GEN AI

GENETICS • PERFORMANCE • INTELLIGENCE

by SPORTOTEAM

Basketball performance and video analysis platform

One file for every basketball player from academy to first team: two HD cameras watching the court, live phone-based court tests and AI-powered devices.

ACADEMY | FIRST TEAM | SPORTS SCHOOL | COACH | ATHLETE & FAMILY

WHAT WE DO

We measure every player's physical profile, track their development and link decisions to data

01 · WE MEASURE

With camera, phone and devices

Two court cameras, 25 live phone tests and data from devices like VALD, Kinexon and Catapult merge into a single athlete file.

02 · WE INTERPRET

By age, position and the individual

Literature-based reference bands, left–right symmetry, jump load and readiness score. AI writes a commentary for every result, separate from the measurement.

03 · WE SUPPORT DECISIONS

A screen for everyone

KPI dashboard and academy file for management, daily “reduce / maintain / increase” for coaches, progress report for athletes and families.

Not “How many points?” but “Where did they start? How far have they come?”

HOW IT WORKS

Four data sources, one engine, three screens

Two court cameras

Two fixed HD cameras record games and practices.

Live phone tests

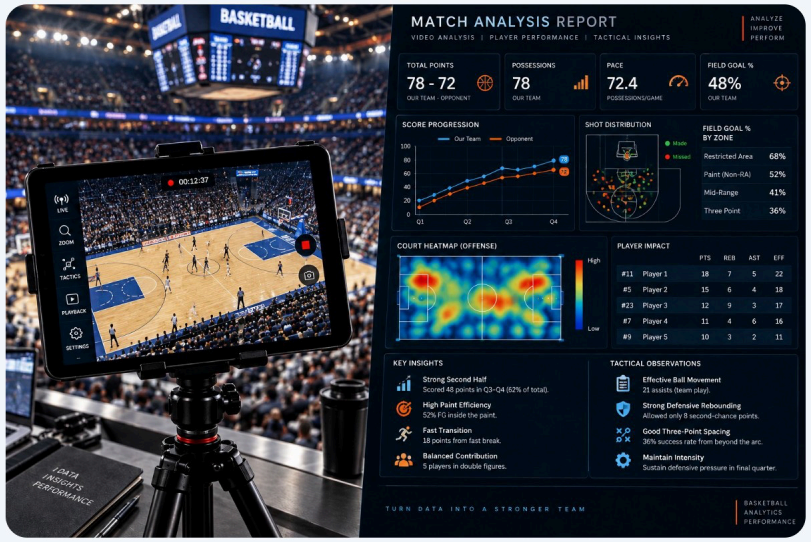
25 court tests; results in about 1 minute via skeleton tracking.

AI-powered devices

VALD, Kinexon and Catapult data imported automatically.

Morning screening

60-second wellness survey, pupil reflex, medical record.



SPORTOVISION GEN AI engine

Skeleton tracking · court homography · jump count · reference bands · load and risk engine · AI commentary

Management	KPI dashboard, academy file, monthly summary
Coach	Squad list, rotation advice, performance table
Athlete and family	Personal report, progress curve, daily task

COURT CAMERAS

Two HD cameras watch the court



Full-court recording from a fixed angle above the stands · illustrative image

Court coordinate mapping

Homography fits both views onto one court plan; every player is tracked in meters.

Jump load

Jump count and height per player; patellar tendon and knee load alerts.

Shot mechanics and landing

Release angle and height, elbow alignment; landing knee valgus, single vs. double leg asymmetry.

Movement and heat map

Running distance, sprints, defensive slide speed; heat maps by position.

AI-POWERED DEVICES

The club's devices connect to the system

VALD

ForceDecks · NordBord

- Jump and strength profile from force plates
- Left–right symmetry (LSI)
- Data straight to athlete file and strength plan

Indoor tracking

Kinexon · Catapult

- Indoor player tracking, auto import
- Jump and acceleration data to the load table
- Read together with camera data

Heart rate straps

Polar · Garmin

- Internal load: practice & game HR
- Heart rate zones and recovery tracking
- Weekly load with RPE

Device if available, camera if not.

Same metric, same reference band, one performance table. Adding a device later never breaks past data; if a threshold changes, the archive is recalculated. AI writes a commentary on every result.

CLUB AND SPORTS SCHOOL MANAGEMENT

What does management see?

WHAT THEY SEE

Command center
Today's status of every age group: ready, at risk, injured; pending tests.

Academy KPI dashboard
Players promoted to first team, development score, practice attendance, retention rate.

Individual development file
Individual development plan, physical performance report, potential score.

Availability
Who is out for how long; injury burden and days lost by team and season.

Monthly board summary
Automatic PDF for the board; comparison across age groups.

Black box
Decision-time data is archived: a documented answer to “why was he fielded that day?”

BENEFIT

- Academy investment and squad decisions rely on data
- Player development is documented; an objective file for first-team and transfer talks
- Days lost to injury become visible
- Transparent, measurable service for families
- Data belongs to the club: GDPR/KVKK, role-based access, audit trail, no lock-in

COACH

What does the coach see?

WHAT THEY SEE

Morning squad list
Green / yellow / red; a “reduce / maintain / increase” tip per player.

Performance table
Jump count and height, distance, sprint, accel/decel; color-coded by position.

Game-day readiness
Readiness score and rotation advice; ACWR and monotony alerts.

Test results
Value, reference band, left–right symmetry and change vs. last test.

Shot and landing analysis
Release angle, elbow alignment, landing knee valgus; session-to-session comparison.

Game tagging + video
Tagged moments linked to player clips and the dashboard.

BENEFIT

- Training is individualized per player
- Spots knee and ankle risk in the data before pain appears
- Jump load is balanced weekly, patellar tendon protected
- More time on court instead of preparing reports
- Speaks the same language as medical staff and families

ATHLETE AND FAMILY

What do the athlete and family see?

Personal report

Club-branded PDF: 8 domains, radar; figure, table and band for every test.

Progress curve

Percent change vs. the previous result as each test is repeated.

Left–right gap

Comparison of both sides in single-leg jump, landing and balance tests.

Athlete app

Morning wellness survey, video invite, daily schedule.

6 GROWTH BENEFITS

1. The child's physical profile becomes measurable
2. Strengths and areas to develop become clear
3. Left–right differences are tracked
4. Age-appropriate training plans backed by data
5. Retesting tracks progress objectively
6. Coach, medical team and family share one language

⚠ **The goal is not to compare a child with others, but to understand their own profile.** Assessments alone do not definitively predict future performance or injury; results are interpreted alongside clinical status, training history and developmental stage.

OUR LIMITS

What does the system see, and not see?

The camera sees and measures

- Joint angles and skeletal motion
- Jump height (from flight time) and count
- Shot release angle and elbow alignment
- Left–right symmetry and landing knee valgus
- Sprint, 5-10-5 and defensive slide times
- In-game position, distance, heat map
- Morning pupil reflex

Doesn't see · we won't claim

- **Muscle activation** → needs EMG
- **True force values** → added via VALD force plate
- **Heart rate and internal load** → added via HR strap
- **Accuracy on poor footage** → flagged low-confidence, test repeated
- **Certain prediction of the future** → results read with clinical and training history

We never guess what we can't measure. Every report states “measured / not measured” and confidence.



From data to decisions.

Next step: live demo day with an academy age group and the first team · sample athlete file with your data · board presentation