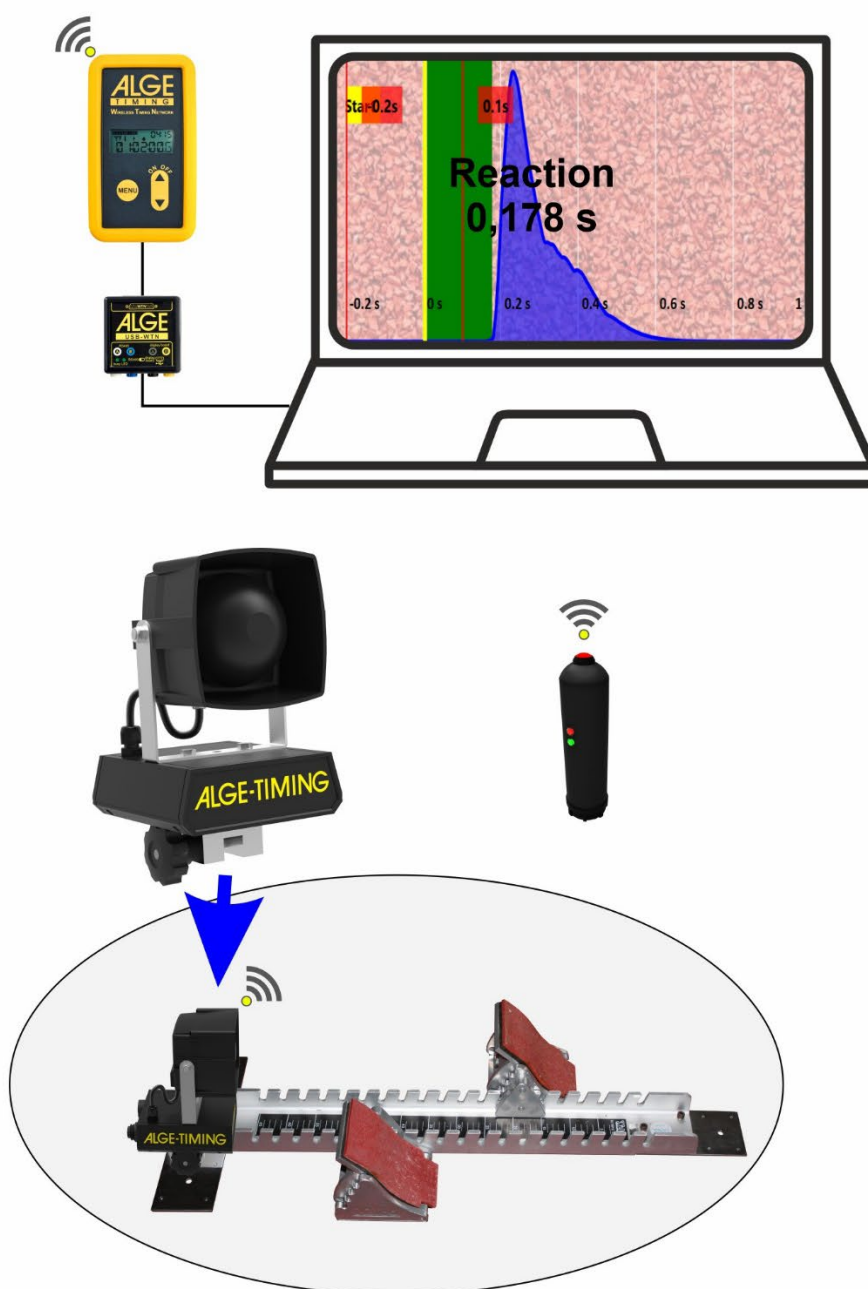


Start Judge SJ2-T



Important Information

General

Before using your ALGE-TIMING device read the complete manual carefully. It is part of the device and contains important information about installation, safety and its intended use. This manual cannot cover all conceivable applications. For further information or in case of problems that are mentioned not at all or not sufficiently detailed, please contact your ALGE-TIMING representative. You can find contact details on our homepage www.alge-timing.com

Safety

Apart from the information of this manual all general safety and accident prevention regulations of the legislator must be taken into account. The device must only be used by trained persons. The setting-up and installation must only be executed according to the manufacturer's data.

