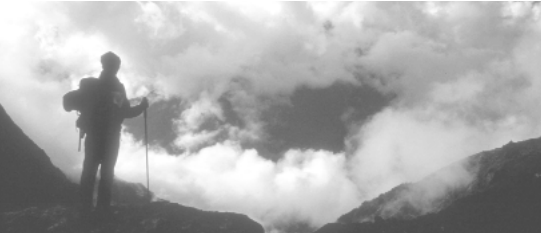
TrailDrop ■ TerraTech



HIGHGEAR® TECHTRAIL®

INSTRUCTION MANUAL

TerraTech

TrailDrop

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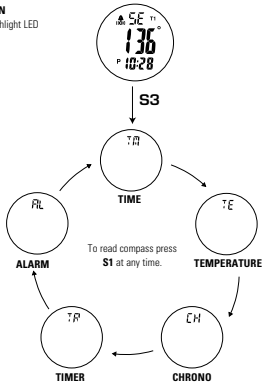
L.E.D Flashlight

Level Bubble



HOW TO USE ELECTRONIC COMPASS FEATURE

Compass must be calibrated before first use.

Press **S1** to take compass reading. For accurate reading, make sure to level the compass using the level bubble.

CAUTION: The Digital Compass function is very sensitive to magnetic and electric fields. The direction will be affected by nearby magnetic or electronic devices.

CALIBRATION: Allows user to align the Compass magnetic sensor with the earth's magnetic field so that the Compass can detect the correct direction. With the declination angle added, the magnetic North will be adjusted by the clockwise shift or anti-clockwise shift of this angle, giving you the true North reading. The range of declination angle is 00 E to 99 E and 00 W to 99 W. The declination angles for major world cities are listed on the following page.

DECLINATION: The difference in degrees, or angle, between North and magnetic North.

TRUE NORTH: Also, known as geographic North, this is map North (North Pole)

MAGNETIC NORTH: The geographical region toward which all magnetic needles point. This point is 1300 miles south of the North. (This is why it's important to calibrate!)

The declination angles for major world cities are included.

CITY	DECLINATION ANGLE	CITY	DECLINATION ANGLE
Anchorage	22 E	New York City	14 W
Atlanta	4 W	Orlando	5 W
Bombay	1 W	Olso	2 W
Boston	16 W	Paris	2 W
Calgary	18 W	Rio De Janeiro	21 W
Chicago	5 W	San Francisco	15 E
Denver	10 E	Seattle	19 E
Jerusalem	3 E	Shanghai	5 W
London	4 W	Toronto	11 W
Little Rock	3 E	Vancouver	20 W
Livingston, MT	14 W	Washington DC	10 W
Munich	1 E	Waterbury, CT	14 W

To locate declination angle in your city not listed in this chart, go to www.ngdc.noaa.gov.

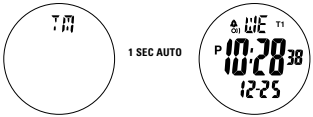
HOW TO CALIBRATE COMPASS

- Press **S1** to enter compass mode, then press and hold **S4**, "CAL" will be displayed.
- Holding the unit on a flat surface, rotate the unit three times 360 degrees clockwise, each rotation lasting between 10-15 seconds, then press **S4** to end calibration.
- Set the flashing digits in 00 degree to the declination in your area (**S2** is for adjusting and **S3** is for selecting), after the setting is complete press **S4** to set.
- To exit to another mode, press **S3**.

TIME MODE

Normal time mode displays the hour, minutes, seconds, month, date and day of the week. You can also toggle between 12 hr and 24 hr time display. Also, you can select two time zones, "T1" and "T2".

- Press **S3** until "TM" is displayed
- Press **S2** for 3 seconds to switch from "T1" and T2".
- Press **S4** for 3 seconds to make adjustment; the digits start to flash, then press **S3** to select the position, when digits are flashing, press **S2** to adjust the seconds, minutes, hours, date, month, day of the week and year, and toggle between 12hr and 24hr time display. After the setting is complete press **S4** to set.



TEMPERATURE MODE

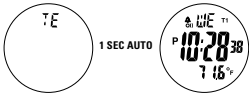
You can toggle between F or C display. You can also offset the displayed temperature +4 degree from the detected temperature. For example, if the TerraTech/TrailDrop shows 77F (detected temperature) and another thermometer shows 74F then you can set the TerraTech/TrailDrop to show 74F (displayed temperature), and from then onwards, displayed temperature is offset by -3 degrees from the detected temperature.

- Press **S2** for 3 seconds to toggle between F or C display

HOW TO OFFSET TEMPERATURE

- Press **S3** until "TE" displays.
- Press **S4** for 3 seconds to start the offsetting process; the digits start to flash. Press **S2** to adjust and press S3 to select. After the setting is complete press **S4** to set.

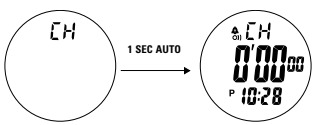
NOTE: When unit is worn, body heat can cause an increase in temperature reading.



CHRONOGRAPH MODE

The chronograph counts up in 1/100 sec resolution with working range of 24 hours.

- Press **S3** until "CH" is displayed.
- Press **S2** for start / split operation, press **S2** again and "SPL" will be displayed when split is selected.
- Press **S4** to stop the running chronograph, and hold **S4** to reset the stopped chronograph back to zero.



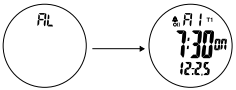
TIMER MODE

Timer mode present the count down time at the upper row and the current time at the lower row.

"CS" Count Down Stop
"CR" Count Down Repeat
"CU" Count Down Up
Working range of the timer is 24 hours with the resolution of 1 second.

TO OPERATE TIMER MODE

- Press **S3** to timer mode "TR".
- Press **S4** for 3 seconds to start setting timer time and timer function; the digits start to flash.
- Press **S3** to switch between seconds, minutes and hours, press **S2** to adjust desired numbers. Press **S3**, when "CS" is flashing, press **S2** to change to "CR" or "CU" or remain with "CS" mode.
- Press **S4** to exit setting, then press **S2** to start timer and **S4** to stop.

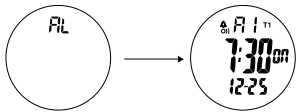


ALARM MODE

Displays Hour and Minute Alarm Setting

Displays to set the desired hour and minute alarm. The alarm sound repeats everyday if the alarm mark is in the "on" position. There are two alarms, "A1" and "A2".

- Press S3 until "AL" is displayed
- Press S2 to select "AL" (chime), "A1" (alarm 1) and "A2" (alarm 2).
- Press S2 for 3 seconds to toggle the alarm mark and chime mark on ("on" shown) or OFF ("- - " shown). When the chime mark is ON, there is a beep sound every hour and confirmation key tone every time a button is pressed.
- In "A1" or "A2" display, press S4 for 3 seconds until the digits start flashing; then press S3 to select hour, minutes, month, day and T1/T2. Press S2 to adjust desired number.
- Press S4 to set the Alarm and exit adjust mode.



BATTERY REPLACEMENT

If the LCD display or LED light is dim, replace the battery with the following:

LED Light: V392 x 3

TerraTech: 2032 x 1

TrailDrop: SR936SW x 2

REMARK: Compass mode EL backlight and LED flashlight cause large consumption of the battery power.

Printed in China

HIGHGEAR® TECHTRAIL®

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One Year Limited Warranty

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