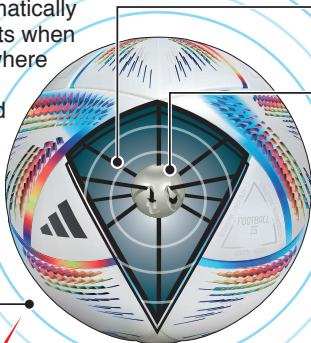


Semi-automated offside technology

A new system to detect the position of the ball and all 22 players should enhance Video Assistant Refereeing at the World Cup

KICK POINT PRECISION

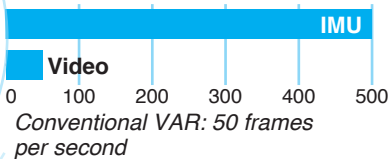
Automatically detects when and where ball is kicked



Connected Ball Technology:

Suspension System holds and stabilises inertial measurement unit (IMU) motion sensor

IMU transmits inertia data of ball – kick-point, location, direction – at 500Hz, 500 times per second



PLAYER POSITIONS

Artificial Intelligence

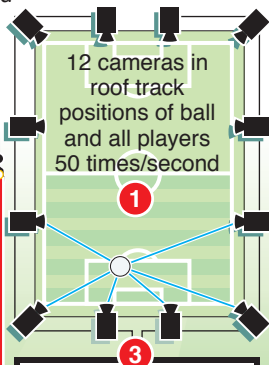
Assigns and tracks up to 29 data points for each player

Defender

Furthest data point defines offside line

Logged Extremities relevant to offside calls

2
System tracks when ball is received by player in offside position when ball was kicked



OFFSIDE

Alert triggered and validated in Video Operation Room

OFFSIDE LINE

Data point projects beyond offside line

Decision communicated to referee