Never adjust the active speaker system to a very high volume. Permanent high volumes may damage your hearing! The human ear will get accustomed to high volumes which do not seem to be that high after some time. Therefore, do not further increase a high volume after getting used to it.

Intended Use

The device must only be used for its intended applications. Technical modifications and any misuse are prohibited because of the risks involved! ALGE-TIMING is not liable for damages that are caused by improper use or incorrect operation.

Power supply

The stated voltage on the type plate must correspond to voltage of the power source. Check all connections and plugs before usage. Damaged connection wires must be replaced immediately by an authorized electrician. The device must only be connected to an electric supply that has been installed by an electrician according to IEC 60364-1. Never touch the mains plug with wet hands! Never touch live parts!

Cleaning

Please clean the outside of the device only with a smooth cloth. Detergents can cause damage. Never submerge in water, never open or clean with wet cloth. The cleaning must not be carried out by hose or high-pressure (risk of short circuits or other damage).

Liability Limitations

All technical information, data and information for installation and operation correspond to the latest status at time of printing and are made in all conscience considering our past experience and knowledge. Information, pictures and description do not entitle to base any claims. The manufacturer is not liable for damage due to failure to observe the manual, improper use, incorrect repairs, technical modifications, use of unauthorized spare parts. Translations are made in all conscience. We assume no liability for translation mistakes, even if the translation is carried out by us or on our behalf.

Disposal

If a label is placed on the device showing a crossed-out dustbin on wheels (see drawing), the European directive 2002/96/EG applies for this device.

Please get informed about the applicable regulations for separate collection of electrical and electronical waste in your country and do not dispose of the old devices as household waste. Correct disposal of old equipment protects the environment and humans against negative consequences!



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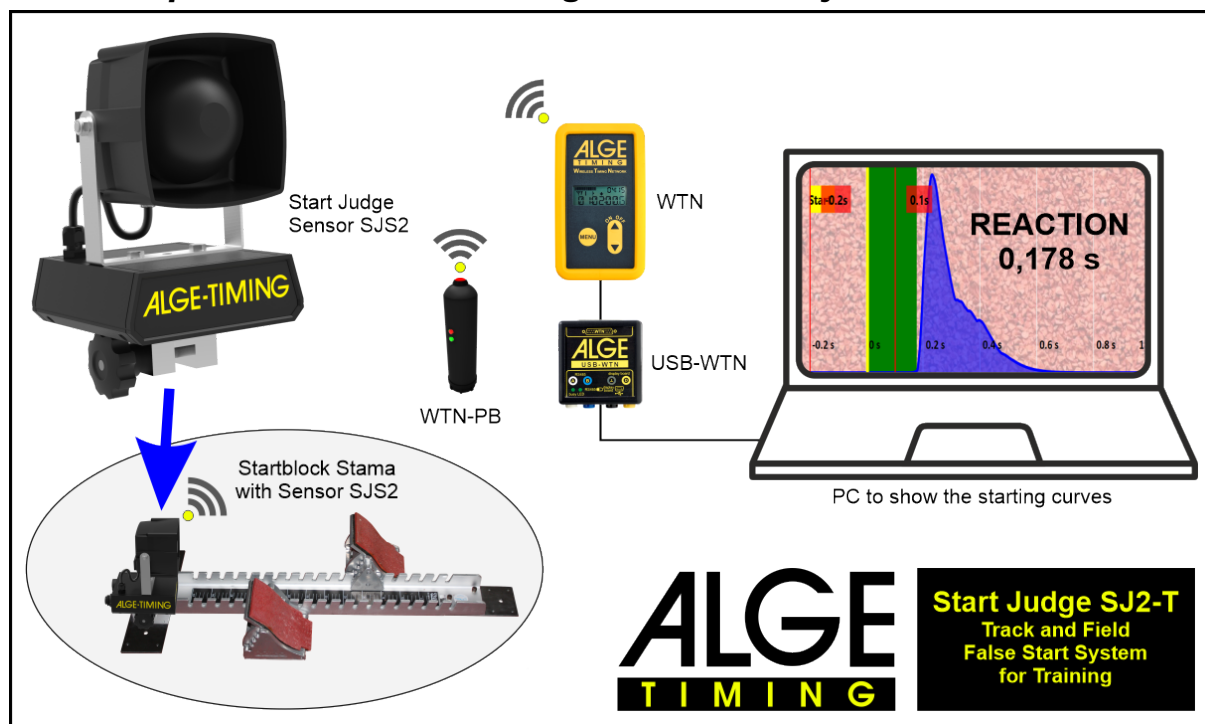
1 Control Elements

