

FFitting.cn

F·Fitting 3D精确识别系统 「AI-DeepRide」

Product Introduction

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套件清单

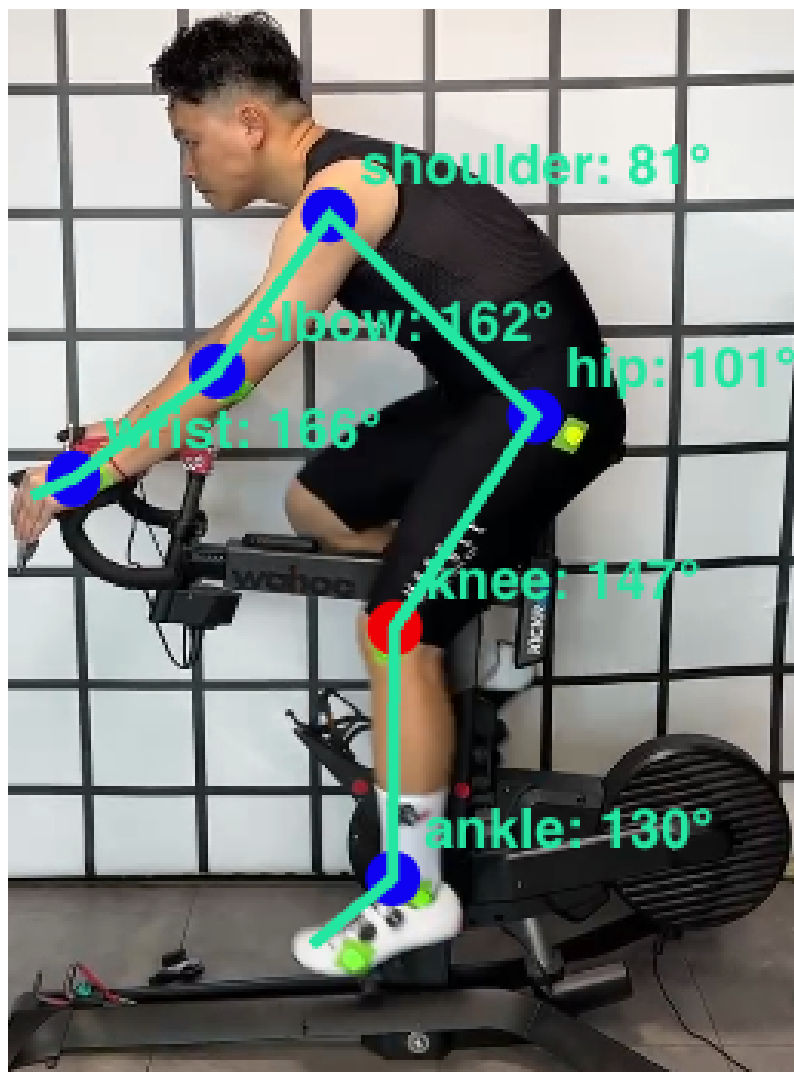
Package List



系统功能

运动捕捉

采用先进的RGBD深度相机与自主研发的3D Skeleton Model，无需贴点即可精准捕捉人体三维运动轨迹。系统实时采集并自动将数据转化为运动角度，清晰直观地展示在分析系统中。



智能AI调车建议

基于海量专业Fitting数据积累，我们的智能系统能根据骑行者实时姿态，自动提供精确的车辆调节建议，Fitter只需简单地按照系统提示即可快速完成精准调车。



个性化姿态模板

不仅提供业界标准化姿态模板，更内置丰富的骑行风格模板库，适应不同骑行者需求。同时还能捕捉并存储个性化姿态数据，方便新用户快速匹配并使用。

参数模板

当前模板：

禧玛诺标准(2024)

膝关节上限：

138

148

膝关节下限：

67

73

髋关节上限：

90

105

髋关节下限：

55

70

肩部上限：

80

90

肘部上限：

155

170

踝关节上限：

100

130

腕部上限：

150

170

另存为名称：

禧玛诺标准(2024)

风格类型：

普通

公开：

是

说明：

123

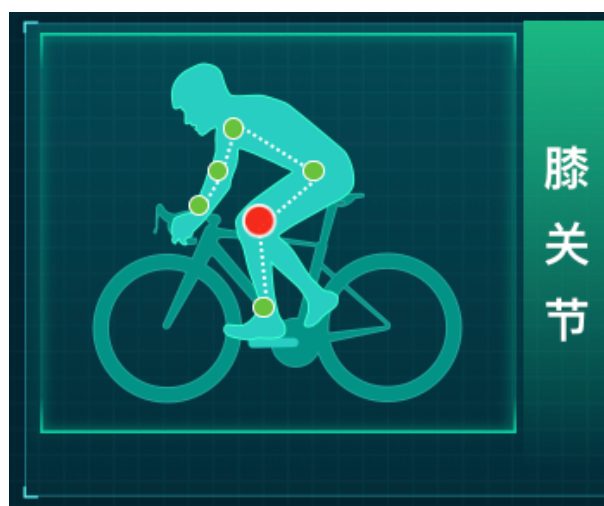
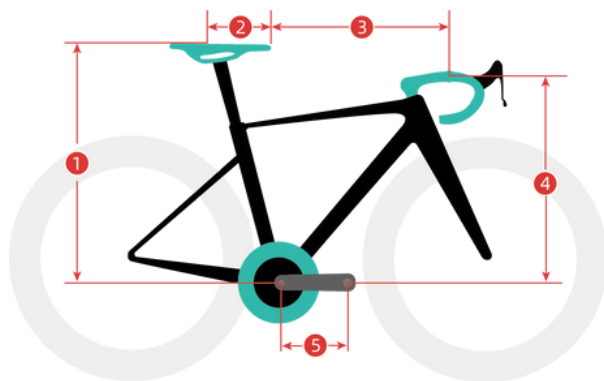
保存

