



**SMART
TEAM
TRACKING**



Today, science specialists attempt to utilize technology for improvement and growth of the football industry. This has led many sports organizations to seek out technologies that can offer an extra advantage on the pitch; unfortunately many of the technologies on offer fail to meet minimum scientific standards and approvals. After years of research and development, consultations with specialists in sports and medical sciences and through repeated and vigorous testing of the system, Payesh Electronic Company was able to develop and successfully produce 'ST2' – the latest GPS enabled technology for monitoring the performance of players during training sessions and matches. Our trials, with Coaches and Players, have shown that our ST2 product is a strong competitor in terms of quality and reliability with similar commercially available products globally. ST2 has also received confirmations from institutes of technology and engineering as well as prominent medical universities within the country. We are confident that ST2 offers a major step forward in the application of the latest technologies to enhance sports performance.

Introduction of Tracker (Football GPS)

GPS is a modern technological tool that monitors the physical performance of the players and provides the data / results for the coaches and performance staff. Internal load data is provided through the capture of physiological data, such as heart-rate, which is provided for the coaches in real-time during the course of exercises. External Load data is captured by way of the GPS capture system as well as through in-built accelerometers. This technology can be utilized in the exercises of the team at any point of the season (or pre-season) for better preparation of the team and with the data it provides from the movements and mobility of the players, it helps them to improve their physical preparation and to better adapt to the physical loads being applied. The GPS data allows the coaching and performance staff to design the most suitable exercises for the playing squad to reach peak condition, while being fully aware of the physical stress each player is facing.

The GPS device is worn within a vest, as is common in many sports. By wearing the vest and the related equipment, the GPS system will provide the data of each player directly to the coaches.

This technology provides several data sets for the coaching team including; the distance covered by each player, the speed of the player during the exercise, acceleration of the player, heart-rate, body metabolic rate and the balance of the player.



The Main Specifications of this device are as following:

- Dimensions: 48x85x15 (WHD) mm
- Weight: 45 grams
- Positioning System: 10 HZ GNSS (GPS+GLONASS)
- Gyroscope: 3D
- Accelerometer: 3D
- Magnetometer: 3D
- Heart Sensor: Coded Polaresure HR M and HRV
- Wireless: 128 Channels 2.4 GHz
- Battery: Ion Lithium Chargeable 5 hrs
- Processor: 32 bit
- Waterproof
- Solid and delicate body without sharp edges



The ST2 device enables you to measure and analyze the following parameters:

- Players' speed
- Players' acceleration
- Players' position
- Counting starts (Sprint)
- Heart rate (HR)
- Heart Rate Variability (HRV)
- Players' balance



The ST2 Tracker System

The ST2 advanced tracker system is combined with advanced software to be the most effective tool in the present market for collecting and analyzing the data from exercise sessions and matches of the players. This system is the first series of these trackers which is designed for open spaces and provides the possibility of having a more complete insight about the power and performance rate of the player. Using such insight and evaluation of the exercises, it is possible to provide the best training framework for preparation, recovery (improvement and return to the primary state) and rehabilitation of the player.

Advantages of the Control and Monitoring (Tracking)

- Possibility of reviewing the team performance
- Possibility of controlling injuries, preventing them and assisting recovery
- Assisting precise periodization of the exercises prior to the season and during the season
- Possibility of measuring exhaustion and recovery of the player
- Recovery improvement for personal performance in trainings
- Possibility of analyzing the cardiovascular performance + adaptations
- Possibility of online communication with the bench and real time information exchange about the performance of the players during matches
- Maintaining the preparation and freshness of the players during the matches
- Constant and regular review and measurement of the advantages of a player
- Specifying the strengths and weaknesses of a player
- Identifying the unique requirements of each player
- Optimizing the capacities of each player
- Optimizing the physical recovery of the players
- Avoiding over training during the exercises
- Reducing the injury probability for the players
- Team preparation



The ST2 Tracker System

Superiorities of our Product:

- No need for internet to analyze the data of the system
- No need for annual charges to use the software of the system
- The software is designed in two languages, covering both English and Farsi.

Software

The system software is designed in two modes online and offline. In the online section, you can view live single-player performance reports at the time of practice and tournament. This section gives you an overview of all the players.

In the offline section, you can select all the data in the training and competitions you want and compare and analyze them. This section provides information as accurately as possible in both individual and team fashion.

The most important reports that the software offers you are:





You can monitoring these items



Total distance

Measure of total volume covered in drill/session



Distance Zone5

Volume of distance covered between zone 5 and zone 6 speed bands.



Distance Zone6

Volume of distance covered aboven zone 6 speed band.



Cumulative Speed Zones

8Speed zones



Current Speed

Instantaneous velocity measure



Max speed

Peak speed achieved



High speed distance

Measure of total distance covered in speed zone 5&6.



High speed distance per minute

Intensity maker looking at only high speed running



Number of sprints

Count of high velocity efforts above certain criteria.



Repeat sprints

Count of repeat high velocity efforts above certain criteria.



Accelerations

Count of positive change in velocity based on zone perferences.



Decelerations

Count of negative change in velocity based on zone perferences.



Heart Rate

Cardiovascular measure in beats per minute.



Max Heart Rate

Peak heart rate achieved.



HRD

Heart Rate distance.



HRT

Heart Rate Time.



HRA

Heart Rate Average



TT

Total time in traning



- This complex benefits from a well experienced engineering and sports team which are ready to provide services 24 hrs a day for different aspects of the product.
- All of the products of this complex benefit from a 2 year guarantee and five years of after sale services.
- We replace defected systems within 6 hours in Tehran and within 48 hours in other cities and then return the devices after repair.
- Full training classes are provided for operating the device and the software using experienced instructors and familiar with foreign and well-known systems of the world in English and Farsi languages.
- Teaching the required theories for familiarity with medical and electronic sciences in order to improve personal and group power of the sports teams.
- Trainings are free of charge in Tehran and for other cities, the trainings are performed with charging for the transportation and accommodation costs of the instructors.

We Made The Best For You...

www.ST2.co