1.1 Control Elements of Start Judge Sensors SJS2



- a data cable in
- b data cable out
- c rotation switch for radio team
- d on/off switch, numbering in wireless mode
- e LED indicator for battery
WTN-Operation (battery use):
 green blinking battery full
 orange blinking battery empty soon
 red blinking battery almost empty
Charging Battery:
 green blinking battery fully loaded
 orange blinking charging battery
- f LED indicator for radio reception
 red blinking very bad radio reception
 orange blinking bad radio reception
 green blinking good radio reception
 red no other radio device found

1.2 Components of the Training False Start System SJ2-T



1.2.1 Minimal Configuration Start Judge Trainings System (1 Lane)

- | | |
|---|--|
| 1 x wireless electronic start gun e-Start W | 1 x Starting Block STAMA |
| 1 x radio push button WTN-PB (only necessary for trainings system with "Starter") | 1 x Adapter USB-WTN Adapter with cable USB-mini and cable 280-03 |
| 1 x cable 139-02 | 1 x Power Supply PS24-70 |

Notebook or tablet for controlling the system is not included. You can acquire this yourself or order it from ALGE-TIMING. The notebook and tablet have to have a USB interface and Windows 10 must be installed.

1.2.2 Lane Depending Start Judge Accessory

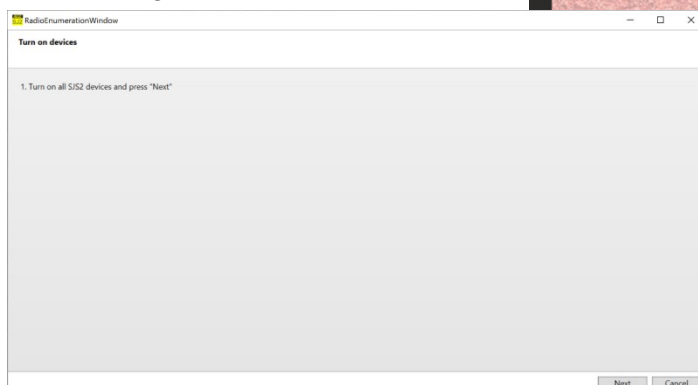
The training system can be used for one or more lanes. The example above is given for one lane. Each additional lane needs a start judge sensor, a starting block and a charging cable for the sensor.

- 1 x SJS2 Start Judge Sensor with built-in speaker and sensor
- 1 x STAMA Olympic starting block for track and field (IAAF approved)
- 1 x 139-02 Connection cable from SJS2 to SJS2 (2 m)