另存为我的模板

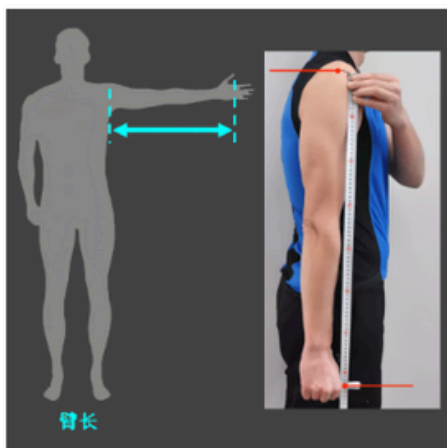
应用当前设置

图示化直观引导

人体测量、车辆测量以及关节点位测量等全流程均配备详细图示化引导，让用户一目了然、快速上手，全面提升操作便捷性。



[4] 请测量臂长：将手臂伸直，测量肱骨大结节到手掌中心长度，可用圆柱体辅助。

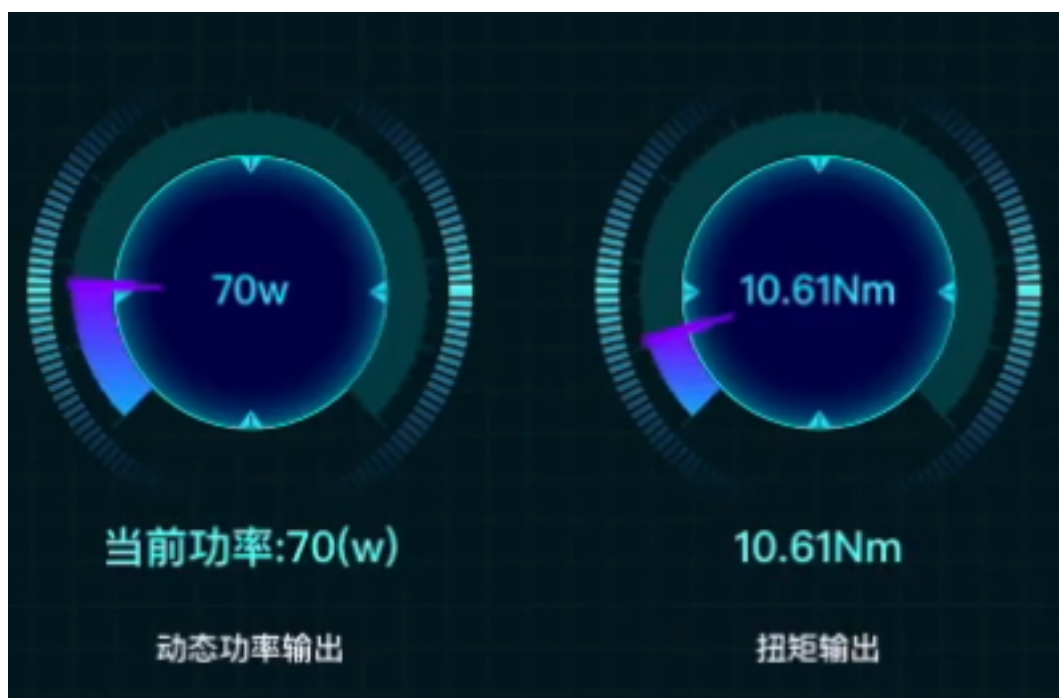


臂长（厘米）

40

实时动态数据采集

实时捕捉骑行功率、扭矩、踏频等数据，直观呈现于系统界面。Fitting前后的参数对比一目了然，有效跟踪并展示骑行者的提升效果。



最佳扭矩效益算法

独创智能算法，可在相同扭矩输出情况下，优化骑行姿态，使功率转化效率达到最高，实现更高效、更省力的骑行。



