USER'S GUIDE

Settop Athletics









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SETTOP Athletics ENG







Introduction

SETTOP Athletics is an **application** developed by Al-top Topografía for **Trimble Access**. It enables measuring records in athletic meetings. Supported sports are: Shot Put, Discus Throw, Hammer Throw, Javelin Throw, Long Jump and Triple Jump.



5



Jobs

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🐌 Athletics - Job: atletics\S 💿 🖉 ? 🗕 🗙 → 20% → 10% 1 S 0.000 1 +0 ? Мар Jobs Competition Menu Favorites Switch to HA:8.3039gon VA:123.5330gon Exit Enter 10.001 +> 0 ? - X 훩 Job New job Open job **Review** job Point manager Copy between jobs **Properties of job** HA:8.3051gon VA:123.5331gon

Accept

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Competition

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📡 Athletics - Job: atletics\S 🗔 🥥	? – X
	■ 20% ■ 10%
	S 0.000
	+0 1 ?
Jobs Competition	Мар
	Menu
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Exit HA:8.3039gon VA:123.5330gon	Enter
📡 Competition Setup 🛛 🔊 🥥	? _ X
Competition: Type:	D 20%
Long Jump 💌 Men 💌	a s
	0.000
	1 <mark>4</mark> +0 1 ² ?
Championship Record: Meeting Record:	Мар
Championship Record: Meeting Record:	M <u>e</u> nu
	F <u>a</u> vorites
	S <u>w</u> itch to
HA:8.3039gon VA:123.5354gon	Next

You choose the desired type of competition between 6 sports and mode (Men / Women).

You can include the Championship and Meeting records, to serve as reference for the results.

Competition S	Setup 🔊	
Long Jump	Men 🔽	
Long Jump Triple Jump Shot Put Disc Throw		₿ <u>0.000</u> \$ 1 1 2
Hammer Throw Javelin Throw	Meeting Record:	Map Menu
?	?	Favorites
		Switch to
HA:8.3031	jon VA:123.5342gon	Next



All sports can be divided in 2 groups: *Horizontal Jumps* and *Throw Events*. Measurements are done in Face 1. If total station is a Servo or an Autolock system and is in Face 2, it will change to Face 1 automatically when we press *Measure*.



Horizontal Jumps



It is the same procedure for *Long Jump* and *Triple Jump*.

Once the sport type is selected you will see Start competition and Export results. Also we have "RS232" button to configure the data output of athlete records.



The output data formats are RFEA (Spanish Athletic Federation) and Trimble Sports.

RS232	- 3 O) ? - X
Output Format:	· · · · · · · · · · · · · · · · · · ·	■ 80% ■ 30%
RFEA 💌		- 30% - E
Port details	Baud rate: 9600	0.000
Data bits: 8	Parity:	Мар
Stop bits:	Flow control:	M <u>e</u> nu
1	None	Favorites
		Switch to
HA:27°40 Esc	'33" VA:90°29'19"	Accept

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RS232	->	0 ? - X
Output Format:	7	■ 80% ■ 30%
None RFEA Trimble Sports	Baud rate: 9600 V	S 0.000 + +0
Data bits: 8	Parity:	Map
Stop bits:	Flow control:	M <u>e</u> nu Favorites
1	None 🔽	S <u>w</u> itch to
Esc HA:27%	40'33" VA:90°29'19"	Accept

Horizontal Jump competitions need a reference line. You have to measure 2 points of this reference line.

📡 Define Re	ference Line	-> O	? - X
Start point name End point name:			20% 10% 0.000 0.000
			1 <mark>11</mark> ? Map M <u>e</u> nu
			- F <u>a</u> vorites
			S <u>w</u> itch to
Cance HA:8.	3035gon VA:123.53	35gon	

You can select reference points from a list (if these points have been already measured and they have the same station setup reference) or measure them.

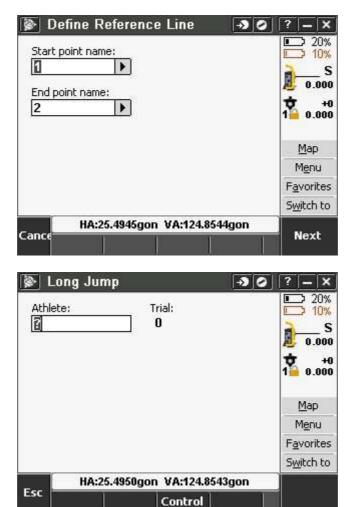
1	14 ?
	Мар
	Menu
	Favorites
	Switch to
gon VA:123.5335gon	
	jon VA:123.5335gon

If you choose *Measure*, you can enter a code and target height.



🖗 Measu	re topo		-> 0	? - X
Point name:		Code:	1000	20%
1		2	•	10%
Target height: 0.000m)			S 0.000 0.000 0.000
	al angle:		3.3037gor	Manu
Vertical a	ngle:	123	3.5336gor	Favorites
Slope dis	tance:		2.165n	Switch to
	4:8.3037ga	on VA:123	.5336gon	
Esc	1	1	Options	Store

You have to repeat same operation for second reference point. It enables *Next* button and you can continue.



