

What is goal-line in football that can make accurate decisions instead of referees?

Goal-line is a technology used in football, including many types of equipment that can identify and analyze path data, the position of the ball against the goal line is calculated as a goal.

In football matches, the goal situations that are close to the controversial goal line between the two teams are frequent. Whether the goal is recognized or not, after reviewing the camera, it is slow to have many cases where the decision of the referee is not popular with many people.



In order to give the most accurate answer to the players as well as the fans of the king ball, Goal-line technology was launched. So, what is Goal-line and how does it work? Let's find out together!

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In the world today there are 2 types of Goal-line technology which are recognized and applied by FIFA and other prestigious organizations including: camera recognition and magnetic field sensors.

Camera recognizes

Currently, recognizable Camera systems are widely used in many tournaments. This system consists of 14 advanced cameras installed in different locations throughout the stadium, seven on one side facing two goal faces of two teams. The task of the cameras is to accurately record the image of the ball at a very high speed and quickly to calculate the relative distance to the goal line and conclude whether or not to 'enter'.



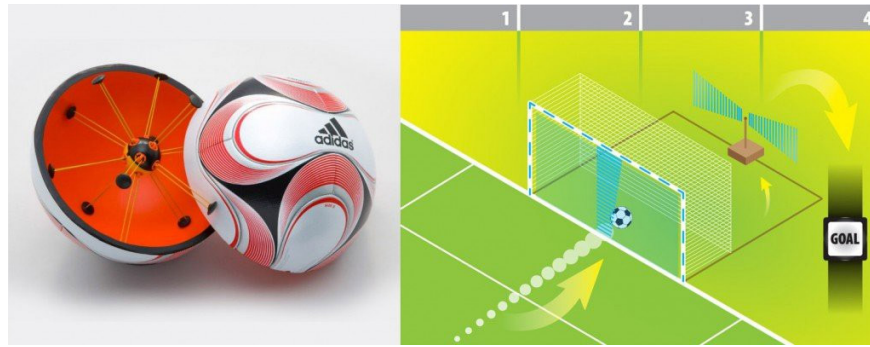
Just at least 3 cameras recorded the moment that there were enough sharp images on the case, so even if the camera's viewpoint is obscured, it still does not result in inaccurate evaluation results. Even, these cameras can record up to the smallest pixels, and the ball speed is up to 120km / h.

When the ball crosses the line, the referee will receive a notification signal via a smart watch or headset to officially recognize the goal.



Magnetic field sensor

An electronic sensor will be "implanted" in the center of the ball, neatly enclosed in the shells. A magnetic field will be built by burying power lines around the penalty area and behind the lime line to form a grid.



They can even create a most defined boundary line, following the line of the goal by installing more antennas, following more intensive calculations. The magnetic field and the analytical signal indicate whether the goal result has been recorded.

This method has not been highly evaluated professionally and exactly as the camera recognizes.

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