姿态风阻实时分析

系统实时监测并计算骑行者的迎风面积系数，确保骑行姿态在舒适度和低风阻之间达到最佳平衡，提升骑行整体效能。



专业美观的Fitting报告

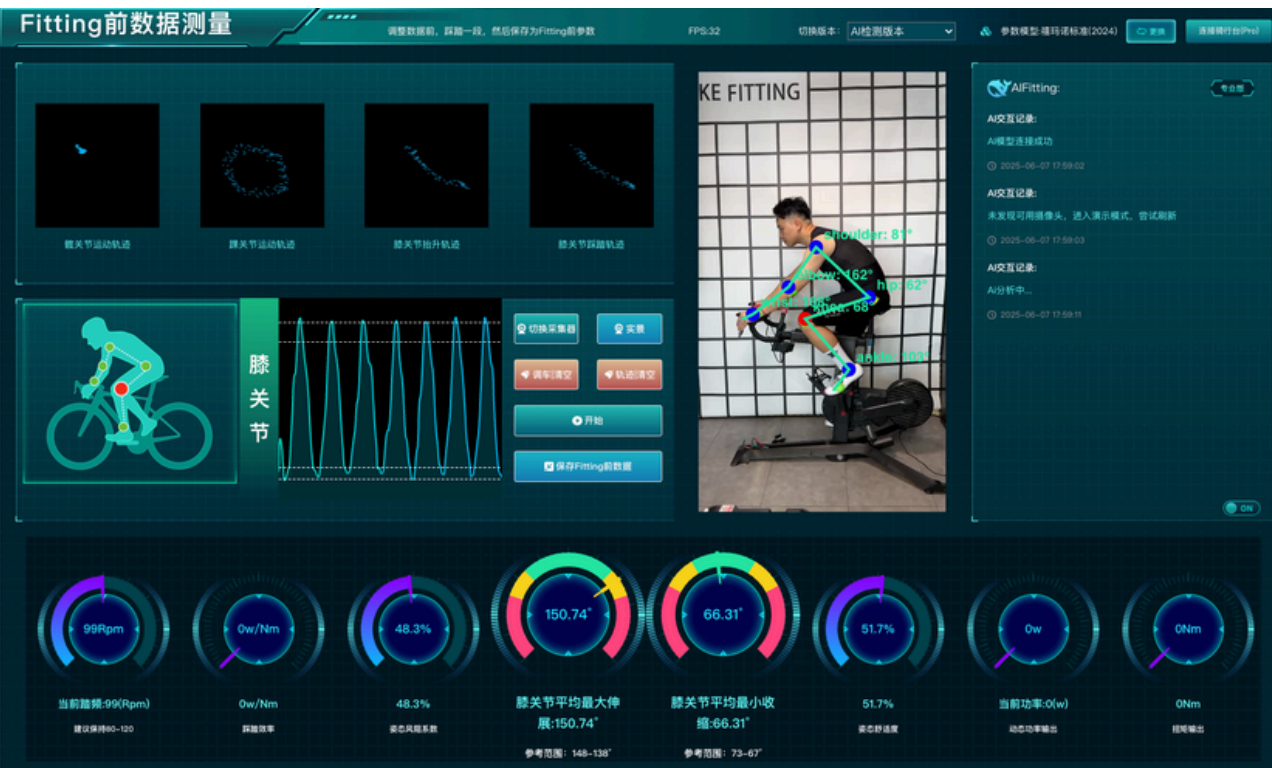
精致的报告设计详尽记录骑行姿态数据和优化成果，通过Fitting前后的量化数据对比，显著体现骑行者的进步，效果直观且易于理解。



完整报告参见[示例报告]

现代化UI操作界面

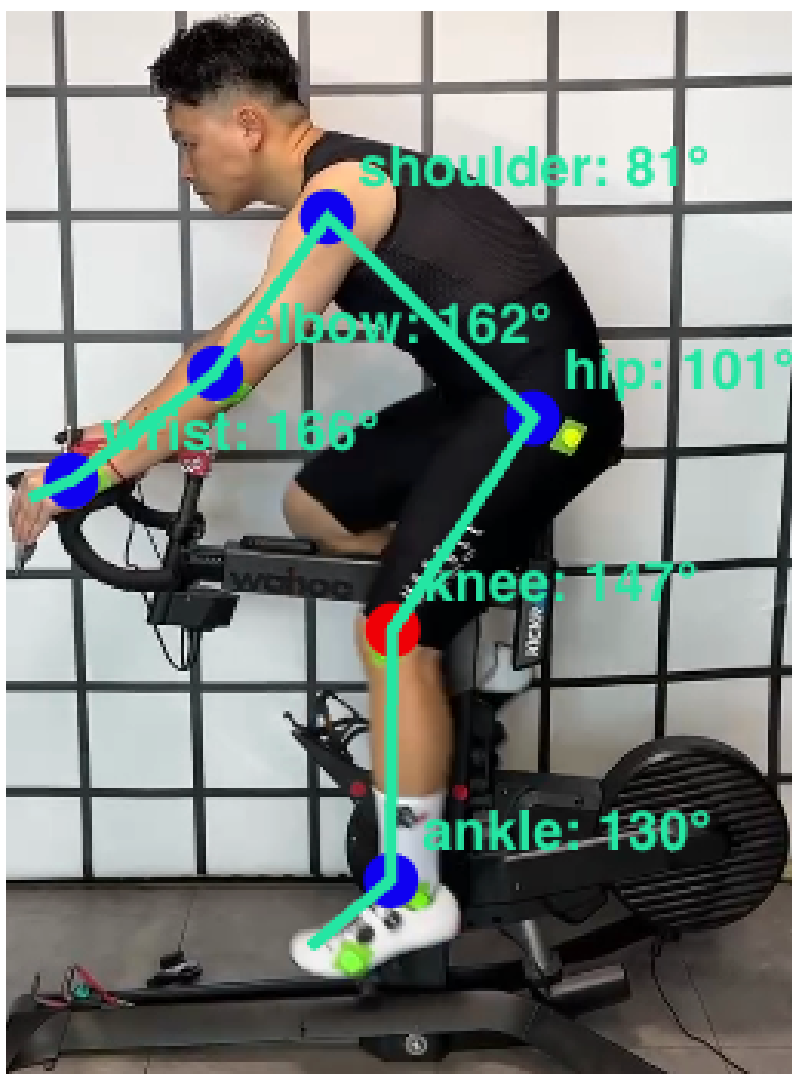
区别于传统单一风格界面，我们的BikeFitting系统采用现代化UI设计，兼顾美观与便捷操作体验，带来愉悦的使用感受。



