** and **S4** at the same time can factory reset the stopwatch.

BATTERY CHANGING INSTRUCTIONS

Battery life: 2 years

Battery type: CR2032 Lithium or Equivalent

Avoid touching any electrical components on the PCB when the back cover is removed.

When the display becomes dim or turned off, battery replacement is necessary. Unscrew and remove the back cover. Push the left hand side of the battery holder. Battery will slide out. Replace a new Lithium battery CR2032 or equivalent with positive side facing up. Connect the two AC pads one second using a metal tool such as paperclip or screwdriver. Re-screw the back cover.

IMPORTANT: Power up and Reset

If you have a problem with the stopwatch when you replace new battery, you can try to reset the electronic circuit by using a metal paperclip or screwdriver to connect the 2 metal pads in the "AC" pad near the battery.

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.