

## THE INSTRUCTION MANUAL

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#### I. GATE SCHEME AND DESCRIPTION OF ITS PARTS.

- 2a- receiving gate
  - 2b- transmitting gate
  - 3-transmitting diode (LED) projector
  - 4-receiving diode(LED) lens
  - 5-signalization diode of proper gates' setting
  - 6- switch-on signalization diode
  - pulsating of the diode means low battery
  - 7-switch of the device
  - 8- charging plug
  - 9- transmitting antenna
  - 10- fixing poles
- The start gate is blue, the finish gate is red.

#### II. ASSEMBLY AND SETTING OF THE GATES

1. Drill 2 holes (30-35 mm diameter) to put in 2 fixing poles.  
For start gate distance between poles should be 1-3 metres and for finish gate up to 8 metres.
2. Put the fixing poles into the holes vertically down. Make it sure they are fixed vertically.  
When taking out poles, twist the poles slightly clock-wise and pull out.
3. The start gates(2a,2b) should be set so that transmitting diode(3) could see receiving diode(4).  
To help a proper setting follow the tips on the photo-cells.
4. If the start gate is correctly set, it should be signalized by red signalization diode (5) die down and beeping stop.

The same procedure applies to the finish gates.

#### REMEMBER !

The start gate is BLUE, the finish is RED

#### III. COMMUNICATION BETWEEN SYSTEM ELEMENTS.

All 3 systems elements ( Start gate, finish gate and display board) should " see" each other as shown on the draw.

The range from start to finish is about 500 m

#### IV. CHARGING THE BATTERIES OF THE GATES

Fully charged batteries should work all day long. To make the batteries ready for the next day they must be re-charged during the night.

The set contains a special charger that can charge all the gates simultaneously. The gates should be charged in a dry place.

#### v. DISPLAY BOARD

The display board must be connected to the battery.

It shows:

- green light(the competitor is free to go)
- red light(the competitor must wait)
- time result in seconds
- average speed in km/h

You should fix the supporting poles to the display board and put it on the slope.  
For safety reasons mark the display board with the safety net.

## VI. CONFIGURATION OF THE SYSTEM.

Results can be displayed as long as you wish by using menu set-up ( using pilot).

Description of pilot buttons

Button 1 Set-up of whole seconds

Button 2 Set-up of tenths of seconds

Button 3 Set-up of hundredths of seconds

Buttons 4,5,6 not active for now

Button 7 menu set-up (clicking button 7 changes position of menu)

Button 8 menu set-up exit and saving changes

Step-by-step system configuration

1. Enter main menu by pressing button 7. On the display you will have digit 1, which means position 1(distance).
2. Enter the distance using the buttons 1,2,3 (in metres).
3. Further clicking button 7 you will change configuration positions. There are 4 positions.
4. By clicking button 8 you save the settings and exit.

Position 1 - distance in metres

Position 2 - ski ride time limit display in seconds

Position 3 - time of result display in seconds

Position 4 - time of average speed display in seconds

If you do not want to display average speed or time, enter 0 seconds.