技术简介

3D Skeleton Model 3.0

- 经过海量真实门店与用户数据的持续训练与优化，我们的机器视觉模型已迭代至极其稳定的版本。
- 在专业 Vicon 实验室环境下进行同轴对比测验，整体关节角度识别精度达到 $\pm 2^\circ$ 。



便利又精确的Fitting方案

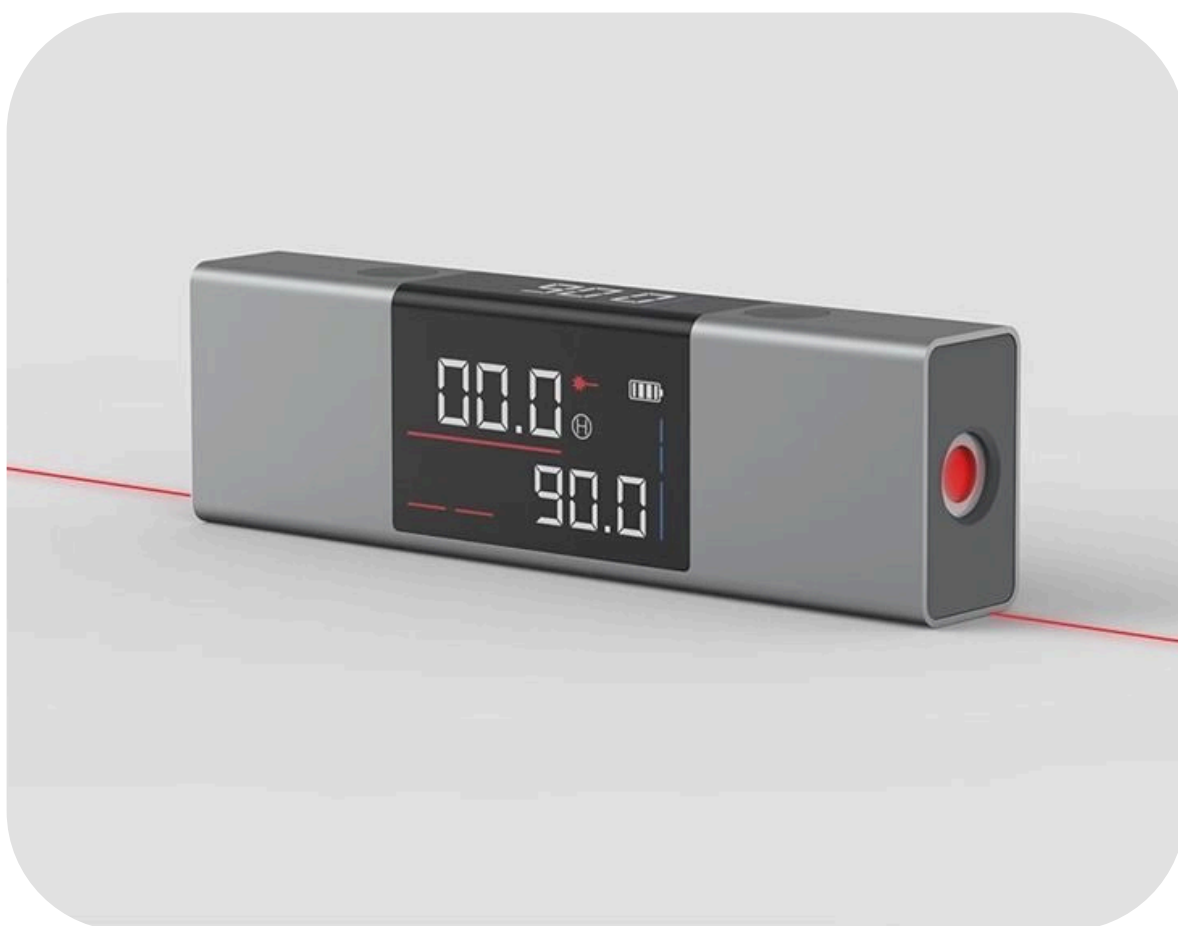
- 融合机器视觉与深度流：依托结构光深度相机采集 RGB + Depth 数据，结合专有合并帧算法，有效补偿单纯 AI 深度估计的不足。
- 无贴点、高精度：无需在人体或骑行服上粘贴任何标记，即可获取完整的 3D 关节空间坐标，识别误差 $< 2^{\circ}$ 。
- 实时补偿与滤波：合并帧算法通过多帧数据融合，消除深度噪声与遮挡干扰，确保动态骑行过程中关键点持续、稳定地跟踪。
- 快速上手使用：用户仅需站立于深度相机前，无需外部传感器或反光标，系统秒级启动并自动开始数据采集与分析。