If we have configured a data output and comm port is used for other applications, it will shows an error message.

In S Series the cable must be connected.





Before starting athlete measurements, you can measure control points to ensure proper jumps measurements. To do this you have to press *Control.*



It is possible to store Control points pressing Store.

You can enter *Athlete* name using alphanumeric characters (name) or numerical (number). Once you enter athlete name you will see *Trial* number. If a trial is valid, you can measure it pressing *Measure* button.





If it is a non-valid trial you have to press *Fail* button, and the record will be stored with **X** symbol.

📡 Long Jur	np	->0 ? - X
Athlete: 145	Trial: 1	20% 10% 0.000
Score:		+0 1 0.000
de la		Menu
		Favorites
		S <u>w</u> itch to
Cance HA:2	5.4949gon VA:124.8	544gon Store

If athlete discard a trial you have to press *Discard* button, and the record will be stored with - symbol.

🐌 Long Jurr	1p	-> 0 ? - X
Athlete: 145	Trial: 1	20% 10%
Score:	2	+0 1 0.000
di:		Menu
		Favorites
		S <u>w</u> itch to
Cance HA:25	.4949gon VA:124.85	14gon Store

After measuring, record will be showed. You can store it pressing Store button.

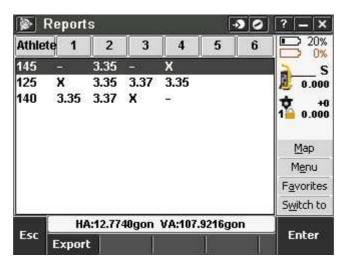




Measured distances will be recorded to the nearest 0.01m below the distance measured if the distance measured is not a whole centimetre, but you can also see the distance in mm.

After that, you can measure a control point (pressing *Control*), check the results (pressing *Reports*) or measure the record of the next athlete.

This is the process until the end of the competition.

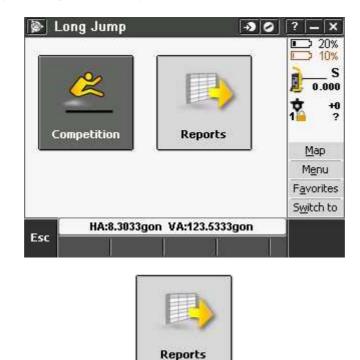


You can see the number of athletes and the results for everyone. You can export the results pressing *Export* and create an ASCII file.





To end the competition, you have to press *Esc* until main menu.



If you press Reports you will see competition results. Also it is possible to export results



to an ASCII file.



Throwing Events

It is the same procedure for *Shot Put, Disc Throw, Hammer Throw* and *Javelin Throw*.



Once the sport type is selected you will see Start competition and Export results. Also we have "RS232" button to configure the data output of athlete records.

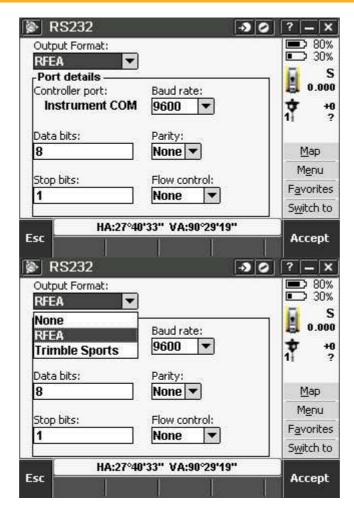


The output data formats are RFEA (Spanish Athletic Federation) and Trimble Sports.

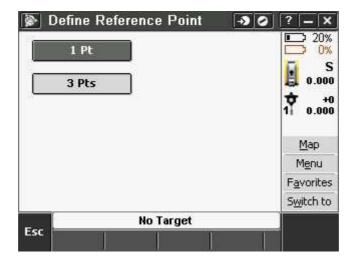
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Throwing Events need a reference point. You can measure the center or measure three points of the throwing circle.



You can choose 1 point (center).



Reference Point:	
Easting: ?	× 0.000 +0 1 0.000
Northing: ?	Map
Elevation:	Menu
?	F <u>a</u> vorites
	S <u>w</u> itch to
Esc	

You can select a reference point from a List (if this point has been already measured and it has the same station setup reference) or measure it.

Define	Referen	nce Point 🛛 🔊 🥥	? - X
Reference P Easting:	oint:	List Wildcard search Fast fix Measure	20% 0% 0.000 0.000
Northing:			
?			Мар
Elevation:			Menu
?			Favorites
			Switch to
Point name:		Code:	100%
Target height:			S
0.000m	Þ		≝ 0.000 ★ +0 1 0.000
Horizonta	al angle:	6.1565gon	Мар
Vertical a		124.5363gon	M <u>e</u> nu
Slope disl	12	2.087m	F <u>a</u> vorites
		2000033000	Switch to
Esc H/	A:6.1572g	on VA:124.5365gon	
	-		Store

Once the point is measured and stored you will see its coordinates.