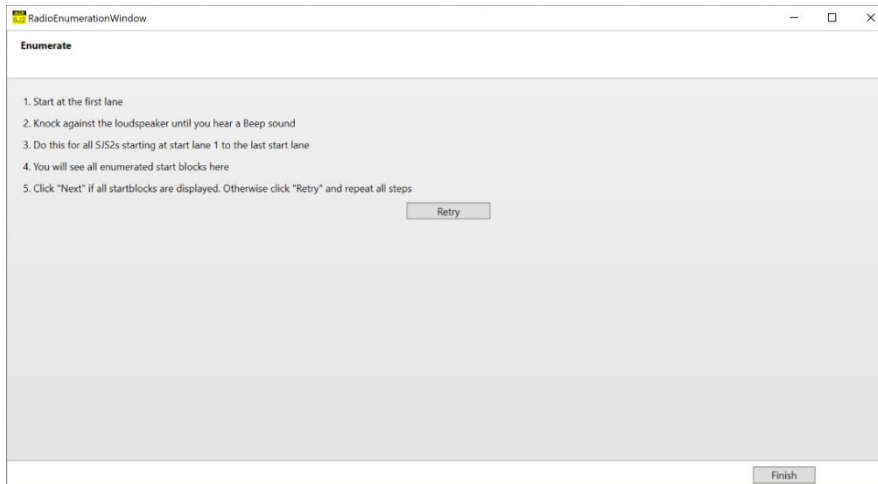
1.3 Training System

The Start Judge SJ2 can be used as a training start system with reduced equipment. It is possible to train with one lane or more lanes. The start sensor transfers the start curve including the reaction time by radio (WTN) to a PC. The setup is easy and quick.

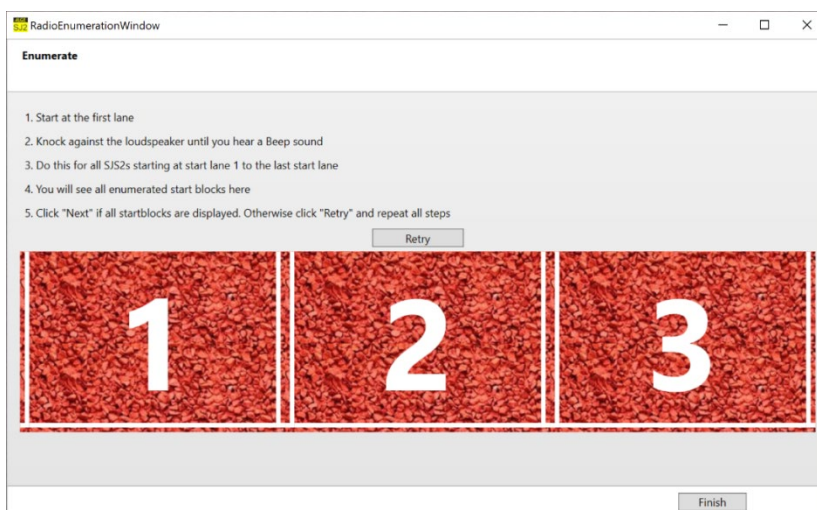
- Distribute starting blocks on the tracks.
- Screw the Start Judge Sensor SJS2 onto starting blocks.
 - Open fastening screw far enough so that the SJS2 fits onto a bridge of the starting block.
 - Secure SJS2 to the starting block with rotary handle screw.
- Adjust radio team of all Start Judge Sensors SJS2.
 - Switch on all Start Judge Sensors SJS2.
 - Press red push button on Start Judge Sensor SJS2.
 - Both LEDs (battery and radio) must blink green.
- Prepare false start radio push button WTN-PB.
 - Adjust radio team.
 - Remove battery cover and battery.
 - Adjust radio team with small screw driver.
 - Insert battery and screw on battery cover.
- Switch USB-WTN on RS485.
- Connect USB-WTN with USB-mini cable on PC.
- Connect USB-WTN with cable 280-03 to WTN.
- Start PC or tablet.
- Start the SJ2 software.
- Check, if radio mode is switched on (icon  must show).
- the following is displayed 
- if the Start Judge System was used with the same configuration before click on 
- if the Start Judge System is used for the first time or never before with this configuration click on icon 
 - the following window opens:



- click on <Next>



- press the red button on speaker of lane 1 – on the screen lane 1 is shown
- press the red button on speaker of lane 2 – on the screen lane 2 as well
- continue until all lanes are registered (e.g. in the picture below for 3 lanes)



- click on <Finish> if all lanes were detected correctly
- the false start system is ready for the first start



- Adjustment for the training with a starter or without a starter (automatic).