以上技术优势确保 DeepRide-AI 在各类室内外环境中都能提供低延迟、高精度的三维姿态识别，为骑行者带来更便捷、可靠的 Fitting 体验。

双屏激光投线水平仪与多功能云台支架

通过配备双屏激光投线水平仪及多功能云台支架，便于精确校准相机与Fitting车之间的前后及左右位置，保障数据采集的精准度与一致性。



更亲民的价格

我们的使命是“让天下没有难做的Fitting”，打破传统厂商昂贵方案的垄断，提供性能卓越且价格亲民的解决方案，推动BikeFitting的普及化。相较于红外反光球方案，DeepRide-AI 成本更低、使用更便捷。

产品套装包含（售价：¥3699）

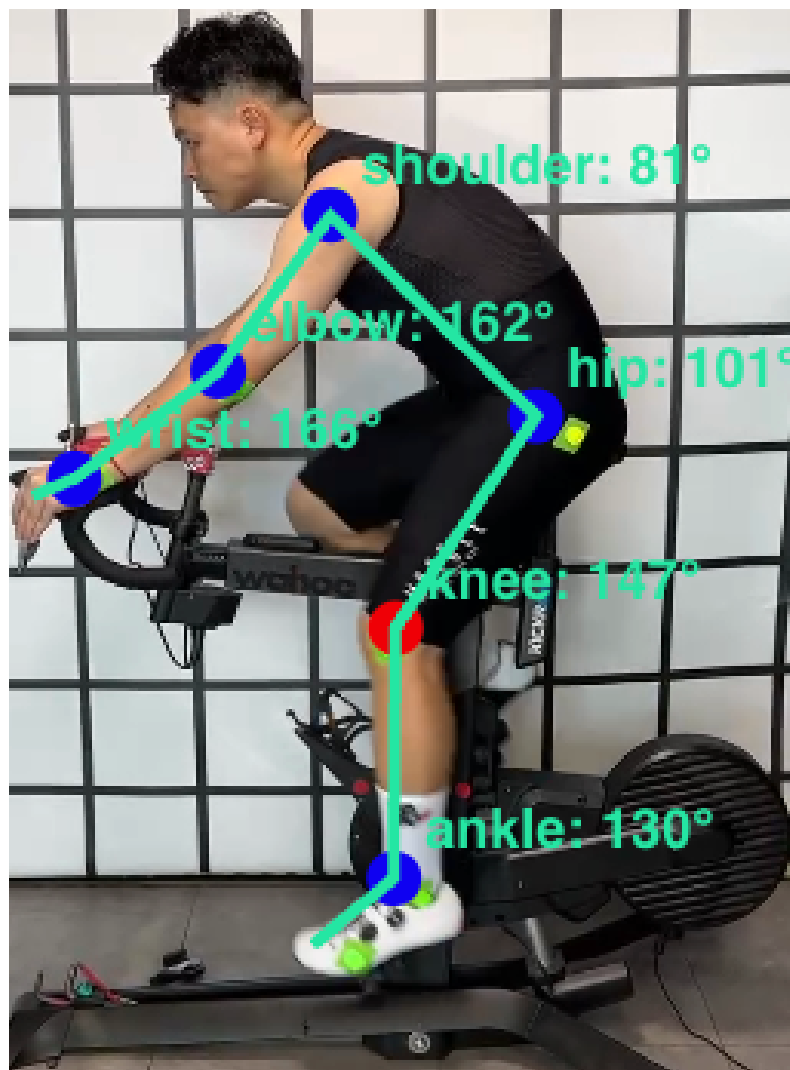
- 结构光 RGBD 相机 × 1
- 双屏激光投线水平仪 × 1
- 三维多功能云台支架 × 1
- 铝合金收纳箱 × 1
- USB A转C口转换器 × 1
- 线上1v1Fitter培训*2课时
- 不限次技术答疑支持
- 软件技术服务 × 1年
- 后续服务（可选，三选一）：
 - 按次支付技术服务费 ¥699/12次
 - 按年支付技术服务费 ¥2000/年
 - 一次性永久买断 ¥8000

以极具竞争力的价格和领先业内的 3D 精确识别能力，DeepRide-AI 致力于为每位骑行者打造科学、高效、零负担的 F·Fitting 体验。

BikeFitting System Features

Motion Capture

Using advanced RGBD depth cameras and our self-developed 3D Skeleton Model, accurately capture human 3D motion trajectories without markers. Real-time data collection automatically translates into clearly displayed motion angles within our analysis system.



Intelligent AI Bike Adjustment

Leveraging extensive professional fitting data, our intelligent system offers precise, automatic bike adjustment recommendations based on real-time rider posture, enabling fitters to easily complete accurate adjustments by following system prompts.



Personalized Posture Templates

Beyond standard industry templates, our system includes diverse posture libraries to cater to various riding styles. It also captures and stores individual posture data for new user customization and rapid matching.