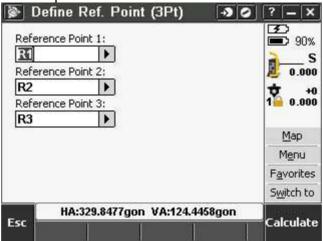


🖗 D	efine Reference Point 🛛 📑) () ? _ X
Refe	rence Point:	⊡ 100% 100%
Easti 200	ng:)1.925	₩ 0.000 +0 1 0.000
North 999	ning:).813	Мар
Eleva	ation:	M <u>e</u> nu
-0.	-0.785	
		Switch to
Esc	HA:6.1574gon VA:124.5388gor	Next

You can choose 3 points for calculating the center of the throwing circle.

De 🧟	efine Ref. Point (3Pt) 🛛 🔊 📀	? – X
Refere ?	ence Point 1: ence Point 2: ence Point 3:	2 90% 0.000 0.000 0.000 0.000
?		Мар
		Menu
		Favorites
		Switch to
	HA:6.1576gon VA:124.5394gon	
Esc		

You can select a reference points from a List (if these points have been already measured and they have the same station setup reference) or measure them. Measuring order it is not important.



Once you have 3 throwing circle points, you can press Calculate and you will see the calculated diameter (Computed Distance) and Error regarding technical IAAF specifications. If you are agree with this result press Next. Athlete records will be computed using this result.



Reference	Point 1:	
R1		a s
Reference	Point 2:	N 0.000
R2		ф н
Reference	Point 3:	0.00
R3		
		Mapa
		Menú
Distancia C		
Distancia C 2.503	Calculada: Error: 0.368	Menú Favoritos Cambiar a

If we have configured a data output and comm port is used for other applications, it will shows an error message.

In S Series the cable must be connected.

ا <u>چ</u>	_ong Jump		-90	? - ×
				0.000
c		ing Comm Port		+0 ? Map
	<u>O</u> K			Map Menu Favorites
				Switch to
Esc	HA:27	°40'33" VA:90°2!	9'19"	
		Control	Reports	

You can start athlete record measurements. Also, It is possible to check throwing circle measuring control points.

🖗 Sł	not Put	Ð	0 ? - X
Athlet	e:	Trial: O	80% 90% 0.000 0.000 0.000
			Мар
			M <u>e</u> nu
			Favorites
			Switch to
-	HA:6.1560go	n VA:124.5395gon	
Esc		Control	





You can enter *Athlete* name using alphanumeric characters (name) or numerical (number). Once you enter athlete name you will see *Trial* number. If a trial is valid, you can measure it pressing *Measure* button.

	Shot Pi	ut	-> 0	? – X
Athi		Trial:		90% 90% 0.000 0.000 0.000
				Мар
				Menu
				Favorites
				Switch to
HA:14.3373gon VA:107.8673gon				
Esc	Fail	Discard	Reports	Measure

If it is a non-valid trial you have to press *Fail* button, and the record will be stored with *X* symbol.





If athlete discard a trial you have to press *Discard* button, and the record will be stored with - symbol.

Sh	ot Put	-> O	? - X
Athlete 145	: Trial 5	1	■ 80% ■ 90% ■ S 0.000
Score:	SCAR		+0 1 1 0.000
			Мар
			Menu
			Switch to
-	HA:12.4565gon V	A:107.8578gon	
Cance		Reports	Store

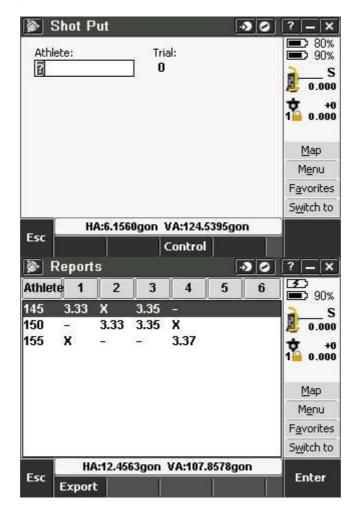
After measuring, measured distance will be showed. You can store the record pressing *Store* button.

Measured distances will be recorded to the nearest 0.01m below the distance measured if the distance measured is not a whole centimetre, but you can also see the distance in mm.





After that, you can measure a control point (pressing Control), check the results (pressing Reports) or measure the record of the next athlete. This is the process until the end of the competition.



You can see the number of athletes and the results for everyone. You can export the results pressing Export and create an ASCII file.

🖗 Ex	port 🌖 🖉	? -X
File nar	ne:	20% ■ 90%
		₿ 0.000 ★ +0 1 0.000
		Map Menu
		Favorites
		Switch to
Esc	HA:12.4564gon VA:107.8576gon	Accept





To end the competition, you have to press Esc until main menu.

s ک	hot Put		20%
Ci	ompetition	Reports	10.000 <u>M</u> ap
			Menu
			Favorites
			Switch to
Esc	HA:12.7741g	on VA:107.9210gon	
		Reports	

If you press Results you will see competition results. Also it is possible to export results to an ASCII file.



FAQ

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