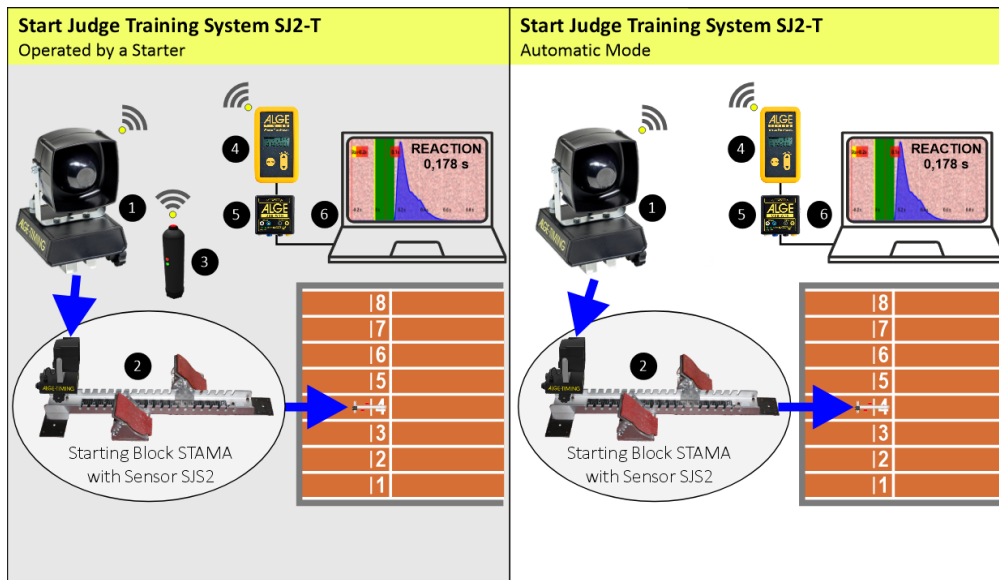
1.3.1 Start Training Using the Automatic Start mode

An integrated trainings mode allows the athletes to train the start without a starter by himself. The start commands are given by the system after clicking on the icon .

- Click with the mouse on  to start the start sequence.
- After about 3 seconds a recorded voice from the speaker of the start judge sensor will give the following command: “On your marks!”
- After further 15 seconds the speaker will give the command “Get Set!”.
- After a random time between 2 and 4 seconds the speaker will produce the start sound.
- The athlete(s) that train the start can check their performance at the PC-screen.

1.3.2 Training with a Starter

- The starter will give the start commands as used at races.
- If all athletes are ready the starter will trigger push button of the WTN-PB (alternative e-Start E) to produce the start sound.
- wenn der oder die Starter bereit sind löst er den Startschuss mit dem Handtaster WTN-PB (alternativ kann man auch den e-Start W verwenden) aus
- The athlete(s) that train the start can check their performance at the PC-screen.



- 1 Start Judge Sensor SJS2
- 2 Starting Block STAMA
- 3 Radio Push Button WTN-PB
- 4 Wireless Timing Network WTN
- 5 Converter USB-WTN
- 6 Notebook for Start Judge SJ2-T

2 PC-Software SJ2 Icons

	 opens the window to load a saved heat
	 shows the heat number
	 shows the cycle number
	 creates an image of the loaded heat and opens the image with the default image viewer
	 shows only in radio mode: tries to restore last saved lane configuration
	 shows only in radio mode: starts the numbering of the radio mode
	 searching for start lanes
	 cable mode is active (WTN switched off)
	 WTN active (radio mode)
	 start with start (standard operation)
	 use of training system without a starter – automatic Start
	 opens the settings window
	 closes the application
	 saves the settings and closes the settings windows
	 starting blocks connected by cable
	 no USB connection between PC and Start Judge SJ2
	 set number of minimum starting blocks not found
	 connection with OPTIc3
	 no connection with OPTIc3
	 starting block sensor is quiet (no movement)
	 starting block sensor is active (movements)
	 no starting blocks found
	 information text
	 sorts the start lanes ascending
	 sorts the start lanes descending
	 clears all curves and reaction times from the screen
	 zoom in the acceleration curve graph
	 zoom out the acceleration curve graph
	 moves the acceleration curve graph to the left
	 moves the acceleration curve graph to the right
	 send the reaction times again out (e.g. to meet manager)
	 date of the currently shown heat
	 open calendar
	 heat and run number as well as start time of currently shown run
	 load previous heat cycle
	 load next heat cycle

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