参数模板

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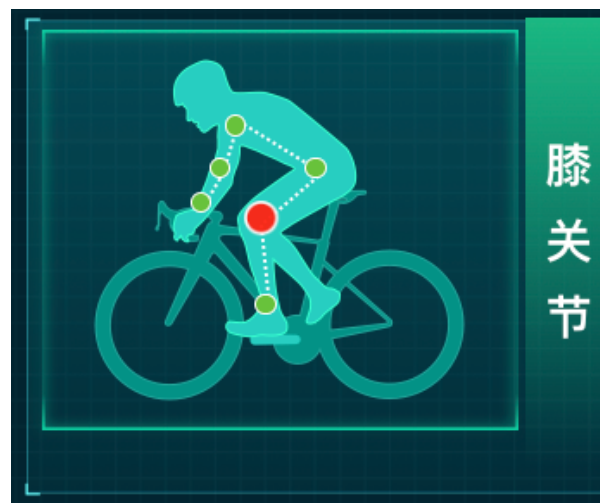
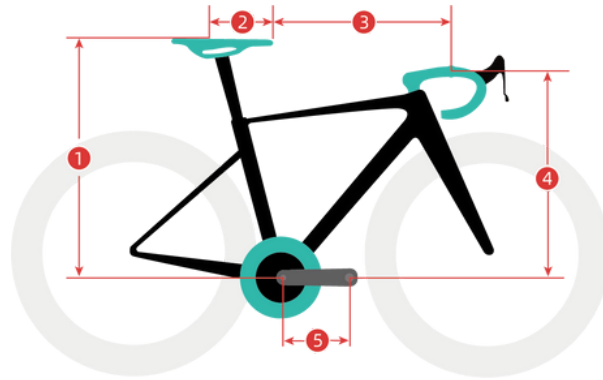
保存

另存为我的模板

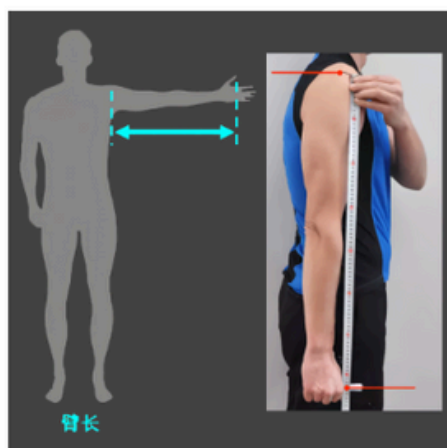
应用当前设置

Visualized Intuitive Guidance

Detailed visual instructions for body measurements, bike measurements, and joint positioning facilitate user-friendly, intuitive interaction, significantly enhancing ease of use.



[4] 请测量臂长：将手臂伸直，测量肱骨大结节到手掌中心长度，可用圆柱体辅助。



臂长 (厘米)

40

Real-Time Dynamic Data Capture

Instantly captures data such as cycling power, torque, and cadence, displaying results clearly on the system interface. Pre- and post-fitting parameter comparisons vividly demonstrate riders' improvements.



Optimal Torque Efficiency Algorithm

Our proprietary intelligent algorithm maximizes power conversion efficiency under the same torque conditions, enabling higher performance with less effort.



Real-Time Posture Aerodynamics Analysis

The system continuously monitors and calculates the rider's aerodynamic drag coefficient, optimizing comfort and minimizing wind resistance to maximize overall cycling efficiency.



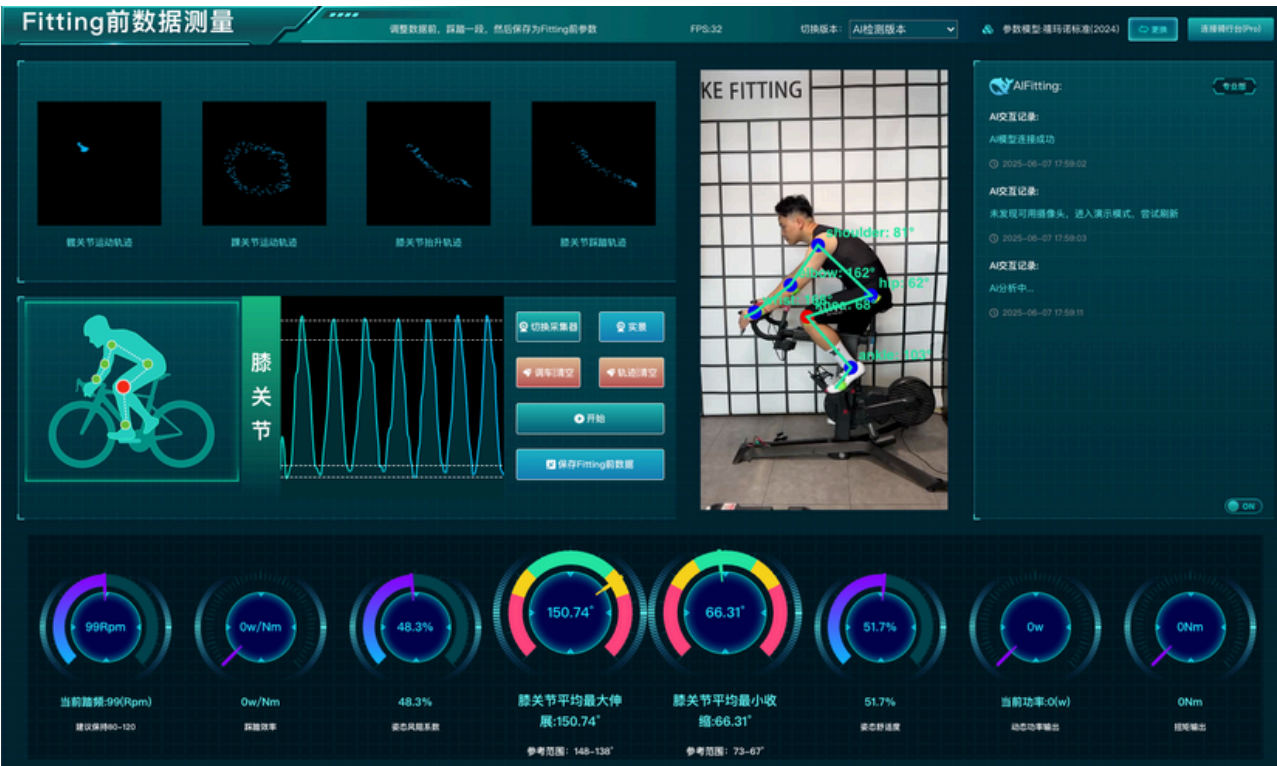
Professional and Elegant Fitting Reports

