



VISIONPOSE®

—AI Pose Estimation Engine—

VisionPose is a highly accurate pose estimation system that uses deep learning. It estimates the skeletal positions (through 30 keypoints) of multiple people without any depth sensor. All it needs is an ordinary webcam. The engine supports real-time estimation as well as 2D/3D skeletal tracking. Pose estimation using images and video footage is also possible by using the tool included with the software.

-  **Tracks 30 keypoints**
The most in the industry
-  **High speed tracking**
Supports up to 60 frames per second
-  **VP Analyzer**
Estimation through images and video footage
-  **Real-time tracking**
Skeletal tracking with only webcams
-  **Delivered as an SDK**
Easy integration into app development
-  **Detection of multiple persons**
Real-time detection for multiple people
-  **Multi-device support**
Usable with various devices

Usable in sports, nursing homes, medical facilities, and factories

Using VisionPose, it is possible to track various types of movements. This is useful for sports, where form is an important factor. Think of sports like baseball, basketball, dance, golf, badminton, tennis, martial arts, and so on.

By comparing the skeletal data of a professional athlete with your own, you can visualize the difference and use the information to improve your skills.



VisionPose can track the skeleton, even when the person being tracked is lying in bed or sitting in a wheelchair. Because the person is not disturbed, VisionPose is exceedingly useful for rehabilitation purposes. In addition, the data can be used as an indication on how to improve future rehabilitation plans.

Another use case would be at production lines, where the movement of workers can be monitored, and the AI model can be trained to improve workflow and lower risks associated with working in manufacturing.

VisionPose Single3D

VisionPose Single3D is a lightweight version of VisionPose. It only needs one webcam to track the skeleton with 3D coordinates. Single3D is recommended when you need 3D coordination, but only have one camera or a smartphone.



▲Single3D motion capture demonstration



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