Our meticulously designed reports comprehensively document rider posture data and optimization outcomes, clearly illustrating quantifiable improvements before and after fitting.



Modernized UI Interface

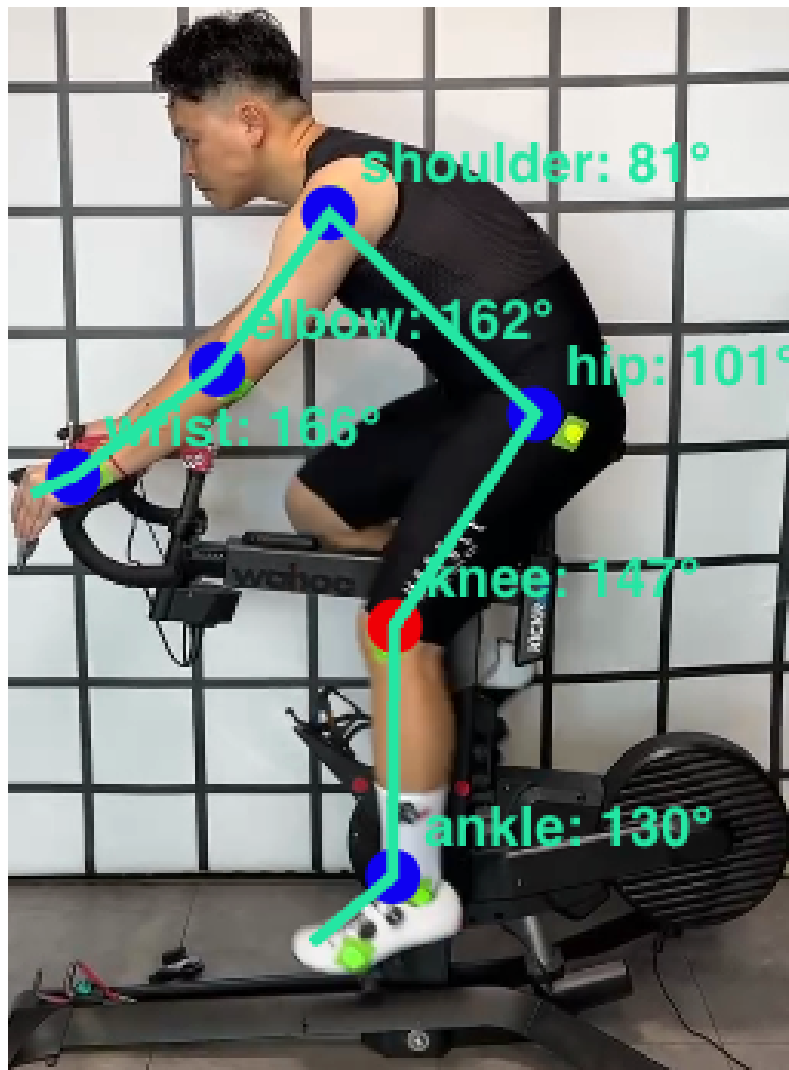
Contrasting traditional single-style interfaces, our BikeFitting system features a modern UI design that blends aesthetics with user-friendly interaction, enhancing overall user satisfaction.



Technical Overview

3D Skeleton Model 3.0

- Refined through continuous real-world store and user data training, our visual model has evolved to outstanding stability.
- Coaxial comparative tests in professional Vicon labs demonstrate joint angle recognition accuracy within $\pm 2^\circ$.



Convenient and Precise Fitting Solution

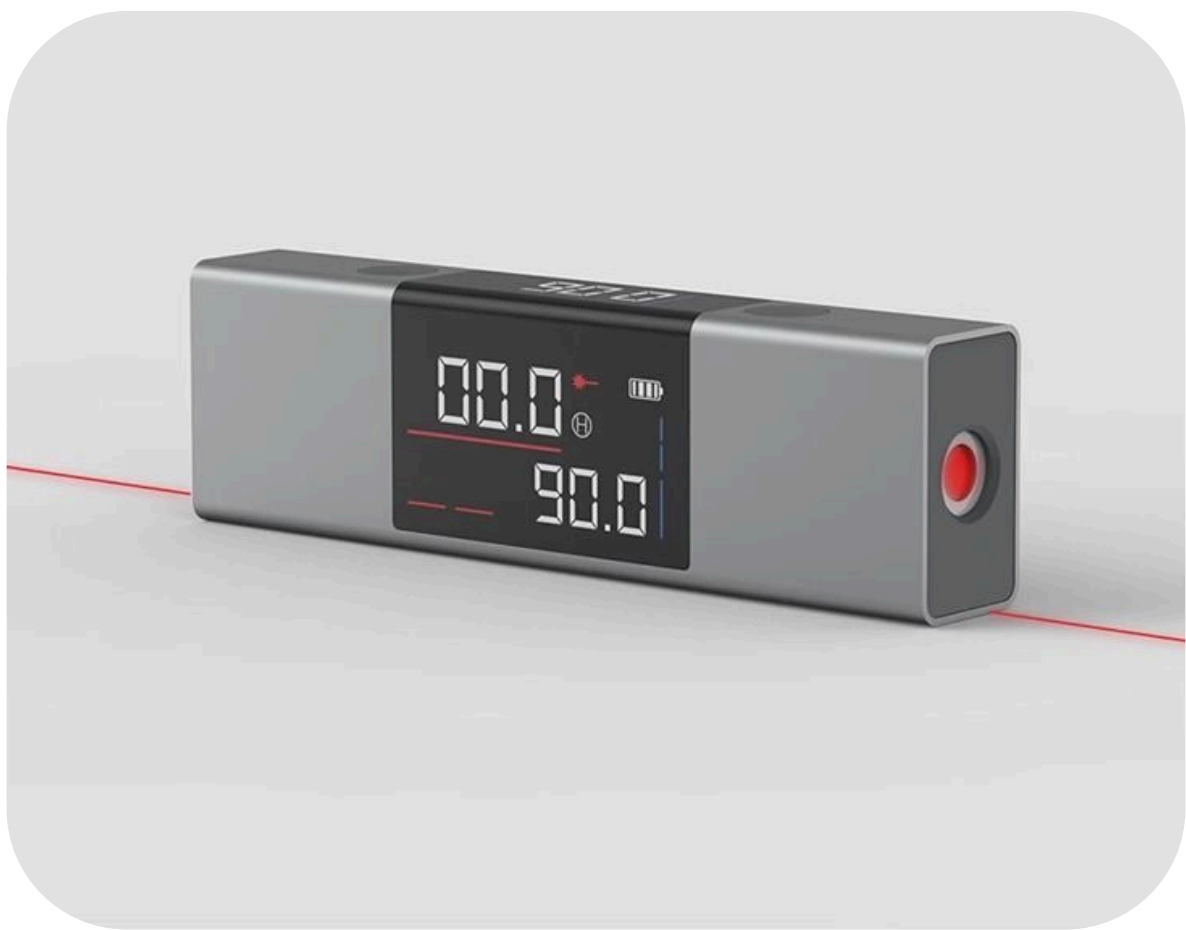
- Integrates computer vision and depth streaming: RGB + Depth data collection via structured light depth camera combined with proprietary frame-merging algorithms to compensate AI depth estimation shortcomings.
- Markerless, high-precision: Achieves accurate 3D joint spatial coordinates without any physical markers, with error rates below 2°.
- Real-time compensation and filtering: Our frame-merging algorithm eliminates depth noise and occlusion interference through multi-frame data fusion, ensuring stable keypoint tracking during dynamic riding.
- Easy setup: Users simply stand in front of the depth camera, with no additional sensors or reflective markers needed. The system initiates and starts data collection and analysis instantly.



These technological advantages ensure DeepRide-AI offers low latency, high precision 3D posture recognition in diverse indoor and outdoor environments, enhancing fitting convenience and reliability.

Dual-Screen Laser Level and Multifunctional Tripod

Includes a dual-screen laser level and multifunctional tripod to precisely align the camera and fitting bike, ensuring accuracy and consistency of data collection.



Affordable Pricing

Our mission is to “Make BikeFitting Easy for Everyone,” breaking traditional expensive monopolies by offering a high-performance, affordable solution. Compared to infrared marker-based methods, DeepRide-AI is more cost-effective and user-friendly.

Product Kit (Price: ¥3699)

- Structured Light RGBD Camera × 1
- 3D Multifunctional Tripod × 1
- Dual-Screen Laser Level × 1
- Aluminum Storage Case × 1
- USB A to C Adapter × 1
- Online 1-on-1 Technician Training × 2 Sessions
- Unlimited Technical Support
- Software Technical Service × 1 Year
- Follow-up Services (Choose One):
 - Pay-per-use Technical Service: ¥699/12 times
 - Annual Technical Service: ¥2000/year
 - Lifetime Technical Service Buyout: ¥8000

With competitive pricing and leading-edge 3D precision recognition capabilities, DeepRide-AI is committed to delivering scientific, efficient, and hassle-free F-Fitting experiences for every rider.